BIRTHS and DEATHS Registered and METEUROLUGY during the Week ending Saturday, March 18, 1870, in the following large Towns:-Temp. Temperature Rain of Air (Fahr.) (Cent.) Fall. Estimated Population middle of the year 187 Persons to an Boroughs, etc. Lowest during (Municipal boundaries for all except London.) 3255469 41.8 2297 1576 59.4 28.9 41.7 5:39 0.58 1.47 London 41 59.4 29.0 43.6 0.57 1.45 125464 13.2 94 6'44 Portsmouth 10.9 36 55 0 28 5 41 0 5.00 0.47 1.19 Norwich 81787 37.0 123 81 173364 Bristol 33 55.5 27.4 39.5 4:17 0.35, 0.89 22.0 58 Wolverhampton 74438 152 55.0 29.0 39.7 48.3 301 4:28 0.63 1.60 378574 Birmingham 50 57.5 25.5 40.2 4.55 0.65 1.65 101367 31.7 74 Leicester 5.00 0.71 1.80 45.3 76 35 58 3 25 1 41 0 Nottingham 90480 376 55.3 31.0 41.1 5.06 0.50 1.27 348 Liverpool 526225 103.0 84.5 286 174 Manchester 379140 . . . 46 57.5 19.9 37.9 0.48 1.22 123851 23.9 94 3.28 Salford 66 54.0 26.6 39.4 4.11 0.36 0.91 Bradford 148030 22.5 82 4.77 0.43 1.09 12.3 201 124 55.0 28.0 40.6 Leeds 266108 5.55 0.59 1.50 11.2 164 102 56 0 27 0 41 4 Sheffield 255247 39 57.0 23.0 39.4 4.11 0.45 1.14 38.0 101 Hull ... 135195 31.5 64 54 Sunderland 103037 0.48 1.22 3.17 Newcastle-on-Tyne 136293 25.5 96 73 55.0 24.0 37.7 103 50.7 32.0 42.8 5.73 0'30 0'76 179944 40-6 141 Edinburgh ... 286 51 5 24 7 35 6 3.66 0.91 2:31 94.3 356 477627 Glasgow 159 62.1 26.2 42.4 5.78 0.92 2.34 Dublin (City, etc.+)
Total of 20 Towns 322321 33.1 0.55 1.40 4.69 in United Kingd'm 7336941 34.4 5190 3606 62.1 19.9 40.4 Paris-Week ending 2576 1889842 98 17 Mar. Berlin-Week ending Mar. 11 800000 Vienna-Week end-622087 68 ing Mar. 11 At the Royal Observatory, Greenwich, the mean reading of the barometer in the week was 29 75 in. The highest was 30 14 in. on Saturday at noon, s estimated or The Medical times and gazette e same annua t period, howmay in some ngham, Leeds f the inhabited nd boroughs, as enumerated at the Census in April next, will probably be available before the middle of the year, and will then be substituted for these estimates.

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Medigal Times and Gazette.

A

JOURNAL OF MEDICAL SCIENCE,

LITERATURE, CRITICISM, AND NEWS.

VOLUME I. FOR 1871.

LONDON:

PUBLISHED BY J. & A. CHURCHILL, 11, NEW BURLINGTON-STREET; and sold by all booksellers.

DOOT.XXI.

LONDON:
PARDON AND BON, FRINTERS,
PATERNOSTER-ROW.

LECTURES. ORIGINAL

LECTURES DELIVERED

IN THE PHYSIOLOGICAL LABORATORY OF UNIVERSITY COLLEGE.

By J. EURDON-SANDERSON, M.D., F.R.S., F.R.C.P., Professor of Practical Physiology.

LECTURE I .- ON LEUCOCYTES.

THE term practical physiology is not a new one to the students of University College. As, however, it is now likely to assume a greater importance than hitherto in Medical studies, it is desirable to define for ourselves, if not for others, the meaning we untend to assign to it.

By physiology we mean the study of the physical and chemical processes which are peculiar to living beings. There are, I think, two senses in which this study can be made practical. It may be practical either as regards its mode or purpose, and I think we are entitled to take the adjective in either sense. Thus, we may understand instruction in practical physiology either to mean instruction in the methods by which the siology either to mean instruction in the methods by which the subject is to be worked at, or in its application to practical ends. Good precedents may be found in support of either de-finition. Thus, "practical physics" has been lately taken by Professor Kohlrausch as the title of a book of exercises in-tended for students in the physical laboratory; while, on the other hand, practical mechanics is always understood to mean the application of mechanics to practical purposes. The weight of evidence is, I think in favour of our understanding prac-tical physiology in the former of these senses, and I am myself very strongly disposed to prefer taking it so; for I am well personaded that, the more we regard physiology as a subject based from first to last on experiment, and the more closely we bring our methods of work into relation with those adopted in the laboratories of chemistry and physics, the better for us and for our science.

But there is another aspect of the question which has an immense importance, and which I desire never to lose sight of, immense importance, and which I desire never to lose sight of, so long as I am occupied in teaching physiology here. My object in life and yours is not to study physiology, but pathogy. I work here, and I want you to work, for the purpose of applying your knowledge to Medicine. The methods of observity fine pathy functions that you learn here are all applicable to diseased functions, and are, indeed, the only met by which our knowledge of disease can be advanced. I should, therefore, like, if it were possible, to make this course accourse not merely of physiological exercises, but of physiology applied to Medicine. At present, this is not practicable, for there is so much for you to learn that is purely physiological, and, so to speak, elementary, and the time is so short, that if we were to go on to the application of our lessons, we should was were or go to the apparation of one resson, we should fail in learning either the one or the other. At a later period, it may be possible to include more pathology in the conrect than I can attempt to do this year. For the present, I will content myself with selecting my subjects of demonstration (for it is obvious that we cannot go through the whole of physiology in thirteen meetings) with reference to their practical bearing, and in teaching you, as far as I can, methods that may actually be used at the bedside. Bear in mind that, for the scientific study of Medicine, there are two work-places the laboratory and the Hospital ward. Hitherto, in this country, the laboratory has been entirely neglected. Medical

from the honorant that he scutters have turned an attention from the theoretical to the practical, so that the number of those who have either brought the products of the wards into the laboratory, or the methods of the laboratory into the wards, is very limited.

It is desirable to improve the existing means of Medical atndy in both these respects-first, by offering to young clinical workers the opportunity of laboratory research; and, secondly, by facilitating the use of our Hospital beds for purely scientific studies—that is, for studies having for their end the increase of Medical knowledge. In other words, we want to make the studies in the laboratory more conducive to practical ends, and the studies in the wards more available for scientific ends, than they have been hitherto; for it is only by this combina-tion of the practical with the scientific, that Medicine, which is a scientific art as well as a practical science, can be advanced.

men have visited the laboratory for learning chemistry, but, generally speaking, both it and its methods have been forgotten from the moment that the student has turned his attention

Vol. I. 1871. No. 1071.

The purpose, therefore, of the present course is the study ad observation of the mechanical and chemical changes which take place in living beings, and particularly those which occur in that one living being whose diseases it is our business to

study, and, if possible, to prevent or cure.

ow, the simplest of the mechanical and chemical changes which constitute life are those which are seen in the individual wance constitute are are those which are seen in the individual structural elements to which we have hitherto been in the habit of giving the name "cell." Following, therefore, the natural method—i.e., taking first that part of the subject which is simplest, and can be best understood without any complete knowledge of the rest-I proceed at once to demonstrate to you the phenomena of cell life in the higher animals. Here, or elsewhere in this course, we shall not occupy onrselves with dead anatomical facts, which you are assumed to be already acquainted with, but shall devote ourselves entirely to living movements. We shall take for study two types of cell or corpuscle—the locomotive and contractile corpuscle, or leucocyte, which will form the subject of the present lecture; and the stationary corpnsele, of which we have the best examples in those of cartilage and of ordinary connective tissue.(a)

OBSERVATION I .- STUDY OF THE LOCOMOTIVE CORPUSCIE IN

THE LIVING STATE.

Living lencocytes may be studied either in tissues or in liquids. For a first view of them I recommend the blood of the newt as the most instructive object. The best method of demonstration is to construct a temporary "cell" of the kind I show you. It consists of a ring of soft party, which rests

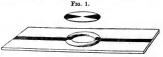


Fig. 1.—A "putty cell" arranged for applying the electrical stimulus to leucocytes or other living structural elements. In addition to the particular professed to infed, while two strips of the same material run from the ends of the side along the middle of the upper surface, in a manner to be described further on.

on the centre of a glass slide. The quantity of blood required is extremely small. It is best taken from the abdominal vein with the aid of a capillary tube like those employed for conand the capturity time like those employed for containing vaccine, by means of which it is to be transferred to the centre of a clean cover-glass sufficiently thin to be used with the highest powers. Then take np the cover-glass with a pair of forceps and invert it over the "cell"—that is, with a part forces and invert it bet a contract, which its edges resting on the wall of soft patty, and the drop of blood hanging from its under surface. In this way the "cell" is converted into an air-tight chamber, in which the hanging drop of blood will evaporate only so far as to saturate the very inconsiderable volume of air which is enclosed. To prevent inconsiderable volume of air which is enclosed. To prevent even this amount of evaporation, and consequent change in the density of the plasma, it is desirable to place a drop of water on the floor of the "cell"—in., on that part of the slide which is enclosed by the putty wall. For, the first lesson to be learned in the art of observing vital phenomena is, that, in so far as possible, all the physical conditions—as for example, those of temperature, modestry, and present even when the conditemperature, mossure, and present e-moint to the same taking the time of observation as they were when the object of research still formed part of the living animal. In the moist chamber we are about to use, the blood is nearly, but not quite, in its natural condition. Its temperature is only slightly in its natural condition. Its temperature is only signify aftered, but the surface of the drop is in contact with air saturated with aqueous vapour, whence, in accordance with the laws of diffusion, the serum will lose density; but as this will take place very slowly, it will not perceptibly interfere with the result.

Let us now examine our blood-drop. The first fact that we observe is that it has coagulated; and if we examine the clot

observe is that it mes we shill find, from its cylindrical contour, we shall find, from its cylindrical contour, we shall find, from its cylindrical contour, we shall have a shall have a shall have a shall have a shall be shall expected the same class, but the directions as districtions given to individual students we reaspend in the laboratory. The caphasinion is recovery, lecause I all the required that course of practical of the same contains the same contains to refer to expect that a course of practical of the same contains to the same contains the same conta

formed, not on the cover glass, but in the capillary tube in which it was first received, and of which it is a cast or mould. Honce we learn that the blood of the amphibia coagulates the vary moment that it is removed from contact with the living



Pro. 2.—Leuscoytes migrating from a blood-clot (700 diam.) diagrammatic,

If we now direct our attention to the edges of the drop, we If we now circe our ascention to the edges of the drop, we shall see that the red clot, in which we can with difficulty make out the contours of the corpuseles, is surrounded by a margin of perfectly transparent liquid (serum), in which float a few coloured blood corpuseles, which have escaped from the meanes of the contracting fibrine. At first you see searcely anything more. Soon, however, you observe little bulgings here and there of hyaline substance, projecting beyond the irregular coast-line of red clot which you have under observation. These projections randid visual projecting beyond the irregular coast-line of red clot which you have under observation. These projections randid visual projections are projections of the contraction of the projection of the contraction of the meshes of the contracting fibrine. At first you see scarcely vation. These projections rapidly increase in size, and soon separate themselves and float free in the clear serum. They separate demostres and not tree in one clear serum. any are amorbid leucocytes. They consist, as you see, of apparently demostres are most officers are most more understanding the service of the parently demostres are most remarkable. If they are observed during the set of migration, it is seen that their corns is always more or less smooth too, it is seen that their control is always more or less most thought the service of the service and rounded on one side, shaggy and irregular on the other; that the rounded surface is directed towards the clot, while the shaggy surface looks away from it; that the shagginess is due to the existence of a number of conical processes, the forms of which, however, are constantly changing. To study these processes well, it is desirable to use a good objective, such as the A of Ross, but even with ordinary powers it is possible to see all that is essential.

As the process of emigration goes on, the number of leuco-eytes outside the edge of the clot of course increases, until at ast it is bordered by a dense layer of leucocytes, among which has it is corructed by a dense layer of leucocytes, among which it is soon seen that, although by far the greater number have the characters above described, there are others which have neither processes nor ameboid movements. Some of these are distinguished from the corrections. distinguished from the others merely by their rounded contour distinguished from the others merely by their rounded contour and by their quiescence; others also differ in respect of the substance of which they consist, and particularly in their being filled with granules which refract light strongly. Of owing inter with granuses when retract ight strongly. Or the latter I have nothing to say, for nothing is positively known; but of the others we shall see that they are in all probability identical with the Protous-like forms, only differing because the majority are in a state of rest.

OBSERVATION II .- LORTET'S EXPERIMENT.

Let us now study the movements of leucocytes by other methods. Next, perhaps, to those which depend on direct observation, there is no experimental proof which can be given more satisfactory than that which was devised some years ago by my friend Professor Lortet, of Lyons. It consists in inserting underneath the skin of a rabbit or other mammalian animal the swimming-bladder of a fish, previously filled with a so-called indifferent fluid—that is, with a fluid which, if it do not contain the materials for the growth of living tissue, does not, at least by its chemical action, interfere with the maintenance of its vital properties. Such a liquid, par excellence, is solution of common salt, of the strength commonly used in laboratories—viz., ? per cent. This bladder, which was inserted in a guinea-pig yesterday, when it contained nothing

hut salt and water, and was perfectly transparent, is now full of nut sait and water, and was perreculy transparent, is now tuil of an opaque, thick liquid, which, as you may easily satisfy your-selves by microscopical examination, is crowded with leuco-cytes. What is the significance of this fact? According to cytes. What is the significance of this fact? According to the heterogenists, it means simply that osmosis has taken place between the liquid inside and that outside of the membrane; occurent the injust meide and that outside of the membrane; it that organic, immediate principles have found their way into the saline solution; and that, in the liquid so altered, leuo-cytes have sprung up spontaneously. The reasons why we do not accept this explanation are—first, that we know of no instance in which a cell or tissue element comes into existence in this way; and secondly, that the lencocytes may be actually seen in thin microscopical sections in bladders which have been seen in sum marroscope, as sections in the section with first own in the previously employed in this experiment, if the membrane is carefully prepared and hardened, insinuating themselves (by means, no doubt, of invisible pores) through the membrane. The experiment may be varied in a number of ways without altering the result, provided that the membrane employed altering the result, provided that the membrane employed

be of such a nature as to allow of diffusion, and the contained liquid indifferent. I regard it as of importance as showing liquid indifferent. I regard it as of importance as showing— first, that the migration of leucocytes is not dependent on dif-ference of pressure between the liquids inside and out, but merely on a property enjoyed by the leucocyte itself; and secondly, that leucocytes are capable of passing along channels so narrow, that they are not merely indistinguishable, either by the unassisted eye or the microscope, but are also impermeable to water; for you will see that, if I take this fresh swimmingbladder and fit it to a tube, and then connect the tube with a ounder and at a to a tuoe, and then connect me who was a water-tap, not a drop will escape, although I subject its inner surface to a pressure of several feet of water, which I may gradually increase until I burst the membrane. Again, if I gradually increase until Jours the memorano. Again, it a reverse the conditions, and place saline solution containing leucocytes in the bladder, and, after immersing it in similar liquids not containing any corpuscles, subject the bladder to pressure, no leucocytes will pass from the one liquid to the other. The reason, of course, is that the leucocytes which, when they passed in, were alive, have now been for some time dead.

OBSERVATION III .- PROFESSOR VON RECELINGHAUSEN'S EXPERIMENT.

The next experiment is one which derives, I might almost asy, a historical interest from its being the one which led von Recklinghausen but is decovery of the sameboid movements of the Recklinghausen but is decovery of the sameboid movements of the Recklinghausen but is supported by the Recklinghausen between the Recklinghausen many of the notions we at present entertain as to the nature

of cell life are mostly founded on the facts recorded in it. In this frog the cornea has been removed and placed in one of the subcutaneous lymphatic sacs. At the same time that the cornea was introduced into the lymph sac, five to ten drops of water containing aniline-blue in granules of microscopical fineness were injected with a syringe. The lymph sac, which in the frog is lined with an epithelial membrane very similar to that of the pleuro-peritoneal cavity, has become inflamed, and consequently distended, with a liquid containing in-numerable leucocytes—in other words, pus corpuscles. I now remove the cornea with the fine forceps from the cavity in which it has been contained. The cornea is still to the naked eye nearly as transparent as it was before transportation to its new position; but if we place it under the microscope, and compare it with another cornea just taken from the living eye. you will see that the cornea corpuscles, which in the living cornes are absolutely invisible, even with the best microscope, are here distinct, showing that the cornea, although it looks transparent, is not really so, and that the substance of the corpuscles, which ought to affect light in exactly the same degreepuscess, which ought to ancer ingur in exacuty the same expects as the intermediary substance, is somewhat turbid. For the purpose of our experiment, this fact is of great value. What we want to see is whether the leucocytes, which exist in such numbers in the liquid contents of the lymph sac, show any tendency to pass into the cornea and permeate its substance. We know that the cornes is porous in a sense much more com-plote than the membrane of the swimming-bladder of a fish, for the "corneal tubes" (b) may be injected. Do the leucocytes penetrate into these cavities? It is easy to satisfy one-eff that there do. If the cornes is placed with the convex surface downthey do. If the cornea is placed with its convex surface downwards, and the microscope focussed so as to see first the epi-

(b) Bowman: Lectures on the l'arts concerned in the Operations on the Eye. London. 1849.

thelium of the anterior surface, and then the various layers of stellate corpuscles, it is easy to determine, as regards each stratum of corneal tissue in succession, whether it contains new elements; for the corpuscles are characteristic in their form, and so different from anything else that they cannot possibly be mistaken. In such an examination of the cornea as we have before us, it is easy to assure oneself that at every level there are leucocytes, and, consequently, that these must have migrated into it from the surrounding liquid. The proof is rendered much more satisfactory by the previous injection of the aniline. The purpose of this injection is to put a mark, as it were, on the leucocytes which have floated free in the liquid, and so enable the observer to recognise them in the cornea. If the aniline granules are sufficiently small, the leucocytes take them into their interior just in the same way as amobie do, and of course carry them along with themselves in their intra-corneal migration. The fact that leucocytes, each containing one or two aniline granules, exist in the very centre of the cornea, once seen, is very convincing. To derive, however, all the instruction it is calculated to convey, you must spend hours over it, and repeat it several times. Nothing can be more interesting than to observe the peculiar form which the "wandering corpuscies" assume as they squeeze their way, often appearing in contact with the proper elements, along the interstices of the tissue.

Observation IV.—Effects of Temperature on Mammalian Leucocytes.

The next observations we have to make will have for their object the illustration of the changes which occur in leucocytes when they are subjected to a temperature different from that which naturally exists in the bodies of warm-blooded animals. The vital phenomena we have been studying continue (as has already been said) only so long as the cell is surrounded by the conditions which are natural to it. To illustrate this, all that is necessary is to repeat the observation made at the out-set on the blood of the newt, only substituting for it man-mains blood. Let us, then, place a drop of human blood into the moist cell just in the same way as before. The blood congulates, though not so repully; in the surrounting liquid. we see a few leucocytes. One or two of them show indistinct amœboid movements; but before we have had time to learn their nature the movement ceases, and the leucocytes assume what I may call the conventional spheroidal form in which they are commonly represented in the books. In short, they are dead; the reason being that, for the maintenance of the life of mammalian leucocytes, a temperature nearly approaching to that of the body is absolutely necessary. To meet this requirement, various contrivances have been devised, all of requirement, various contrivances have been devined, and or which have for their purpose to maintain the slage of the microscope at a temperature of 98° to 100° Fahr. By this means the object-glass is kept a little below the normal temperature; for it is found that, while the slightest excess of temperature is highly dangerous to the life of a cell, it will bear without any injury several degrees of defect

The country of the co

closed with a glass plate below, and it is easy to lay on the upper opening a second cover-glass, on the under surface of which you have placed your drop of blood, as before. The stage has

Fro. 3.

Fig. 3.—Prof. Stricker's warm stage. In the vessel a not the water is maintained at a constant level (indicated by the dotted line) and at leading temperature, a supply their, a water tuber, it, bulk bedding to the stage; it, tube by which this but water that the district of the stage is the stage of th

been already regulated as regards temperature, and the thermometer stands at for Fahr. Let us now see what happens, however, are not see metitive lencey-tex, the motions of which, however, are not see much like those of amobies as of the moners with which Mr. Huxley has of late made us sequainted. If the temperature were allowed to fall, their movements would become more singish, but would not cease, experiment of the second of the



F10 3 BIS.



Fig. 3 siz.—a. An amorboid leurocyte; b, a dead leurocyte; c, a leurocyte which, after having been acted on by the electric stimulus, has begun to resume its movements.

To illustrate this subject further, let us return to our first experiment. Here is a party cell into which a drop of new's ablood was placed yesterday. First you see that the margin of the clot is beest with gray-looking bodies, which, although they present an appearance so different from that which they presented before, you have no difficulty in recognising as dead leucocytes. Though here and that they were once amorbiod, airmost soutine, at they are in such numbers that they form a grey border sufficiently wide to be seen with the naked eye, or at all events with a lens, around the clot. OBSERVATION V.—Action of the Electrical Stimulus on Leucocytes.

As in physics we assume that for every movement or change there is an exciting cause, so also in physiology living matter is no more capable than dead matter of moving of itself. The word spontaneous, as applied to the origin of movement or change, has no very intelligible meaning, and cannot be used unless you put before it the adverb "apparently." When a must contract, we understand that something distributions of the contract of the stimular to the contract of the contract of the contract of the stimular. It is our ignorance of the nature of this stimular which constitutes the main difference between the case of the eleccycle and that of the muscle. If we call the one spontaneous and the other irrito-contractile, we do little more than conceal our ignorance by the use of long little more than conceal our ignorance by the use of long

There are two sources from which we may derive material assistance in our attempt to understand the movements of leucocytes, viz.: from the comparison of their movements with those of the lowest forms of independent animal life the america and momen; and from the observation of the

effects of stimuli.

Of all stimulis, partly because we are veil acquainted with it a ction on tother kinds of contractile aulaence, and partly because we can other kinds of contractile aulaence, and partly because we can other kinds of contractile aulaence, and partly because we can other kinds of contractile aulaence, and partly because we can corpused, we again have recourse to the party call, which we arrange in such a manner that the induced current from the secondary coil of an induction apparatus may be caused to pass through the drop of blood on the under surface of the pass through the drop of blood on the under surface of the caps and the corregions. The way in which this is accomplished will be best auraface of the glass slip is seen to be partly covered by two strips of the thinnest infuli, each of which extends from one of the ends of the slide towards the ring of patty in the centre. Each of the infuli strips is of sufficient length to reach over the partly ring without extending into the space with the partly ring without extending into the space within its shown in the sketch. The points of three strips are separated at the centre of the cover-glass by an interval of one-twentyfifth of an inch. It will be readily understood that when the cover is brought down upon the partly ring the tapparatus, and a liquid it placed in the way before directed between the two points on the nader auraface of the cover-glass, the induced currents will pass through it alternately in opposite and the paparatus, and a liquid it placed in the ways before directed between the two points on the nader auraface of the cover-glass, the induced currents will pass through it alternately in opposite in describe it to you before we proceed to the experiments.

periment.

The instrument you see represented in the diagram; but for our present purpose it is necessary to modify the ordinary arrangement—first, by depressing the lower of the screws, f, so that neither may be in contact with the horizontal spring, h;

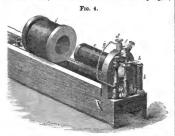
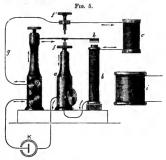


Fig. 4.—Drawing of Dubois-Reymond's "Schlittenmagnetelectromotor," the induction apparatus employed. The reference letters are the same as in Fig. 6.

secondly, by removing the collateral wire, g. (in Fig. 5, it is shown already removed.)



For b_s —Place an showing the arrangement for interrupting the primary b_s —Place an showing the primary probability of the primary b_s —Place and b_s —Place are the direction taken by the current when b_s —Place appears in well in the ordinary way. The current term the copper end of the lattery divides at b_s into two branches, which next again in f^* . One of these is only the primary b_s —Place are the primary collection of the primary collection magnet, b_s whence it returns to the battery through a_s .

X.B. And the continues are original exception Fig. 5, which is expicifrom Fort. Bosen that a Ederrical isolates. In that sugments of the expicafrom Fort. Bosen that a Ederrical isolates, in that the upper should be in constant, the lower out of creates, with the between laying, A. This being the exact iron, A. is drawn down and the current broken, to be immediately restored by the return of the spiring to its former condition.

Further, a Dubois's key is interposed in the course of the induced current between the secondary coil and the microscope, the only purpose of which is to enable the experimenter to close or one in the secondary current at will.

or open the secondary current at will.

The apparatus being thus arranged, a leucocyte in the field of the microscope is selected for observation, while an assistant presses with the forefinger of one hand the spring, A, against rest continuous, and then, with the other hand, close the rest continuous, and then, with the other hand, close the secondary circuit with the key. When it is desired to excite the selected corpurele, the assistant, by depressing the spring breaks the primary current, consequently on which a direct induced current of momentary duration and high tension passes through the coil. The assistant still keeping the spring down, opens the secondary circuit, while the observer takes note of the changes produced in the corpusele by the shock to which it has been subjected. The reason why this plan of operating is adopted will be explained in next leture.

MELBOURNE HOSPITAL.—At the weekly meeting held on October 18 last, Dr. Barker presented a letter from a majority of the henovary Medical staff, asking that prescription tickets might be placed over the beds in the Hospital, to the state of the held of the he

ORIGINAL COMMUNICATIONS. ___

SHARK-BITES IN THE HOOGHLEY.

By J. FAYRER, M.D., C.S.I., F.R.S.E., Professor of Surgery, and Senior Surgeon, Medical College Hospital,

In the Medical Times and Gazette of June 20, 1868, I gave an account of a case of shark-bite, which had occurred in Calcutta, and had come under my care in the Medical College Hospital. Such cases, I regret to say, occur annually, and they will continue to do so until some simple measures, such as might easily be taken, are resorted to for their prevention.

The particular shark (carcharras Gangeticus) is a fierce and bold creature; he dashes in among the crowds bathing at the ghat, and though he seldom -if ever, under these circumstances-succeeds in carrying off his prey, yet inflicts a danger-

ous, often a mortal, wound.

These accidents appear to have become more common of late years, since the practice of throwing bodies into the river has been discontinued, and those of the poorer chases have been entirely burned at the municipal charge. Near the great burning-ghâts, where the sharks no doubt used to find their prey in abundance, in the half, or only very partially, burned bodies then thrown into the river, but where they no longer find them as they are now burned, the accidents most frequently occur, and one or two bathing-ghâts near that spot have furnished more victims than the others. The water at this time of the year (for it is chiefly in the months of April and May, when the river contains much salt water, that the accidents occur) being unusually middy, the sharks are not seen as they glide in among the legs of the bathers, and it is only when the shricks and sudden immersion of one of their fellow-bathers give the alarm, that they are aware that the enemy is in their midst. The noise, the splashing, and shouting, as well as other aid given to the sufferer, save him from being carried off, but not from a severe-if, indeed, not a mortal-wound.

As I have before noticed, no precantions are taken to prevent this annual loss of several lives. The mere staking off a portion of the ghât, as is done in the Soonderbuns, against alligators would be sufficient; but simple as the expedient is, it is not resorted to. The people go on batting at the same places perfectly unconcerned. Indeed, shortly after a person has been bitten the ghât is again fully occupied with bathers. Every year during these two months cases occur, and they are generally brought to the Medical College Hospital. I give the notes of four other cases, two slight and two more severe,

as they are not uninteresting in a Surgical point of view.

Case 1.—H. E. S., aged 39, a Hindoo trader, living near
Hatkoiah Ghât, admitted on May 18 with four irregular, lacerated Hatkolan chat, admittee on May i swith nour irregular, increase, wounds of a triangular form on the right ham, two being opposite the other two. They were about three-quarters of an inch deep. He said that when up to his middle bathing at the ghat with a number of others, he was suddenly seized and as suddenly released. He made his way out of the water and found the four bleeding wounds. They were dressed simply, and the next morning he left the Hospital for his home, and probably did well, as we heard no more of him. He had a fortunate escape, for it is seldom that a man escapes out of a

shark's grip with such slight injury.

Case 2.—M., aged 40, a Hindoo confectioner, residing at Case 2.—M., aged 40, a filladoo confectioner, resulting as Soobah Bagar, was admitted on May 11 with three wounds on the anterior aspect of the left thigh. They were situated about three inches above the knee; one was large, above two inches long, the others were near it and were somewhat smaller. They were lacerated, irregular wounds, as though the flesh had been torn by a sharp-pointed instrument. He was seized when bathing, as in the first case. The water about three feet deep and muddy, he did not see the shark, and was only aware when pulled off his legs that the voracious creature was near him. In this, as in the former case, the shark did not retain its hold, as the man was immediately rescued by two friends. After admission the wounds were dressed with carbolic oil. He had slight fever and the margins of the wounds sloughed; but they ultimately took on a healthy action, and on July 6 he was discharged quite recovered.

Case 3.-B., aged 40, an Ooryah coolie, residing at Koomertolla, Calcutta, was admitted on June 1, with an extensive wound of his right foot and leg. About half an hour before admission, he was bathing with others at the ghât, standing mid-deep in the muddy Hooghley water, when he was suddenly

seized and drawn down by a shark. He was caught and seized and drawn down by a shark. He was caught and rescued by his friends, who pulled him out of the shark a jaw, and brought him, much exhausted by loss of blood and shock, to the Hooptial. The foot was nearly torn away at the anki-joint, and the soft parts about the foot and leg extensively lacerated—those on the leg extending high put he limb. One tooth had made an isolated, deep-punctured wound in the east of the log. Homediate amputation was performed. Hor stilled under chloroform, and bore the operation, which was performed an inch below the tubercle of the tibia, well. The incisions were made in the method I usually adopt, and there was very little blood lost. Three ligatures only were required—a very uncommon occurrence in an amputation in Calcutta, where, owing to profuse bleeding from numerous small vessels, many ligatures are generally needed. Nothing remarkable occurred during the progress of the ease, and he was discharged cured

on September 21, with a wooden leg.

Case 4.—C., aged 40, a Hindoo shopkeeper of Ultadinghee,
near Calcutta, was admitted on June 20 with a severe injury accurate, was anotaticed on June 20 with a severe injury of the left arm, caused by a shark-bite. He was bathing, as usual, at one of the ghâts, and was stooping immersed in the water, when the creature seized him by the arm, extensively lacerating and stripping the soft parts from the limb. The bones were not actually exposed, nor were the joints opened, but the limb had been so much disorganised that gangrene had set in. It appears that the shark seized him twice-first by the forearm, and then, again, immediately by the arm. The injury had been inflicted the day before admission. Owing to the extensive injury and the consequent gangrene, his condition was very low. Immediate amputation was performed high up, within three inches of the head of the bone, by double flaps. In this case ten ligatures were required. He suffered subsequently from irritative fever, the formation of abscesses in the stump and about the bone, but the bone itself remained sound. Ultimately, the wound cicatrised, and he was discharged on September 21, with a good stump. Calcutta.

NOTES OF A CASE OF PEMPHIGUS.

IN WHICH THE DISEASE WAS CONTRACTED BY INOCULATION FROM AN EBUPTION UPON THE TEATS OF A COW.(8)

By EDWARD BALLARD, M.D., Medical Officer of Health for Islington.

J. S., AGED 21, of a good constitution, is servant to a gentleman in Islington, who keeps four cows, three of Alderney and one of Ayrshire breed. They had foot and mouth disease several of Ayranc creed. I key had foot and mouth disease several mushs ago, but had long ago quite recovered. There was no tancously of stacked with an cruption agon the noders and teats, which did not affect their general health, and insted a few days. The cruption, from the description, was vesicular, the blobs being oval, and about the size of a haricot bean, or smaller. On August 16, J. S. gave a physic-ball to a horse which had a cold, and on withdrawing his hand was slightly bitten and a cold, and on withdrawing his hand was slightly bitten on the dorsum of the right hand, over the distal part of the metacarpal bone of the index-finger. The skin was broken, and blood flowed. The man put on no protective covering, but the same day proceeded to milk the diseased cows. About a week after (following the man's account), the bitten spot exhibited a bieb upon it, and a few blebs of a similar character appeared upon the skin just around it. In the course of another week, or later, when these blebs were fading, a fresh another week, or later, when these once were assume, a area and large crop of similar blebs appeared upon the two forearms and the dorsum of both hands. There must have been a hundred of them altogether, of varying sizes, from that of a hundred of them attogrener, or varying sizes, from the as a split pea to that of a shilling, some so closes as to have become confinent. They contained at first clear fluid, which subsequently became opaque, and, from their purple colour, evidently mixed with blood. A few appeared upon the knees, legs, and buttocks. He now felt ill; there was much inflammatory swelling, vomiting (it is said) of some bloody matter, and fever; but from first to last there was no rigor. When the biebs broke and discharged, there was a faint odour from the surface. On September 6 he consulted a Medical man for the first time. and Mr. Pointer, of Seymour-street, Euston-square, saw him. This was on a Tuesday. On the Sunday before, he had been very iil, and, it is said, passed some blood from the bowels, and was giddy. As this crop of blebs began to shrivel, a fresh crop (a) Paper read before the Association of Medical Officers of Health on ecomber 17, 1870.

appeared upon the face and neck, and a few on the hairy scalp; and with this the face became swollen, as in small-pox, and the eyes closed. The man's mouth and throat also presented blebs, the tongue was much swollen, and there was difficulty in Bloody matter flowed from the nose. On September 30, Mr. Pointer observed over the whole surface of the trunk and extremities and between the blebs a red papular eruption, with tingling, which lasted a few days and disappeared, leaving no marks. He vomited a good deal seared, leaving no marks. He vomited a good deal m September 29 to October 2, and could not keep food on his stomach; the vomited matters were not seen, urine is said to have been very red, as if it contained blood, urine is said to have been very red, as if it contained blood, but it was not preserved for examination. All day on Ot-ober I he was complaining of great pain in the lower part of the abdomen and right like region, and the next day he passed two very fetid stools, said to be "as black as your lat." Mr. Tointer aws one stool, which he reparted as "melonic." This great with great relief, and since then there were the stool of the part of the stool of the part of the stool of the little or no cross the view of the stool of the part of the stool of the little or no cough throughout the illness

October 8 .- I saw him for the first time to-day. bed, but his strength was not materially reduced, although he says he has lost flesh during his illness. He was now convalescent. Several of the blebs on the arms were large, and flat, and shrivelling, still containing fluid, and of a purplish colour; others were represented only by flat, irregular, broken-looking omers were represented only by nat, irregular, broken-looking scabs, partly looking like dry paste, and partly brown, and con-taining dried blood. They had the same characters everywhere. In some places the situation of the blebs was occupied by super-ficial sores or excertations, cracked, and bleeding. Nothing observably amiss upon the mucous membrane of mouth and throat. Urine clear, natural, and free from albumen. No fever. On examining his arms, I found two good vaccine cicatrices. Says he has never had chancre or any form of venereal disease.

The only pain complained of now was a rheumatic or muscular pain in left side of neck and left shoulder.

Mr. Pointer, who took me to see the case, called it "pemphi-The term is not inapplicable, inasmnch as Hebra asserts that "no other disease is attended with the formation of bulke over a large surface and in successive outbreaks." That author, however, makes no mention of the hemorrhages and gastro-intestinal disturbances which attended this case. Gastroenterie disturbance, however, is not rare in the course of pemphigus, but I have met with no account of the disease which mentions hemorrhage from the bowels; neither have I been able to lay my hand on any details of a case in which pemphigus-an eruption of bulke in crops-has originated in inoculation from the cow. Pemphigus in the human subject is not held to be a contagious or inoculable disease; yet the history of this case seems to point distinctly to such an origin. It is to be regretted that no veterinary Surgeon saw the cows from whom the malady was contracted. This man was out and about, a fortnight after my visit.

On November 26 he called on me to show himself. The site of the blebs was indicated by stains, not depressed, and of dusky red colonr. On the neck and arms the surface of these stains was dotted with very minute, white, elevated points, apparently containing a puriform fluid. He says they itch occasionally.

Knowing the thorough acquaintance with the cruptive diseases of cows possessed by Mr. Ceely, of Aylesbury, I sent him the above notes, begging for any information upon the subject which his extensive experience could furnish. In his reply he says: "I have read with very great interest your notes of the case of the man infected from a vesicular cruption on the teats and adders of some cows. The local and constitutional effects therein described are severer than I have ever witnessed, though I have often seen them severe. I have no doubt the disease in the cows was of the character we often witness here in our dairies. It generally originates in one cow, and is rapidly communicated to others by the same milker, and from one or other animal to the milker's hands. Here it has been sometimes designated the 'white or blister pock;' but most commonly it is still confounded with the true vaccine. It is the disease which for a time perplexed Jenner in his earlier inquiries, when he found persons supposed to have been infected by the so-called cow-pox really unprotected. He eventually solved the mystery, and ascertained the true nature of both. According to my own observations, this pemphigoid, vesicular, or bullous eruption is the result of congestion of the mamma, however induced. It is especially frequent in heifers-animals with their first calf-arising from rapid distension of the organ, or neglected or imperfect manipulation; in the cow, from congestion induced by similar

causes, estarrh, or fever. The degree of acridity of the fluid' contents of the vesicles seems to be mainly influenced by the intensity of the congestion, the inflammation resulting being of the diffused or erysipelatous form. But when the local and constitutional symptoms in the animal are mild, or the latter unobservable, the effects on man are subject to much variety. In drawings 2, 3, and 4 (referring to some beautiful coloured drawings forwarded) you will see different degrees of local severity. In No. 5 the effects, both local and constitutional, were severe, although the same fluid, inoculated at the same were evere, amongs the same mud, inoculated at the same time on the downs of my own hand, produced the normal man as the same mud, and the same mud, and the same man as the promptly induced. In less than twenty-four borns the inoculated part indicates perfect infection, and the disease runs rapidly through a dairy. In this respect—the rapidity of its progress and the shortness of its duration—it differs from true vaccinia, which, I need not say, is more formal, tardy, and prolonged. The local inflammation of the organ attending the former is comparatively trivial, while of the latter it is most commonly severe and enduring, as well as destructive. The course of the disease is the same as in man. Both cowsand man are repeatedly susceptible of the infection. I have successfully inoculated myself on the dorsum of the hand five times, without any constitutional disturbance on either occasion, the local affection subsiding in a week.

The exanthemata of the cow are very interesting, as many of them closely resemble those of man. They are papular, squamous, vesicular, bullous, pustular, etc. I send you a few drawings of some of those I have observed. The verrucous vesicle is very enrious. On the occasion of this drawing, the disease extended by infection, in the course of three weeks, through a small dairy, giving rise to no constitutional disturbance in the animals, and but slight irritation to the hands of the milkers. I have no doubt that the fluid of the vesicles and bulke of aphtha epizoctica might, by careful inoculation, and bulke of aphthe episootes might, by careful inculation, be communicated to man. It is certainly a contagious disease become on the contagious disease and the contagious contagious disease the contagious disease and the contagious dis arising from catarrhal inflammatory and febrile diseases, in-

cluding scarlatina.

Referring now to the drawings which Mr. Ceely kindly forwarded to me, and especially to those alluded to above :-No. 2 was a drawing of the "white or blister pock" on the hand of a milker, in the mild form and in the declining stage. There are pocks represented upon the hand, each with a central spot are posses represented upon the hand, each with a central spot of commencing incrustation, and about the full size of a vaccine vesicle. Mr. Ceely has appended the memorandum that, "but for the exploration of the vesicle with the lancet, and the date of the orupiton, an inexperienced observer might be in doubt as to its character." No. 3, again, represents a casual inoculation of a milker's hand. The more purple colour and rotundity of some of those vesicles approach more nearly to those in my case, but the size was not nearly so great.
No. 4 also represents a casual infection. The bulke, as represented in the drawing, were oval, and about the size of a haricot bean; on the palmar surface of the index finger is represented oear; on the paimar surface to the index intger is represented one long blister-looking vesicle, or what might rather be called a vesication, extending the whole length of the two proximal phalanges, the whole hand being swollen and reddened. This case resembled mine in so far that the bulks were not confined to the hand, but appeared also on the face and body, with much fever and constitutional disturbance. No. 5 shows the results of inoculation from No. 4 on the arm of a man. vesicles are about the size of vaccine vesicles, and have a central dark spot, as if from early central commencing incrustacentral dark spot, as it from early central consular pocks in No. 2. No. 7 shows the same disease on the cow, in which the fluid the vesicles was bloody. The size is nearer that of the vesicles in my case, and, except that the colouring is deeper, they resemble them more closely than those in any other of the drawings.

apparently of commencing incrustation, is shown. He says the pocks" are distinguished by their size and structure. They are mere non-cellular elevations of the epidermis, and may be emptied entirely, or in great part, by puncturing them. They

break out in variable number upon the udder and teats, in the form of little vesicles, which within treenty-forn hour attain the size of a pea, bean, or wild cherry, and the circumference of a kreuzer of c-ferueure piece; have neither arcola nor central depression, but are rather hemispherical or acuminated, have a white or yellowish colour, and either contain a thin, yellowish along the content seem to be specified and or thick, mucous, creamy pas. They readily burst; but under other circumstances their contents seem to be specified and or their circumstances their contents seem to be specified and or their contents are more than the contents and like full bladders, out the content of the contents and the content of the content of

Contradact this view.

Jenner, in his "Further Observations on the Variole Vaccione" (p. 0), thus describes a case of infection from the blistererror of the control of the period of the period of the control

3 or 19 years of age, who lived with a farmer, who kept about

13 or 19 years of age, who lived with a farmer, who kept about

13 or 19 years of age, who lived with a farmer, who kept about

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13 or 19 years of age, who lived with a farmer, who kept about

13 or 19 years of age, who lived with a farmer, who kept about

14 or the period of the grid of the period of the grid of the disease was communicated to the grid. The rest of the

14 days after the three above specified had these cruptions on the

15 mipples and udders, and even a fart the grid is hand became sore.

15 the others who were engaged in milking, although they

16 milked the cows indiscriminately, received no injury. On the

17 injury of each of the grid is hands there appeared several large

18 white blisters, she supposes about three or four one of finger,

18 injury of the period o

"As this malady was called the cow-pox, and recorded as such in the mind of the patient, she became regardless of the small-pox; but on being exposed to it some years after, she

was infected, and had a full burthen.

"Now, had any one conversant with the habits of the disease heard this history, they would have had no hesistation in gronouncing it a case of spurious cow-pox—considering its doriation in the numerous bilisters which appeared on the girl's hands; their termination without alceration; its not proving more generally contiguous at the farm, either saming the eattle more generally contiguous at the farm, either saming the cattle patient fift me general indispatition, although there was so great a number of resident.

"This is, perhaps, the most deceptions form in which an errpitive disease can be communicated from the cow and it certainly requires some attention in discriminating it. The most perfect criterion by which the judgment may be guided its, perhaps, hat adopted by those who attend infected cattic. These which listers on the nipples, key say, were set into the fixely perf like those which are commonly of a bluish cast, and which constitute the true cow-per, but that they affect the shin only, quickly set all reads, and contactly so in section of the contactly so in section only, quickly set also seaks, and are not nearly so in-

Jenner refers such spurious eruptions to change from poor to nutritious diet and over-distension of the udder, and goes

"Whether a disease generated in this way has the power of affecting the constitution in any peculiar manner. I cannot presume positively to determine. It has been conjectured to have been a cause of the true cow-yox, though my inquiries have not led me to adopt this supposition in any one instance; on whe contrary. I have known milkers affected by it, but always found that an affection thus induced left the system as susceptible of the small-pox as before."

It has appeared to me not inappropriate, when describing a case so unique in its severity as this one, to quote thus largely from observers who have distinguished the eruption. My case

appears to give a completeness to the history of the disease in man which it did not possess before, and to mark the affinities of the malady as it occurs in the cow.

OBSERVATIONS ON THE VARIATION IN THE PREVALENCE OF VENEREAL AFFECTIONS IN THIS COUNTRY.

By ROBERT LAWSON, Inspector-General of Hospitals.

Ar a time when the operation of the Contagious Diseases Act, has led to so much discussion, and such various estimates have been formed of its influence on the frequency of venereal affections, it may prove both interesting and useful to point out a feature in their prevalence which appears to have been completely overslocked hitherto. I allude to a variation in the number of attacks of these affections from year to year, not confined to limited localities, but experienced over great areas, and presenting the characters of an epidemic increase as much as the varying outbreaks of senaratina or small-pox.

The statistical returns of diseases in the army afford the only evidence on this subject, so far as I am ware, embracing a sufficient number of years, and among a class of men under nearly the same conditions, suitable for inclidating this question. Of these, the admissions among the eavalry at home from the beginning of 1830, to March 31, 1847, and among the foot-guards from April 1, 1837, to March 31, 1847, and available, and those for the various arms of the service on the home station from 1800 to 1886 inclusive. In the first-named there are little variation in their strength, or in the average ages of their men, and the stations they occupied in Great Britain and Tread were nearly the same throughout, though the various regiments served at them in succession. The foot-guards also presented on great change in numbers or ages, but they were almost all quartered in, or in the vicinity of, London. The admission for veneracel complaints, therefore, amongst the foot-guards may be taken to indicate the frequency most of those affections among the classes with whom they associated in and atout London; while those amongst the evarity represent their frequency among the same classes in other parts of this country

Primary venereal affections have usually been returned in the array under the designations of syphilar primities, ulcraws posis non syphiliticum, and generales, or their English equivalents. No fixed rule has been followed in distinguishing the two former, and the practice has varied so much with different Medical officers, that the number of them respectively, as given the relative frequency of the two forms, but, taken together, they show with certainty the varying prevalence of primary venereal sores for the periods mentioned. As to genorrhous, no change has occurred, and explanation here is not required.

Table 1., showing the admissions per 1000 of mean strength for primary venereal sores, secondary syphilis, and generates among the foot-guards and early serving at home, each year for the period ending 1847.

		F	OOT-GUARD	8.	CAVALEY.					
Years.	Primary sores.		Secondary syphilis,	Gonor-	Primary sores.	Secondary syphilis.	Gonor-			
1830		_	-	-	71.6	7'5	59-9			
1831	***	-	-		96.5	9.6	63.3			
1832	***				79-9	8.9	83.2			
1533	***	-	****		95'2	8.0	56'9			
1834		-	-	-	60 5	7.9	46'9			
1635	***	-	-		74-9	6.6	49'0			
1836-37		4.00			63.1	57	55.7			
1837-38		106.8	13.1	58.9	62 1	6.2	68.2			
1638-39		148.9	8-0	39.5	73-7	5.1	77.5			
1639-40		126.5	9.6	94 9	82-0	6.4	74.4			
1840-41		133.7	4:6	45.6	60.1	7.7	60.6			
1841-42		153.5	9.4	63 8	69-9	7.7	6579			
1842-43		15018	11-2	76.5	78:3	80	69.7			
1843-44		217:3	17:4	45'5	108.1	10.6	61.3			
1844-45		134.9	15.6	36.6	99.8	8.7	76 1			
1845-48	***	139.9	21.9	37.1	79.4	10.6	66.8			
1846-47		101.8	14.8	49.5	83.9	13-9	63.8			
Janeral m	-	140-9	13:4	54.8	79.6	8:1	69'4			

On comparing the the ratios for primary sores among the cavalry, it is found there was a great rise in 1831, a considerable fall in 1832, and another rise in 1833, after which the admissions declined to 1836-37. In 1838, they again rose, culminated in 1839-49, and the following year reached their lowest point. In 1841-42, another rise commenced, which recached the highest point in 1840-44, and then fell till 1846-46. Among the foot-guards, there was a large increase in 1838-39 over the previous year, but in 1839-40 the ratio among them fell considerably, though, in the country generally, as shown by the savalry, the increase went on into the following year, but in 1839-40 the ratio of the property of the country generally until 1841-42, though the maximum was reached in the same year as in London. Goneryhea presented considerable variation in frequency as well, but it was more irregular, and neither its maximum or invited and neither the maximum or invited the property of the property

Table II., showing the millesimal ratios of the admissions from primary cenereal sores, secondary syphilis, and gonorrhaa each year, among the troops of all arms, on the home station, from 1860 to 1868 inclusive.

Years.		Pri	nary sores.	Secondary syphilis.	Gonorrhoua.
1860		***	112.5	27.9	106:7
1861	411	***	110.3	30.0	102.3
1862			96:5	33.4	115 4
1863	***	***	95'1	33-9	100.5
1864	24.2	***	78.8	3078	69.1
1865	***	***	74.9	25'5	86'8
11496		***	68.3	21.1	83.7
1867	***	***	88.8	28.1	115.9
1866		***	81.8	31.6	117.0

From this it is clear the frequency of primary servs diminished gradually from 1800 to 1806, since which time it increased in the previous years, embrace the diminish 1806, like those for the previous years, embrace the diminish 1806, like those for the Process of the Contagious Diseases Act then came into force, the ratio for these years are really lower than they should have been, had a similar increase taken place at these stations to what was experienced throughout the country.

A feature was observed in the rise which took place between 1865 and 1867 which deserves special notice, and which stallies with the remark made above as to the indications of a rise having become perceptible at London a year before it was experienced elsewhere to the north and west. This will be apparent from the following facts:—

Table III., shorcing the millesimal ratios of admissions for primary veneral sores among the troops at the principal military stations in Great Britain and Ireland, where the Contagious Diseases Act was not in force, for the wars 1865, 1866, and 1867.

	tions				1965.	1866.	1867.
Dover		***	***	***	67	90	132
Shorneliffe	***	***	***	***	68	87	42
Canterbury		***	***	***	77	117	119
Colchester	***		***	***	107	170	145
	***	***			97	79	74
			Cavalry		50	88	45
	oot-(duare	la `	***	162	178	171
Isle of Wig	tht	***	***		82	11	59
Winchester		***	***		72	46	52
Pembroke !	Dock	***	***		83	31	28
Mancheste	D		417	***	127	92	177
Preston					85	75	87
Edinburgh			***		112	56	63
Cork	***	***	***	***	86	49	72
Fermoy			***		44	36	70
Limerick		***	414	***	71	48	117
Curragh	+49	***	***	***	97	77	104
Dubliin	***	***	***	***	150	126	129
Belfast			***	***	46	74	89

These numbers show that the admissions at the first six stations, from London eastward, with the exception of Shorncilife and Warley, were considerably more numerous in 1866 than the previous year; while at all those to the west and north of London the ratios were lower in 1866 than in 1865, with the exception of Belfast; but, in 1867, they all showed an increase over 1886, except Pembroke Dock.

The obvious inference from these data is, that in addition to simple exposure to contagion, which has hitherto been the only recognised source of venereal affections, there must be a factor of more general operation, which determines the greater prevalence of primary sores from time to time over a very large area; and, so far as the evidence detailed above goes, the influence of this seems to have become apparent in the southcast of England, in every case, the year before it was perceived in the remainder of Great Britain and in Ireiand. That searcely to have been expected, but it is existence here having been established, there can be no doubt that it exists elsewhere as well. The military returns for foreign stations, however,

are not so well adapted for bringing out this peculiarity as those for the troops at home, for the frequent changes of regiments, and the greater variation in the ages of the men, introduce elements of variation which mask the ordinary pergress of the disease, while their influence cannot be eliminated advecated is contained in the remarks on the report of the Sanitary Commission of Bengal for 1809, in the Medical Times and Gastite of 24th December (p. 728), where it is stated that while the admissions from the whole class of veneral affections among the European troops in 1867 amounted to 169 per per 1000, and that the increase was not confined to a few stations, but embraced the whole country.

It may be asked whether the epidemic cause influences the "apphilitio" sores, to the exclusion of the "non-infecting," or vice even; or whether it influences both. It has been meationed above that the separation of these forms was not made to the separation of the section was not made to the section of the section was not expected as a stiefactory evidence as to their relative frequency. More trustworthy information may be derived from the admissions for secondary syphilis, though even these present peculiarities which require elucidation. Thus, while the foot-puzzds, in the ten years ending 1847, had an there were only 13% for secondary syphilis; and the cavalry; in the seventeen years ending 1847, had ratios of 79-6 and 8-1 respectively, while from 1800 to 1886 the whole troops on the home station, with an average ratio of admissions not very much greater than that of the cavalry previous to 1847, had the foot-puzzds and cavalry, for the period terminating in 1888, be taken by themselves, the average for the fourner 1ss-for venereal sores 153-1 per 1000, and for secondary syphilis 33-2; while for the cavalry the ratios are 101-6 and 34' respectively, while for the cavalry the ratios are 101-6 and 34' respectively, showing, as with the troops generally, a greatly increased while the originary score are not much more previous.

while the primary score are not much more prevalent. Three reasons may be assigned for this increase in the case-of constitutional syphilis, viz.; 1st, a more accurate diagnosis of late years than formerly; 2rd, a change in treatment in the primary forms of the disease; 2rd, an actual increase in the numbers of infecting scores. There has certainly been a greater discrimination exercised by Medical ofton extrainty account for a portion, though but a small one, of the increase. account for a portion, though but a small one, of the increase. The treatment of the primary sores has altered considerably; mercury is less often used, and the dieting in the majority of instances has been greatly increased. The exact influence of these changes there is no means of separating from the general result, though it is right to notice them here. Making every allowance for the united effects of these two causes, however, there is still evidence that there is considerable variation in the frequency of the attacks of constitutional syphilis from year to year. Thus, in 1860 (Table II.), the millesimal ratio of admissions among the whole force at home was 27.9; it rose to 33.4 in 1862, and remained much the same in 1863, after which it fell gradually to 21.1 in 1866, coincident with the minimum of fell gradually to 211 in 1000, consciuent with the manufacture admissions for primary sores. In 1867 the increase in the primary sores was accompanied by a very decided advance in the admissions for constitutional syphilis, which became still the admissions for constitutional symbol to the admission of the admissions for constitutional symbol to the admission of more numerous the following year. The same peculiarity is found in Table I.: the millesimal ratio of admissions for constitutional syphilis among the cavalry in 1830 was 7.5, in 1831 it rose to 9.6, from which it descended year by year with great rose to 96, from which it descended year by year with great regularity to 5'n in 1856-37; next year there was a slight in-crease, which disappeared in 1838-39, when the ratio was 5'l only; this gradually rose to 100 in 1843-44; the following year there was a retrogression, but in 1845-46 it again rose to its previous height, and in 1846-47 reached 139, the highest point among the cavalry in the seventeen years. In the foot-guards in London the fluctuations were much the same, the ratio of admissions was considerably lower in 1838-39 than the pre-vious year; there was a slight increase in 1839-40, followed by a minimum in 1840-41; after this the cases because more numerous each year till 1843-44, and, as in the cavalry, fell off alightly in 1844-45, and attained their maximum in 1845-46, but sores), while in the cavalry, with an increase in the latter, the constitutional cases increased also. These variations, though for the most part small, having extended over several years with remarkable regularity, and those among the cavalry. scattered over Great Britain and Ireland coinciding with the corresponding facts for the foot-guards in London, leave no doubt that they are not attributable to chance, but must have taken place in virtue of a general law, to which all local and personal causes were subordinated.

It is clear that as there were considerable fluctuations in the attacks of secondary syphilis from year to year, the primary scree which gave rise to these must have varied in frequency also; but, inasmuch as the secondary cases did not observe any fixed or nearly constant ratio to the primary sores, the any fixed or nearly constant ratio to the primary sorres, the aggregate of these must include a varying proportion of both infecting and non-infecting sorres, so that both forms are in-fluenced by the general factor which has been referred to above. It will be seen in Tables I, and II, that the maximum of constitutional cases does not always occur in the same year with that of primary sores, but frequently later; this is no doubt partly due to men who have contracted the primary disease in one year coming under treatment for the constitutional affection the following year, or from a few presenting themselves there a second time; but it would also show that, with a rapid increase in the number of primary sores, the non-infecting form was relatively more frequent than at a later period in the cycle, when the infecting formed a larger per-centage of the whole. This point, however, requires further investigation.

CLINICAL OBSERVATIONS ON RICKETS (a)

By C. CURRIE RITCHIE, M.D., Physician to the Hulme Dispensary, Manchester,

INFARCY is pre-eminently the period of acute diseases; and these, in a large majority of instances, owe their great fatality to the fact that their natural course is interfered with by some diathetic influence

The forr great diatheses of childhood are the strumous, the tubercular, the rachitic, and the syphilitic. Of these, "Rickets tuercular, the racinite, and the symmitte. Of these, "streets is, without question, the most common, the most important, and in its effects the most fatal, of the diseases which exclasively affects children." (Jenner.) The fact that this disease is not confined to any one class of society, but pervades the wealthier as well as the humbler ranks—that it is one of the most easily preventible of diseases-and that it can generally be readily cured, if seen in the early stages-makes any addition to our knowledge on the subject of value.

The characteristic anatomical changes in a well-marked case of rickets are, doubtless, familiar to all; but I wish now to refer chiefly to the earliest indications, to the least-known phenomena, and to the treatment of the disease from a Medical

point of view.

The observations embodied in the following remarks were made chiefly on children who came under my care as ontpatients at the Hulme Dispensary, followed up, in some cases, at their homes, together with a few cases in private practice; and extend over the year between November, 1869, and November, 1870.

Speaking of the frequency of rickets among the wealthy classes of Manchester, according to his own observation, Dr. Merci(b) says: "I firmly believe that the said proportion (17 out of 36, or, roughly, I in 5) cannot be much above the real rate, when applied to the whole of the wealthy ranks." And he was informed by a friend, who saw large anmbers of sick children at one of the dispensaries, that he calculated that 20 to 25 per cent. of all the children he saw there presented some

rachitic symptoms.

With the view of testing the accuracy of these observations, I took notice of all the children who were brought to the Hulme Dispensary during the year just named, observing the number of rickety children, and the age at which they first came under observation. The following table shows the result :--

Under	6 mo	nth	8					5	remaie.
Betwee	en 6 a	and	91	months				8	10
- 21	9	29	12	99				28	19
***	12		18	**	٠			36	24
**	18	:	24	99				27	22
Third	year							16	9
Fourth	year							5	4
Fifth y	rear				٠	٠	*	3	1
							•	128	91

(a) Heing the substance of a paper read at a meeting of the Manchester Medical Society, December, 1870.
 (b) "Disorders of Infantile Development and Rickets." London. 1885.

Total number of rickety children under 5 years 219 Total number of children under 5 years of age

From this table it will be seen that, out of 120 canurus unac-5 years of age, 219 were rickety—as nearly as possible 30 per cent.; and, taking the total number of children under 2 years numbers would have been considerably increased had care not been taken to exclude all those children who were re-admitted under my care during the course of the year; in some cases,

unior my care during the course of the year; in some cases.

These statistics do not materially differ from those collected by observers elsewhere. Thus, Ritter(c) found 31 per cent. of the children under 5 years of age rickety, in the Medical Poliklink at Prague; and Dr. Goe found that 303 per cent. of the children under 2 years of age were rickety who came under his observation at the Hospital for Sick Children in London, during the year 1867.(d) As many of these children had been under treatment before I saw them, some of them for months, it is impossible with accuracy to determine the exact time of their becoming rickety; but I think we have ample grounds for concluding with Vogel and Ritter that rickets seldom begins later than the first year of life. True, many cases appear to do so; but my own experience leads me to agree with Dr. Gee,(e) who says that late rickets is almost always that form "which takes on, late, a tendency to increase; the children become slightly rickety under 12 months, yet they cut a few teeth, and are able to stand, or even to walk; then, some time in the second year, the rickets increases, and the children are taken off their feet.

It is maintained by Virchow and others that rickets may be congenital; and Gnerin states that he has observed three cases in which this affection was present at the time of birth. No English observer, however, has seen such a case, and most writers disbelieve the existence of congenital rickets. How, then, does rickets begin ! After a series of symptoms common to various disorders of nutrition, three phenomena are usually observed, which, as Sir William Jenner (f) says, "at once mark the nature of the disease, render the diagnosis easy, and enable us to predicate that the bone affection will show itself." These as to predicted that the some ancestion win sown teem. Access are—profuse perspiration, especially at night, about the head and neck, sometimes also of the upper part of the chest; desire on the part of the child to lie cool at night, evinced by his constantly throwing off the bed-clothes; general tenderness over the body.

The perspiration is frequently the cause of Medical aid being summoned: it is so profuse that it will run down the child's face in streams, and soak the pillow. In one case which I saw, the sweating was entirely confined to the right side of the head, neck, and chest, extending to a level with the fourth rib. The osseous deformity in this case was most marked on the left side, and there was visible pulsation of the right carotid artery, with fulness of the superficial veins of the entire scalp. When sweating occurs in other infantile derangements, it is not of this local character, and comes on usually after there is great impairment of the child's health. Thus, in struma or tubercu-losis in children, sweating is frequently observed. The general tossi in children, sweating is requestly observed. In general tenderness and pains of rickets are attributed by Ritter to the result of emaciation, and Vogel considers them periosteal; my own experience points to their being most frequently muscular. The muscles may be wasted and flabby, although there is no apparent emaciation; and if examined under the microscope, their fibres are seen to be pale and soft, almost transparent,

having the transverse strice very feebly marked; there is no trace of fatty degeneration. trace of Intty degeneration.

It is an interesting point of contrast with tuberculosis, that whereas in rickets the muscles may apparently be of their normal size and form, while the patient is unable to walk or to support himself, in tuberculosis they may not be above half the size, and yet the child is as active as if in health.

As the disease advances, this muscular debility increases, so that the patient may be unable to turn in bed, or raise himself. He lies perfectly motionless, perhaps, if undisturbed, for hours together.

In some cases these "predicatory" symptoms are but slightly marked; under such circumstances, before the appearance of the bone-changes, it is sometimes very difficult to distinguish rickets from tuberculosis. In two cases which came under my notice, it would have been impossible, but for careful observa-

(c) Ibid.
(f) "A Series of Three Lectures on Rickets," Med. Times and Gas. 1960

⁽e) "Die Pathologie und Therapie der Rachitis." Berl. 1863. (d) "St. Bartholomew's Hospital Reports," vol. iv. 1868.

tion of the temperature, to make this distinction. The subsequent appearance of osseous deformity confirmed the diagnosis.

What is the carliest discoverable alteration of the bones in rachitic children ? The opinion advanced by Guérin, (g) that rickets commences in the lower extremities, then attacks the pelvis, extending finally to the trunk, head, and arms, has now been demonstrated to be erroneous. Vogel(h) credits Elsasser with having pointed out the earliest sign of rickets in his discovery, in 1843, of eranio-tabes, or soft occiput. This condition, however prevalent in Germany, is rarely met with in this country. It consists of a number of concavities or depressions, scattered over the whole of the posterior surface of the head; they are thinned portions of the occipital bone, about the size of a lentil to that of a bean, and feel "like cartridge paper," or "like an inflated dried bladder." I have never met with a I have never met with a case presenting this peculiarity during three years' attention to this subject.

My own observation leads me to consider beading of the ribs -the appearance presented by their enlarged ends under the skin-the first unequivocal sign of rickety bone-change. This appearance so attracted the attention of Boot, one of the three Physicians originally commissioned to investigate this disease, about the year 1645, that he proposed the name "tabes pectorea," before Glisson named it "rachitis." Beading of the ribs may be found, according to Dr. Gee,(i) "occasionally in infants of only three or four weeks old; at three or four months of age, rickets is really common." The earliest age at which I have met with beading of the ribs is three months; in that case, the mother first observed sweating of the child's head and

neck about a fortnight before I saw her.

The only other change in the osseous system that I would now refer to is the delay in the closure of the anterior fontanelle. Normally, this takes place before the completion of the second year; but, in rickets, it often remains wide open for three or four years. I have seen it still unclosed at five years of age. Often, after it is completely closed, a slight flattening may be felt over it, indicating late closure.

An important diagnostic mark between the open, rickety fontanelle and the expanded, hydrocephalic skull consists in the fact that in hydrocephalus the fontanelle is elevated, more open, and, if much accumulation of fluid, the bones are more widely separated at the sutures, which are not bounded by a thickened osseous ridge; there is, too, greater disproportion between the skull and the face, the enlargement being more regularly globular; while in rickets, the fontanelle is invariably depressed, partly from the debility, and partly from osseous thickening of its boundaries. These conditions may, however, co-exist.

A blowing murmur heard over the anterior fontanelle, synchronous with the arterial pulse, has been set down as one of the signs of rickets. I heard it in about one in three cases where the anterior fontanelle was open. This, taken in connection with the fact that it is sometimes heard where no rickets exists, renders it utterly useless as a diagnostic sign.

Sir William Jenner has well shown that rickets is infinitely the most common cause of late dentition, which may be pre-sent when the rickety deformity is very slight. This effect on dentition is peculiar to rickets, among diseases of nutrition. I have seen several cases where, at three years of age, only six toeth had appeared. Sometimes toeth which have already appeared become black, and decay, owing, as Vogel has shown, to sufficient development of the enamel; in other cases, as in a lad of 5, who came under my care, the whole of the teeth drop out undecayed.

This modification of dentition is due to the arrested growth so characteristic of rickets, and which continues after the termiso characteristic of rickets, and which continues after the estimation of the constitutional disease; hence the stanted stature of those who have been rickety. Wishing to trace, if possible, rickety deformities into adult life, I examined 133 persons above fifteen years of age who applied consecutively for advice at the Dispensary, 17 of whom were found to present unmis-

takable traces of rachitic deformity.

Not having seen any observations on the temperature of rickety children, and being at a loss as to the diagnosis between rickets and tuberculosis in two cases, as I have previously stated, I was led to observe the morning and evening temperastated, I was let us observe the morning and evening tempera-tures of eleven children for cight days. These were all cases of uncomplicated rickets, and were taken by the same ther-mometer, the bulb of which was retained in the rectum for five minutes at each observation. The ages of the children

ranged between ten months and three years, and the morning temperatures were all taken after breakfust, between 9 and 10 a.m., and the evening temperatures all between 9 and 10 p.m.. The respirations and pulses were not taken, as they are sub-The respirations and puises were not taken, as they are sun-ject to so many variations in children, and, besides, they seem to bear no definite relation to the normal temperature. The mean result of the eighty-eight morning observations thus obtained was 99·13: Fahr., and of the eighty-eight evening observations 97.44° Fabr.

On comparing these results with the average results of the normal temperature of children by Roger(k) and Finlayson,(l) we find that the morning temperature is lower in rickets by 0.54° (after adding to his axillary temperature, 0.7°, the difference between rectal and axillary temperature, according to the former, and by 0.28° according to the latter observer. We also find that, as in the normal, there is a varying fall in theevening temperature in rickets—a most important diagnostic from tuberculosis, in which, as has been shown by Ringer(m) and others, there is not only no evening fall, but there is a positive evening rise. This may be either higher, relatively, than the morning temperature, which may be nearly normal, or both may be high, with evening exacerbations, or both may be high, with exacerbations not confined to any one portion of the day.

Diminution of temperature is a diagnostic mark, also, of certain convulsive disorders in children—notably laryngismus stridulus. It is to Elsasser, I believe, that we are indebted for having pointed out the intimate connexion that exists between laryngismus and rickets. It is also noticed by Merei, Jenner, Gee, and others. In a series of careful observations by Dr. Gee,(n) on 102 cases of convulsions in children, he found that 24 cases were dependent on cerebral disease, 17 on various general causes, such as acute specific diseases, scarlet fever, and so forth, and of the remaining 61, 56 were in rickety children. The same observer found 48 out of 50 cases of larrngismus, of which he took notes, to be "unquestionably rickety." These facts bear obviously on the question of

So frequent is the co-existence of bronchial entarrh with rickets, that one observer, Friedleben,(o) thought it was the fore-runner and special cause of rickets, through an altered condition of the blood, produced by disturbed respiration. The frightful mortality of bronchitis, hooping-cough, etc., among rickety children is due to the mechanical resistance to the entrance of air into the vesicular structure of the lung, afforded by the mucus accumulated in the bronchial tubes, which the child is unable to expel from weakened inspiratory power. This is due to two causes—to the enfeebled muscles of inspiration, and to the softened ribs. Hence, also, the invariable occurrence in a marked case of rickets of pulmonary collapse and emphysems. The collapse is directly consequent on the recession of the ribs during inspiration, and occurs in a sort of groove along the anterior margins of the lungs; its situation grouve along the anterior margins of the lungs; its situation corresponds to the inward projection of the ribs at their junc-tion with the cartilages. This groove separates the healthy lung from its emphysematous free margin, produced by the thrusting forward of the sternum during inspiration. "Whitepatches," such as we find on the adult visceral pericardium, are also present in many cases of rickets (Jenucr). They are found a little above the apex of the left ventricle, where it impinges against the fifth rib, and the junction of its thickened internal end with its cartilage. If there be great deformity, these "white patches" will sometimes be found also on the will sometimes be found also on the

these. "white patches" will sometimes be found nas on the spienn. They consist of fibron tissue, and nmy le smooth or spien. They consist of fibron tissue, and nmy le smooth or goes far to confirm the "attrition theory" of their formation. The only other symptom of rickets I would now notice is the condition of the viscera. So long ago as the days of Whistler and Gilsson, the condition of the liver and spien had attracted notice; little attention had been given to the subject subsequently, however, till Sir William Jenner published his oft-quoted Lectures. He pointed out the changes which take place in the spleen and lymphatic glands specially, but also in the liver and kidneys. He showed that, just as in the osseous system, we never find a single bone rickety and all the rest unaffected, so with the glandular system: when affected, the whole system is involved. He described the enlargement which often takes place as being due to a kind of albuminoid infiltration,

 ⁽g) "Mémoire aur le Rachitis." Paris. 1857.
 h) "Lehrbuch der Kinderkrankheiten." Erlang. 1863.

 ⁽a) "Archir Ghu de Médicine." de neire, tome v., p. 294.
 (i) Gaspar-Scheitzl der sork, Terbenty, 1899.
 (m) "On the Temperature of the Body as a means of Diagnosis in Philaissis and Teberculosis." London. 1866.
 (n) "St. Bartholomer's Touyital Heyorit," vol. iii. 1867.
 (o) "New Sydenham Society Van Book." 1981. T. 739.

which, however, differed from the lardaceous or amyloid infiltration of Virchow in the absence of the characteristic reaction with iodine and sulphnric acid. Sometimes the splenic and glandular affection precedes the bone-changes, which may be slight, while the gland affection is well marked.

More recent observations on this subject by Dr. Dickinson(p) show that the supposed albuminoid infiltration is really not an infiltration, but a mere irregularity of growth, in which hypertrophy of the fibroid or epithehal elements takes place. This is conjoined with a deficiency in the amount of earthy constituents, showing the oneness of the affection by the strictly analogous condition which is found in the bones-viz., increased cell structure (preparatory to the process of ossification) and deficiency of earthy sults. In the liver, Glisson's capsule, and in the spleen the trabecular element is hypertrophied. Unlike the lastlaceous disease, this rickety hypertrophy seems to produce no interference with any function of the affected glands, and under favourable circumstances yields readily to treatment.

Dr. Dickinson further points out that rickety organs lack the peculiar bacony translucency which characterises lardaceous infiltration, and that the bloodvessels seem to be unaffected in He considers this condition peculiar to childhood,

especially to the first four years of life.

The following case, in which the spleen, liver, and probably kidneys, were affected, shows how amenable it is to treatment:— A female child, aged 3½ years, was brought to me on January 2, 1870, suffering from abdominal enlargement. She had been reared on the bottle till the age of nine months, then got farinaceous food in addition; had walked at eighteen months, but was now unable to walk; had got teeth very early, but now all the teeth in the upper jaw were decayed down to the crown; had complained for many months of feeling tired on the least exertion; could not bear to be touched; perspired very much about the head, and tossed off the bed-clothes. Her aspect is that of a well-nourished child, but she is intensely ansemic-her cheeks being of the colour of a tallow candle, and her gums, lips, and bucal mucous membrane having only the faintest tinge of pink; has well-marked beading of the ribs, and a slight degree of "pigeon-breast." Abdomen prominent; museles of abdominal wall flabby; spleen enlarged—its outline can be traced through the parietes—it extends from just within the edge of the lateral aspect of the thorax for three and three-quarter inches downwards and inwards, its inner border almost tonching the umbilicus; liver also enlarged. cortex's amoust concening too unmuleus; iver also enlarged, extending bolow the ribs for two inches—edge feels harder and sharper to the touch than normal. Her appetite is poor—will est nothing but eggs; motions "like dirly soon—suds, and have a fearfully bad smell;" passes very little water (only about three onnees in the last twenty-four hours): it contains

no albumen or excess of phosphates.

She continued under treatment till August 13, at which time, nearly seven and a half months after she first came under observation, I note: "She has now become fat and rosy; has gained two pounds in weight within the last month. considerably diminished; is now almost entirely out of reach,

and can just be felt close under the ribs. Liver extends only about half an inch below the ribs."

When the spleen is enlarged, we shall most readily detect it. by placing the fingers of the right hand just below the twelfth rib and outside the mass of the lumbar muscles, while the fingers of the left hand are placed exactly opposite, pressure being made between them. If the spleen is not felt, it may be considered not to be onlarged, provided the hands have been

properly applied.

The increase of the white corpuscles in the blood is comparatively slight in rickety spleen, as Dr. Dickinson pointed

ont; this I was enabled to verify in the above case

The treatment of rickets requires as its essential condition the restoration of healthy nutrition-hence diet and hygienic measures are of the utmost importance. Regular feeding at stated intervals; abundance of milk with a fourth part of lime water, and the addition of a teaspoonful or two of cream to the half-pint; as the child gets older, a little beef-tea with the hall-plant; as one cannot gees order, a fattle occer-tea watur bread, eggs, or light puddings; if potatoes be given, they must be fluely mashed with a little mest gravy; after eighteen or twenty menths, meat twice a day, or strong soon in small quantities—these are the chief dictetio indications. Daily tepid challybeate or all water baths, plenty of warm

woollen clothing, warm but well ventilated rooms, and as much dry open air (bracing sea-air to be preferred) as practicable, are points which will at once suggest themselves.

(p) Medico-Chirurgical Transactions, vol. lii. 1869.

As to strictly medicinal treatment, it has for some time been the stereotyped phrase in our text-books-" There is no specific remedy for rickets." At one time it was thought that rickets was simply a condition in which there was a deficiency of phosphate of lime in the system, and accordingly that and other lime salts were largely administered for the specific pur-pose of supplying its alleged deficiency in the system.

A more recent effort in this direction is the introduction, by Dr. Sansom, of the sulpho-carbolate of calcium as a remedy in 277. Caussons, or the suppne-earvointe or caccium as a remedy in rickets. The direct compounds of carbolic acid having been found to be "very unstable, unpleasant, and for the most part insoluble," a new series of compounds of basic oxides of the metals with sulpho-carbolic acid—formed by the mixture of equivalents of sulphuric and carbolic acids—has been procured by Dr. Sansom. He says he has used "the calcium salt (which is one of the most soluble known) in rickets with uniformly good results, in doses of three to five grains, or more. With the view of testing the therapeutic value of this salt, I have used it for the treatment of rickets in twenty-six cases, for periods varying between six weeks and five and a half months. I generally began with three-grain doses, increasing by degrees up to ten grains, and have ordered it in the form of

powder, with a little magnesia, or with sugar.

I regret to say, however, that I have not met with the sneceasful results obtained by Dr. Sanson, as in only two cases did any real benefit seem to follow the administration of the sulpho-carbolate, and in these the hygienic and dietetic conditions were so glaringly vitiated, that I am convinced the improvement was justly due, not to the drug, but to the

improved regimen.

Cod-liver oil is one of our most important remedies. Its efficacy is greatly enhanced by a combination with iron, as I have repeatedly verified, by experimenting with a series of cases under similar conditions. The phosphate of iron is the preparation which I have found most benefit from; it may be preparation which I have found most cenent from; it may be given either as the simple syrup, or, as I have found most useful, in the form of Parrish's compound syrup of the phos-phates; in private practice, I have found children take it remarkably well with the cod-liver oil.

Of course, before administering cod-liver oil and iron, we must see that the motions have become healthy and the tongue clean. I have usually employed Sir William Jenner's plan for this purpose viz., to give a single dose of an aperient, such as a teaspoonful of eastor oil, or a little gray powder with jalap, even though the bowels should be rather loose—as the stools are frequently most offensive, from the acidity which is always present in these cases, and which is relieved by an occasional dose of rhubarb, with soda or magnesia.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

THE MIDDLESEX HOSPITAL.

TICLE-REMOVAL OF THE DISEASED PART-RECOVERY. CANCER OF AN IMPERFECTLY DESCENDED TES-

(Under the care of Mr. HENRY ARNOTT.)

J. B., a farm-labourer, aged 50, came up to the Middlesex Hospital from Sussex, on September 20, 1870. He was a hale-looking man, a widower, with five children, had always enjoyed good health, and knew of no cancer in his family. The left testicle had never fully descended, although sometimes lying half-way down the scrotum, and he had always been accustomed to feel some pain at times in this testicle. Some sixteen months before admission, while stooping to tether a calf, the animal butted at him behind, and struck him severely calf, the animal butted at him behind, and struck him severity on the perineum. Soon after this the pain in the testicle became more severe and frequent; the left aids of the scrotum charged, and he consulted a Surgeon. His work prevented him from submitting to the prescribed treatment, and the pain subdiding he thought little of it for a year; but then, the pain increasing greatly, and being accompanied with much harden, ing of the part, he consulted the Surgeon again, and was sen-ting of the part, he consulted the Surgeon again, and was sento the Hospital.

On admission, the following note was taken of the condition of the parts :- There is a swelling about the size of a small of the parts: - nerr is a cocoanu cocupying the left half of the scrotum. The swelling extends up the cord, and there is some fulness in the abdomest where the cord disappears. There is evidently an accumulation of fluid in the tunica varianis, but one also feels in the position of the testis a large rounded hard mass, slightly boulated, and feeling very much like the testis enveloped in a thick tunic of cartilage, which is partly open behind, and which extends for a considerable distance up the cord, apparently ceasing abruptly at the external abdominal ring. There is, however, a very considerable thickening extending along the cord until it fades in the abdomen, resembling much a hydrocele of the cord, and having a marked impulse with cough. There is no enlargement of the inguinal glands, nor can deep manipulation detect my faunes over the lumbar spine. The position of the patient has no appreciable effect on the tumour, are can the fluid in the servotum be forced into the addominal

On September 22, Mr. De Morgan and Mr. Lawson examined the patient, and at Mr. De Morgan's suggestion the scrotum was tapped, and three or four concess of clear yellow fluid drawn off. No definite microscopic elements were found in this fluid, which seemed to be pare serum; and although the tumour could now be more distinctly felt, no fresh point was elizited. The questions as to the form of disease present, and the communication of the tumber varginalis with the general peritoneal cavity, renained open, but it was judged right to attempt the removal of the tumour.

On Detober 4, therefore, chloroform was administered, and Mr. Amost proceeded to resouve the stetic in the covinary manner. When cleared from the skin, the tumour was found to be continuous with the enlargement extending up the cord. This portion, evidently containing fluid, was punctured, and some six or eight ounces of clear rydion fluid escaped, leaving a castiy with greatly thickened walls. On this puncture being enlarged, the finger passed up easily into the abdominal cavity, the swelling consisting of a greatly thickened tunde reprisoneum, which communicated with the thickened tunde variantis below. The spermatic cord was felt lying along the back of the cand, and it was tell by basing a news needle arread with stout cord round it, so as to include as little as possible of the thickened peritoneum with which it was incorporated. All below this point was then cut away, a strong solution of chloride control of the cand, and the whole the control of the condition of the cond

The after progress of the case was uniformly favourable. The temperature was never raised two degrees, the man experienced no more pain, and the wound slowly healed, with slight supparation. Complete covarianceme was retarded by the store figure about the cord being prevented from coming seasons of the continuous properties of the continuous control and the first properties of the continuous control as tightly fixed as even a gradually increasing weight was fixed to its free cad, and it is few days it came away. The yound afterwards rapidly granulated, and the man left

the Hospital on November 22.

For some days before returning to the country, however, the patient complained of pain in the back, reminding him of his patient complained of pain in the back, reminding him of his was by this time beginning to affect the glands in front of the lumbar spine. Examined microscopically, the centire testis, including the epiddymis, was found converted into a mass of soft caucer. Cells of very varied shape and size, and containing generally single oval nuclei, with bright nucleoil, were densely packed in the large meshes of a fine alveolar network of fibroid material. In most parts this network could only be seen after pencilling the section, but near the surface the oval meshes unit, which had fel like a cartisagin one parts, ordering the testis, was found to be made up of the dense fibroid substance usually met with in tissues indurated by chronic inflammation, with a seanty amount of nuclear growth; and at the places where the cancer seemed to be limited by this tough capsule, traces of a substitution of the cancer for the inflammatory tissue ould be seen, the fibroid substance forming the loose network, and large irregular cells taking the place of the small nuclei. The whole of the cancer in this region seemed to have been

The case is of interest, as having been exceedingly difficult to diagnosticate, and as adding one more to the many instances now on record of cancer attacking an imperfectly descended testicle. The very singular thickening of the whole tube of peritousum descending into the scrotum, and the musual induration of the tunic investing the testis added materially to the obscurity of the case. The absence of all untoward

aymptoms after the operation, although the perinaeum had been so largely interferct with, is also worthy of note. In this respect the case seemed to resemble some of the operations on old hernia, in which the freedom from perinoutis has been aeribed to the altered condition of the serous membrane from long-continued pressure, readering it less liable to acute in-

FRACTURE OF THE STERNUM, PELVIS, AND SPINE, RESULTING FROM A JUMP FROM A WINDOW— DEATH ON THE FOURTEENTH DAY—AUTOPSY.

(Under the care of Mr. DE MORGAN.)

M. B., a dress-maker, aged 28, was admitted into the Female Accident Wand, on May 8, 1870, having jumped from a window twenty feet from the ground while under the influence of alcohol. She feell heavily on the left side, and remained insensible for twenty minutes. On admission there was paralysis of the left leg, but only of motion; this seems to have increased very shortly after admission, as immediately after she was put into bed, the nurse saw her raise her left leg a little. There was no loss of sensation anywhere, and she was perfectly conscious; she could not pass her urine. A eatherter introduced drew away urine mixed with bleed, and she complained much of pain in the lumbar region and about the pelicie when present of pain in the lumbar region and about the pelicie when present on the production of pain in the lumbar region and about the price when the continued of pain in the paralysis of the left left personnied unaltered; but there was no less of sensation—if anything, there was hyperesthesis of the skin over the whole left leg.

Three days afterwards, the diarrhous continuing, the univestill dribbling way, and the paralysis remaining in the same state, the woman meanwhile getting rapidly weaker, there was noticed for the first time a projection at the junction of the manubrium with the second piece of the sternum—cridently a fracture which had not before attracted attention. The patient gradually lost strength, and died on May 22, fourteen days after admission.

The autopsy was made by Mr. Morris, the Surgical registrar, who made the following report:—Slight rigor mortis; lividity of posterior parts; slight commencing sores over nates; body generally well nourished; thoracic viscers healthy. Sterman: At the junction of the manubrium with the second portion of the bone was a transverse fracture. On examining from within, the body being opened from behind, the pleural lining was uninjured; but on scraping this away, pus onzed up from the broken edges of the bone. A small thin that lamina of bone connected with the lining membrane was detached, and on removing this, a larger and more anterior piece was taken away, these two together forming nearly the thickness of the was broken in three ways. Firstly, the left transverse process was quite detached from the rest of the bone; secondly, a vertical fracture of the body; and thirdly, a transverse or horizontal fracture, immediately below the substance between it and the twelfth dorsal. The broken surfaces of bone were carious, and the auterior intervertebral ligament partly separated and ragged-looking. The muscles on the left side of the spine and the gluteal showed signs of bruising and ecchymosis. The cord was uninjured, as were the nerves of the cauda; the dura mater sheath at the seat of fractured vertebra was slightly stained with blood-clot. Pelvis: The left ilium was fractured behind, the fissure extending from near the posterior superior spinous process downwards to the large notch. The pubis was fractured in two places on the left side, through the horizontal ramus from above into the obdurator notch, and downwards and backwards through the descending There was considerable cystitis, and both kidneys were found studded with small abscesses, the pelves and ureters being also inflamed and filled with creamy pus.

ST. MARY'S HOSPITAL.

CASES OF NEUROTIC DISORDER, WITH UNDULY LARGE URINARY EXCRETION, WITH CLINICAL REMARKS.

(By C. HANDFIELD JONES, M.B. Cantab., F.R.S.)

Case 1.—E. C., female, single, admitted February 11, 1870.

Ill last eighteen months; laid up seven months. After a slight

fall on her left side, she felt pain in that side going through it, aching in the left shoulder, and severe palpitation of the heart. Last seven months these symptoms have got worse; she has also lost fiesh, her appetite has been very bad, and she has had nauses after all her food. Menorrhagia has existed eight weak now. Pulse 120; weak; jerky; left rather larger than right. Is very nerveus; her muscles are in a state of marked right. Is very nerveus; her muscles are in a state of marked tremor, those of the hands especially. Respiration 50 per minute. Cheeks are flushed very much indeed; quite of a deep red. Temperature of right cheek, 96 8°. Good breathing heard in both backs and fronts. The lower lateral parts of chest are expanded, as in very deep inspiration. The circum-ference just below the mamme is 27½ inches; the space from the top of the sternum to the xiphoid is 7½ inches; that from the clavicle to the lowest ribs is 14 inches on the left, about 12 on the right. The lungs are evidently large, and come down low in front, occupying the prescordial region. The heart is much displaced, beating in the epigastrium, and net in the normal site. Its sounds are clear, free from bruit; the first sembles the second. Breath very short if she exerts herself. resembles the accord. Breath very short if she exerts herself, Much flatthence. Urine not albuminous; sp. gr. 1017. A Much flatthence of the state of the spin set of the spin set caused, Marchanous injection of only we of lie, spin set caused, Marchanous flatter than the spin set of th better; sickness ceased; urine deposits a copions sediment of large crystals of uric acid and urates; sp. gr. 1042; contains no sugar; darkens extremely with nitric acid, and becomes nearly solid from crystallisation of nitrate of urea. The total urine of March 14 to 15 (twenty-four hours) was 24 ez., sp. gr. urine of March 14 to 15 (twenty-four hours) was 24 er., sp. gr. 1027; the total ures awa 35 (grains; the total uric awid 36 (grains; the total uric awid 37 (grains; the Houghts) uric awid 37 (grains; the uric awid 37 (grains); the uric aw increased on 25th to opii gr. \$ t. d.; and on April 15 to opii gr. \$ 4tis hôris. On the 17th the drug was omitted. She also No other remedies which she took before the opium was given

No other remeases when an excess some are excessive hyper-extiability of the sensory and motor nerve apparatus, depend-ent in some measure probably on the menorrhagia; extreme debility: exceetion of urea and phesphoric acid in quantities too large, if not actually for her system when in health, yet certainly for the same when its vitality was seriously impaired, and very little food taken; and, finally, a notably diminished excretion coinciding with a gain of 8 lbs. in bodily weight. The latter change may be thought due to her having taken more food during the latter part of her stay; but I do not think that the increase was really effected in this way, for her appetitle remained very poor during most of the time. The opium seemed to have the effect of lewering the specific gravity of the urine, and of increasing its quantity. The total amount of solids was, however, lessened, though the urinary water was increased. The result of the case was nothing brilliant, but affords some evidence, I think, that excessive renal excretion may be a marked feature of neuroses, and may aggravate the morbid condition, while improvement ensues on its being checked. The cause of the azoturia in most cases of the kind seems to be a paresis of the renal plexuses, allowing more tissue-change to take place than is normal. The centres which regulate secretion are involved with others in the pervading prostration, just as occurs in fevers, but those regulating temperature remain exempt. These cases seem to form an interesting link between the fevers and the neuroses, weakness and smallness of the pulse, as is usually the case, were proportionate to its rapidity, and may be accounted for on the view that the ventricle did not relax sufficiently to fill itself with blood before it contracted again. The rapidity of the cardiac action may be referred with much probability to a parcsis of its regulating nerves derived from the vagi. If the pulmonary filaments were in the kindred state of hypersesthesia, it would go far to account for the distended state of the lungs, the inspiratory muscles being unduly stimulated to contract. This view assumes that emphysema was not the cause of the distension, which, however, may be erroneous. It seemed to me that there was more respiratory murmur than is heard in advanced emphysematous change.

BIRMINGHAM GENERAL HOSPITAL.

TWO CASES OF TREMOR: THE ONE ACTIVE (PARALYSIS AGITANS), THE OTHER PASSIVE.

(Under the care of Dr. J. RUSSELL.) THE cases which follow present examples of twe well-known forms of that peculiar alternate rhythmical action of muscles to which the appellation tremor or trembling is ordinarily given, although, as in the present instances, the movements often far transcend in severity the ordinary acts to which such a name is properly applicable.

In the first case, one of local paralysis agitans, the tremor was of the so-called active kind. It occurred indifferently, whether the muscles were under the influence of voluntary

contraction or whether they were at rest so far as volitional impulse was concerned; the stimulus to movement was independent of ordinary motor effort. In the second case, the tremor was of the passive kind, taking place only during voli-tional effort; but was not limited only to those parts on which the stimulus of the will was directed; it affected a far wider range of muscles.

Both these eases alike afford evidence of instability of nerve tissue, and depend upon a depressed condition of nerve vitality in some part of the central organs. Their symptoms are due immediately to abnormal discharge of the nervous stimulus. Some remarks made in this journal (vol. ii. 1867, p. 642), by Dr. Hughlings-Jackson, upon the analogous condition of spasm as contrasted with elioreic movement, seem to afford an excellent expression of the different ways in which such instability is manifested in each of the present cases respectively. menting on the proper function of nerve tissue, Dr. Hnghlings-Jackson observes that this particular tissue is designed, in the first place, to store up force for future expenditure; then to expend such force in such a manner as to develope certain orderly movements; and, lastly, se to develope these movements as to maintain them in correspondence with special excitations, thereby bringing them into harmony with the whole system.

Now, in the first case, that of paralysis agitans, the first-mentioned condition of this compound function fails: there is no power to store up nerve force, which, therefore, is expended as quickly as it is generated; and the moment that emetional energy or volitional effort give birth to an augmented quantity of the force, there is nothing to prevent its immediate discharge, and increased violence in the tremors is the result. A curious converse statement, agreeing entirely with the representation just given, is made by Dr. Ball in a lecture on Shaking Palsy, reported in this journal on October 1 (p. 386), to the effect that on the approach of death the shaking ceases, generation of nerve force falling into abeyance. In the other class-that, viz., of passive tremors-illustrated by my second case, nerve force is passive tremore—lituatrated by my second case, here's force is stored up, and, under ordinary circumstances, be muscles are at rest so long as voluntary effort is not made; but when dis-charge of force is designed to the place, for the purpose of effecting some voluntary act, such discharge is not restrained within its intended limits, but occurs in a disorderly manner, and not in harmony with the operation of the entire system. It is further to be remarked that an oldring difference max

It is further to be remarked that an obvious difference may be ebserved as to the manner in which ordinary voluntary mevements were effected by my two patients, and that merements were effected by my two patients, and that this difference may possibly indirects a corresponding dif-first patient was quite able to perform any voluntary act, notwithstanding has spasms; he retained the power of ar-ranging muscular action for effecting purposive move-ments, thus separating his maduly from chorves, in con-nazion with which it is sometimes apoken of, the second patient, on the contrary, retained very imperfect power of coordination; his voluntary movements were very disorderly. Referring again to Dr. Jackson, he remarks that the more complex the movements the wider and more varied must be the relations sustained by the units in the nerve-centre which effect such movements, and the higher in the motor tract must such centering, and the might in the motor fract must such centre of movement be situated; the most complex move-ments are those performed by the highest part of the motor tract in the certerium, where they are co-ordinated with the mental processes; the most simple, those performed by the nuclei of the nerves.

It may therefore be suggested that in my second patient the disease was higher in the motor tract than in my first; and it is to be observed that the injury to which he referred his illness was inflicted upon the occipital region of the skull.

Were it safe to trust the statement of the patient, as to the situation of the facial paralysis in the attack of hemiplegia, on the opposite side to that of the paralysis of the limbs-which the opposite side to that of the paralysis of the limbs—which may be doubted, though his account was singularly precise and positive—there might be supposed some reason for imagining that the pens or its neighbourhood was the seat of the mischief; though it must be admitted that confirmatory evidence is not afforded by other details.

I may refer to a similar case, though more limited in the range of movement, reported by Dr. Broadbent (Medical Times

and Gazette, July 9, 1870).

Case 1.—This was one of local paralysis agitans confined absolutely to the right upper extremity. The patient, aged 55, male; he was lefthanded, or was more probably ambidexter. The tremors were severe, most so in the forearm; then in the upper arm, where the triceps was most affected. The mode in which the tremor was distributed in the upper extremity appears to illustrate a statement which has been made, that connected muscular groups are represented by particular nerve centres: for it was to be observed that the movements were not confined to the upper and forearm, but involved the entire mass of muscles moving the arm—the great pectoral, the deltoid, the infra- and supra-spinous muscles of the scapula, and these between the scapula and the vertebral column, though to a much less extent than the intrinsic muscles of the arm. The movements originally began in the hand, perhaps most severely in the first finger. The man retained power of co-ordinating the affected muscles. The muscles generally were flabby, but those of the trembling arm contracted firmly, and answered well to faradisation. The upper arm, however, had lost three-quarters of an inch, and the forearm less than half an inch in girth. Cutaneous sensation was perfect; there was neither pain nor

The disease has been present a year and a half. It ascended the arm very gradually. During the first year he could command the tremors by placing his arm in a certain position, now he can no longer do this; but at times the movements intermit, especially when the mind is not directed to the limb. It is curious that the movements are lessened by fatigue; they are quieter in the evening, when he can sometimes write a are quieter in the evening, when he can sometimes when a little, though they come on as he dips his pen in the ink. They cease entirely during sleep, and completely during the passage of the continuous current; the ceasation is immediate with the entry of the stream of electricity. They are most powerfully influenced by emotion, and by voluntary effort, even by thinking about the complaint. No cause whatever cere by timing adolt the companion.

To cause where can be ascertained, nor has any benefit resulted from treatment. A continuous current from thirty cells has been employed perseveringly for three months, without any other advantage than that of arresting the tremors for the time. Chloral pro-

duces only temporary cossation.

Case 2.—T. H., aged 27. This patient presented the following remarkable abnormity of the motor functions:—Whilst in a state of perfect rest, the body and limbs were quite quiet; but muscular exertion of every kind-that of speaking as much as any other-brought on a succession of rhythmical, alternate movements, in the direction of flexion and extension, affecting the trunk, neck, and upper extremities-commencing gradually, but rapidly attaining such great violence as to shake the entire body; they were brought to an end by the body and limbs relapsing into a state of volitional inertness. The lower extremities were affected in a much elighter degree, but were extremities were affected in a much slighter degree, but were not free, the walk having a peculiar springing character, and the patient occasionally falling. The movements were completely all the muches into steady counteracting action, whilst they were induced by calling a particular set of muscles alone into play. Thus, in stiting, whilst under their influence, he would draw up his legs, bend his body well forwards, and fier his arma against his shoct. O'the could stand evere, with his arms extended vertically above his head, or horizontally outwards, but not forwards. His food was cut up, and he fed himself by grasping the right wrist firmly with the left hand, at the same time resting his elbows on his knees, bending his body, and meeting his food half way with his mouth. Any arrangement meeting as seed and way was not measured. Any arrangement of muscular action was impracticable; speech, which, like all other morement, produced the agitation, was panting and interrupted—word by word, syllable by syllable being jerked out separately by a distinct squeeze of the expiratory muscles. He drew in liquids by means of a tube which be carried with him. He drewin inquists by means of a tune which no carried with nim. The facial nucles—those of mastication, of the tongue, palate, and cycballs—were natural; respiration was normal. There were some remains of the left hemiplegia at the opening of his attack. Electro-motility was normal, as was seens—

tion. Dr. Welch reported the optic disc healthy; heart and urine normal. He dates his illness from a blow four years ago, which threw him violently on his occiput, and stunned him for an hour. He had a large scalp wound, but there was no evidence of fracture. He was left with complete left hemiplegia, involuntary evacuations, and loss of articulation. He is very positive that his face was drawn to the left side, illustrating his assertion by pulling up the left angle of the mouth; the orbicularis palpebrarum was not involved in the paralysis. He was able to resume work in four months, though he has remained feeble in his left side. The spasmodic movements were gradual in their approach, but six months movements were gradual in their approach, but six months ago underwent sudden increase. He is very clear in assert-ing that he fed himself at supper, but on the following morn-ing required to be fed, and has remained so ever since.

ROYAL INFIRMARY, EDINBURGH.

CASE OF ENLARGED CLITORIS AND COHESION OF THE LABIA IN A CHILD, TAKEN FOR HYPOS-PADIAS-TREATMENT.

[Reported by Dr. J. R. HARDIR.]

A. E., aged 7, was brought by her mother to Dr. Matthews Duncan, in order to ascertain his opinion with regard to her sex. The following were the appearances presented by the genital organs on examination:—Firstly, the clitoris was enlarged; it measured about one inch and a half, resembling the penis of a boy of about 7 years of age. Secondly, a short way behind and below the clitoris was an opening, through which the urine was discharged in a jet, as if from the urethra; it easily admitted an ordinary uterine sound. Thirdly, from this orifice to the anus there was no opening, nor any trace of one, the soft parts being closely adherent. The raphe of the perinenm was continued up to the posterior border of the orifice described. Fourthly, on passing two sounds through the opening referred to, one was found to go upwards and forwards in the direction of the bladder; the other was carried further back, and then observed to glide npwards. Dr. Duncan conceived that the first instrument had passed into the urinary bladder, and the second into the vagina.

Treatment.—Dr. Duncan, with a straight bistoury, slit np the perincum from the opening before mentioned backwards in the mesial line to the extent of about one inch. The tissues divided were thick and vascular; some bleeding followed the orvinca were there and vascular; some bleeding followed the operation. A piece of wet link was inserted between the lips of the wound; the child's mother getting instructions to keep it in for a few days. As premised, the incision brought into view two orifices, one in front leading to the bladder, the other lying behind it and leading to the uterus, being the orifice of

the vegina.

Remarks.—This case is remarkable, inasmneh as we have in the same subject a greatly enlarged cliteris, and cohesion of the labia in such a manner as to leave no trace of an entrance into the bladder or vagina, except in front, where an opening exists through which the nrine is discharged. If a superficial or carcless examination of such a case be made, one may fall into the error, which several eminent Medical men did in this case, of considering it one of hypospadias, and the child to be a male. The nature of the union of the labia in this instance differs somewhat from that which is usually met with, being firm, and resisting any attempts at separation by means of pressure on each labium at the same time. The majority of pressure on each labium at the same time. The majority of cases of this kind generally yield to pressure so applied, no further treatment being at any time required. These was no imperforate condition present in this case; its dissimilarity from other cases of a like kind arose from the largeness of the cliotris. It was this circumstance which misled the Physicians alluded to from a correct view of the case. A case of a similar nature was recently operated on by Dr. Duncan; it was sent to him from the Snrgleal department of the Hospitala as case of imperforate hymen. Here the orifice of the vulva was were separated, and the normal condition of the vulva restored, simply by distracting pressure on either labium; there was no bleeding.

TRICHINIASIS.—Several cases of this formidable disease TRICHIMIASIS.—Several cases of this formations unclease have occurred on board the German barque Fictoria, which recently arrived at Hobart Town from Hamburgh, after a tedious voyage of 120 days. The disease in the present instance is supposed to have been occasioned by partaking of an infected

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Medical Times and Gazette.

SATURDAY, JANUARY 7, 1871.

"PROGRESS! FREE THOUGHT! UNTRAMMELLED LIVES!" FOR WOMEN.

Goddess of Impudence, befriend us! Venus, too! (not that cold being once called Urania, who presided over chaste love and tame married life)-but thou, loosely girdled goddess, who wast worshipped at Paphos and Cnidos, help us, whilst we lay before the readers of the Medical Times and Gazette the efforts of thy disciples to give freedom to thy sex. Let us away with all the old musty notions that woman should be a stay-athome, bashful, shamefast creature, pure in thought and speech, caring for her children, subject to her husband, faithful to one man till death them do part. For lo! in that land of freedom, where thy cousin Mercury inspires Erie stock-jobbers and Pennsylvania repudiators, have arisen prophetesses who teach women to see the folly of modesty and chastity; who will inure their cheeks so that no word shall be able to raise a blush; who will bring into broad daylight all that it has heretofore been thought decent to hide, and, as the moral poet Byron said, "not leave much mystery for the marriage night."

Be it known, then, to our unsophisticated readers, that the words at the head of this article—"Progress Free Thought! Untransmelled Lives:"—form the motto of a weekly newspaper, intended, as the title also says, to "break the way for future generations," and published in New York at 10 cents per week, by two women, named Woodbull and Claffin—at least, they say they are women, and use the Christian names (we beg pardon for the word Christian; we mean the sexual prefix or fore-names) commonly adopted by women—Victoria C. Woodhull, and Tennie C. Claffin are their designations in full, and, as they say they are women, we will not presume to dispute

Women, asy our privateses, have wrongs, and these must be righted. "Upon the relations of the sexes does the future condition of humanity depend." What, then, are the present relations of the sexes; and how are they to be modified for the benefit of future humanity? One point is, that religious authority must be discarded. So long, asy our propheteses, as there are persons who teach that "it is the duty of wirce to submit speak in church," and that "it is the duty of wirce to submit themselves to their husbands," so long may the advocates of the "Equality of Woman Question" expect to meet with a bigoted and stupid opposition. The Christian religion, then, is the first thing to be kicked out of the way in the footsteps of "progress" and enfranchisement of thought.

The next item is political. Women are to claim absolute equality with men at the hustings and in every other social and political respect. "Why," it is asked, "are men only to be counted as citizens, and entitle to the nuffracy "" "Why," it is asked, "this discrimination in the Constitution as against women? Why should it not have been against men instead? and why should not the women citizens of the United States, they being in the majority, rise up, and declare that they, instead of men, are the enfranchised class?" We say, too, Why not? and, as a novelty in these bad times, we suggest to the women that there would be some fun brought back to earth if the women would make a coup d'icit, if they would get out of bed some night, seize the arms, displace sentries, get hold of the ships, fortresses, and Government offices, and instal themselves, as the true Gynecratical Republic, with a female army, nary, and Congress.

But these are mere trifles. Political freedom is nothing. It is woman's self that needs emancipation—

"It is anperlative nonsense," says a correspondent, "to talk of woman's rights whilst ignoring her first, fundamental, only right—the right to herself. Individually is the basis of all rights. Except as a free, self-owned individual, woman has no rights. . . . Give the slave the ballot to protect herself or himself against the oppression of the master! The slave, as such, has no rights. Every woman has a right to the ballot; but womanhood but free womanhood but free womanhood hout come first—the ballot instantly after."

Next, our readers will ask, What is this bondage under which womanhood is groaning? and what is meant by its enfranchisement? Let us hear what the Misses Woodhull and Claffin say:—

"Editical equality cannot be granted to women without their also obtaining sexual equality, as a legitimate sequence, And just here is where all the 'hell-a-bell-loo' begins to show itself. If the enfranchised woman could still be compelled to remain the servile, deelle, meelly acquiescent, self-immolated to remain the servile, deelle, meelly acquiescent, self-immolated voting. At the ballot-box is now where their value of the where the corn stings. It is at home, where the husband, as in pre-historic times of anarchy, is the supreme rules, that the little difficulty arises; he will not surrender this absolute power unless he is compelled."

In another place, the prophetesses say-

"The days of arbitrary rule have departed. All things more by the more enlightened rule of equal-right. In one department alone does absolute sway still linger. Woman is subjugated still by man; woman, as a sex, is under the absolute sway of man as a sex. All rules of life are by him laid down sway of man as a sex. All rules of life are by him laid down father than the still rules of life are by him laid down all enjoy the rights of equality. Not a bit of it. Never were you more thoroughly, more radically, mistaken. There is no such thing as female freedom or female equality, before the law, in the land."

But whether or no man is to lord it in the political world, or to be master in his own house, matters not much; one thing is clear, that he must not lord it over his own wife. Women must be free in person, and the marriage-tile be reduced to a mere slip-knot, loosable at will—or, rather, at the woman's will; for these dear creatures, who begin by claiming equality of the sexes, soon let us know that "equality" means the suppremacy of woman:—

"The ulterior result of the union of the screen is reproduction of their kind; and we hold that in this matter woman should be the determining power, and whatever there is in present forms of marriage that militates agrainst her supreme right in this respect, we again assert, should be changed. The progressive tendencies of the age have denounced the submission of woman to man; and the time, if not already come, will come shortly, in which, with or without the consent and approval of present customs and forms, she will no more submit that a law, no matter how secredly held, shall bink her to bear children by a man who has taught her to abhor him, or whom she holds in diagrat."

Marriagelaws are to be abolished - and for this sufficient reason

If man and wife choose to stick to one another, who hinders them? If they do not choose, why should other people make them? Marriage will never be abolished by our propheteses; but then marriage is too divine a thing to be interfered with by beastly man; law. Marriage means the union of congenial souls and bodies, when and so long as they like, and no longer—in fact, marriage should be what the American priestesses call "free love," and what in this benighted old word is often called formication. "Free lovers" have really hitherto been too generalsh:—

"I am of opinion," says a correspondent, "that the modesty of the 'Free lovers' has been carried to a point where it has 'ceased to be a virtue,' and our conservative friends must not be surprised if in future the marriage question should be discussed on both sides."

Dogs and cats, stamens and pistils, mix as they like; why not man and woman?—

"What is marriage? Is it a loyal union between a male and female of the race of animals known as Man; or dose it have a wider and deeper significance? Are the 'unions' between the naise and females of the types of animals below man, marriages, or are they something else? Are the 'unions' between the male and female species of plants, by which they reproduce and increase, marriages; or should they be designated by some other term? If these are marriages, who is there that will prepare some marriage law, not in harmony with natural law, that shall compel each of these to for ever remain mated, whether they would or no; and, by so being compelled, to ever remain respectable() members of their society? If

If a husband and wife are tired of each other, and each likes someholy else, why should they not be indulged? Why reduce poor women to the necessity of poisoning their husbands in order to get rid of them? One of the priestnesses says that she now knows a married woman who has six pressing suits for marriage from as many married men! What will be the result of such conditions? As was wisely remarked by one of our leading papers a few days since, "Much crime would be prevented were those who are determined not to remain husband and wife permitted to separate in quiet and peace."

Hence we see that the "untrammelled lives" which our priestesses claim for their sex will have the effect of doing away with adultery and fornication as crimes! It will have further results. Children will no longer trouble themselves to know (as wise children were once said to know) their own the settlers. We are told in praise of the Oneida community at these there can be no orphanage. "Every infant has a hundred living fathers and mothers."

We should be doing an injustice to Misses Woodhull and Claffin were we to omit all notice of the ethico-physical theory of cuckoldom which is a part of their philosophy. Women, for the future, are to be arbiters of their own narital rights, and lords of their own sexual selves. But suppose the poor devils of men don't like it?—suppose they fret at the horny honours of their brow? Here sage philosophy comes to their did, and, whilst the wife is amusing herself with a little "free love," the husband may console himself with an aphorism.

"Every human being gets, with rightful opportunity, just as much love as he is entitled to—that is, just as much as he has the attractions to inspire. This is all he can get by any possible arrangement. He may get the appearance of more, by grasping, and constraining, and surrounding by harem walls, material or moral; but he gets the bogus article, and not the genuine."

The real cure for jealousy, is not to be jealous, but to allow the laws of woman's nature full scope. If she has a fancy for a lover, it is because she does not care for her husband, and taking away the lover will not make her love her husband one bit the more:—

"Repulsion grows out of grasping, while attraction grows out of the broadest concession of freedom. By holding fast, one loses, while by giving away freely, one gets back continually: so great is the charm and excellence of freedom. Now, then, when this working of human nature comes to be known.

jealousy, which it is admitted is natural, is seen to be unicise, because it defeats the very end it has in view."

In fact, jealousy, or a desire to limit a wife's enjoyment, is more than a mistake: it is a crime: --

"If what we prize is the affections of another, we shall, if we are truly cellightened, begin by admitting—first, that that other has a perfect right to bestow his or her affections as he or she pleases; and secondly, that every other person has a perfect right to as much of his or her affections as he or she is capable of truly attracting; and thirdly, that he who with or limit either of these rights, he aspiritual thief or robber, and a proper object for his own contempt."

Here we must stop. We admit that the condition of women may be, in some respects, improved; they may be better educated, made somewhat more independent. But existing society, bad though it be, has some good points. A man can claim his own wrife, and be master of his own bone and father of the children who take his name. If universal suffrage, common unsectarian education, the freer union of the youth of both sexes in schools and colleges, the concession of political rights to women, and the adoption of mascaline garb, are to be the preludes to such a reign of universal whoredom as Misses Woodbull and Claffin prach, we shall be wise not to pull about our social edifice too hastily till we are sure of something better.

LATIN IN DAILY LIFE.

ATER nearly 300 years of celipse and decay, it seems that the study of Latin, to which all the educated part of the youthful community devotes so large a portion of time, is about to be restored to the use and familiarity of common life. The matter is one that concerns ourselves, who have a tradition that Medicine was once a "learned Profession," and a few words upon it may induce our readers to bestir themselves, and assist in a thoroughly practical and useful novement of reform.

Much as is said in praise of modern education, there is no doubt but that a knowledge of Latin-such as would enable a man to read an easy book, or to write a few simple sentences correctly—is more rare now than it was in the days of our fathers, and is daily becoming rarer. Do you ask proof? See what use of Latin has been given up within these few years! About three years ago the London Royal College of Physicians gave up the Latin Harveian Oration, and allowed it to be pronounced in English. About two years before, the Medical faculty of Paris allowed Graduation Theses in French to be substituted for Latin. The University of Edinburgh had made the same change a few years earlier. Forty years ago the prescriptions of Halford and Chambers were quoted as examples of easily flowing Latinity, in which the directions to the Apothecary respecting the bleeding, blistering, or dosing a patient were couched in terms of classical elegance, and were sure to be comprehended by the inferior functionary, such as the Apothecary then is supposed to have been. Now, it is quite certain that many Fellows of the Royal College of Physicians find it a fatigue to understand a Latin oration when spoken, and more fatiguing to write one; and it is quite certain that most Physicians in their prescriptions now confine themselves to a few well-worn cabalistical abbreviations, such as 4th a.a. hord sumend., and that if they were to attempt to write full directions in Latin (a thing they could not do easily), chemists would find the greatest difficulty in interpreting them. Whether "cyathus vinarius" would be translated a "wine-glass," or a "glass of wine;" whether "inter cibum" would be rendered "at meals," or "between meals," would depend on the caprice of the chemist to whom the prescription was taken. So that there are two good reasons for writing prescriptions in English.

We could heap instance upon instance, if it were needed, to show that Latin is, and has been during this generation, passing out of familiar use. In Parliament, the quotations from

Horace, which used to grace the periods of Pitt or Canning, are now seldom heard. Quotations in ordinary books are mostly confined to a few proverbs or examples from a Latin oranmar, and many of these are misspelt. Latin words, even in Medical books, are apt to be horribly degrammatised. We see such words as spicula, labia, labiam majorum (for "greater lip"), " si diarrhed urgenti" (for " if the diarrhes be troublesome"), and other and worse barbarisms. We know that in the last generation the popular botanical book was Smith's " Flora Britannica," in Latin; and when the Apotheoaries' Society instituted lectures on botany, one of their members, Mr. Wheeler, a member of an accomplished Medical family, published a catalogue of Medical plants in Latin. It would be useless to go back a century and point to the Latin Pharmacologie of Richard Dale, Member of the Society of Apothecaries, which then held the place that Pereira or Garrod holds now. (We need not refer to Sydenham or Morton. the giants of the seventeenth century.) Lectures in Latin were delivered at colleges and universities. We have before us a student's notes of Latin lectures at Edinburgh in 1804. Prayers in Latin were said at St. Paul's, Winchester, Westminster, and all the public schools. At Winchester it was the rule that the scholars should converse in Latin and not in English. " Patrium sermonem fugito, Latinum exerceto," was one of the rules of the Tabula Legum Padagogicarum at Winchester. But all these things are now past and gone. Physicians and anothecaries could not write, nor students read, books written in Latin; and if, at some schools, prayers are still said in Latin, we have ascertained for a fact that some at least of the scholars don't understand a word of them. The Anglican clergy (some of whom, kind souls! now propose to spend their superfluous energy in practising Physic) have let their religious formulæ, as they did their sacred edifices, "moulder," as Dr. Johnson said, "in unregarded dilapidation." Had they minded their own business, and kept np those standards of ancient learning and picty supplied by the statutable Latin prayers for endowed schools,(a) we should not now find clergymen and schoolmasters forced to compete for seats at a schoolboard with mere amateurs, politicians, and women.

There is no doubt, then, but that Latin has been and still is losing its place as a familiar language, and nowhere more than in the study and practice of Medicine. Of course there are reasons for this beyond the mere negligence of schoolmasters, Parents are apt to complain of time devoted to a study with (as it seems to them) no practical ends. No language can be used in daily life which has not life and the capacity of growth. New words are wanted for new things, and for new ideas of things. The Ciceronian phraseology, which is almost the only form of Latin taught by the Anglican clerical schoolmasters (who ignore medieval Latin, even if ecclesiastical), is not well adapted to describe the composition of a glyster. The old bottles will not hold the new wine without rents and patches; hence, as things are, we are perfectly willing to acquiesce in the disuse of Latin as the language of modern science and philosophy, so far as students are concerned.

But, for all that, there are solid reasons in favour of keeping up and increasing a familiar knowledge of the language. Latin might be made a kind of universal language for scientific men. This is the proposition of the cminent physicist, Marcy, the inventor of the sphygmograph, and author of the well-known treatise on "Motion in the Functions of Life." The study of Latin introduces the student to some of the more practical philosophy and grandest morality; to the knowledge of human nature. Especially is the study of human nature necessary for the Physician. It is of no use to know how to treat patients in Hospitals, unless he knows how to attract them in private life; and, the, study of Horace contributes

somewhat to this. But, hastly, the Latin is the sister of the therman, Greek, and Celtic, and mother of three fair daughters, the French, Italian, and Spanish; and every Physician ought to have a good knowledge of the French, and some knowledge of the other two Latin-derived languages. A knowledge of the mother ought to be an introduction to the daughters; and, if for no other reason than as a key to French, the Latin ought not to have been allowed to pass into disase, and the study of it ought now to be revived and intensified.

But for the last 300 years the Anglican clerical schoolmasters have taken the most effectual means that their pupils, study Latin as they may, shall not have the smallest help from it in the study of French, and that all philological comparison shall be is nored and stifled. For this purpose they have taken care to pronounce Latin, not as its living daughters are pronounced, and as the people of Romance countries do now speak it, where Latin itself is still the vernacular, but as English is spoken—a language whose vowels are degraded and dislocated so as to be unlike any other. Hence the Latin is deformed; short syllables are made long, and the whole analogy with modern speech is lost. The word mtht, or wicht, is made into " muhigh; into "ego;" " ago" into " aygo;" "rego" into "reego;" " Da mihi panem" is travestied into " Day myhigh paynem." Eton boys, in their respectful and affectionate slang, so creditable to the chief place of education in England, speak of "a fellow's meaning, his father. In fact, that connexion between mother and daughter which ought to make Latin a steppingstone to French, and still more to Italian, and which would vindicate for Latin, now as ever, a primary place in modern scientific education, is ignored and left out of view-for we hold that language is as much a branch of science as chemistry is.

Bearing these things in mind, we hope that the army of Medical fathers of families, in sending their sons to school this month, will express to the masters their wish for a rational pronnectation of Latin. The more liberal and enlightened amongst the head masters of endowed schools are really awaking to the absurdities of what daily passes under their cyes, and there is some hope that English Latin, that relic of insular pride and ecclesisatical isolation and intolerance, will soon be a thing of the past.

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THE WEEK.

THE friends of the lady-students at Edinburgh have appealed to the Governors of the Royal Infirmary to rescind the recent resolution of the managers, which excluded women-students of Medicine from the wards of the Infirmary. The resolution of the managers has been re-affirmed by a majority at a meeting of the governors. The supporters of sexualism mustered strongly on the occasion-for the majority. which supported decency, seems to have been a small one, and a scrutiny has been demanded, which has not been yet taken. We are sorry to notice that at the meeting one of the lady-students, Miss Jex Blake, permitted herself to make imputations against Professor Christison and his assistant imputations of which we will allow our readers to judge for themselves. It is very evident that the ladies in this case, as in many others in which they are concerned, play a certain game. They claim the right to say what they please, and think it very hard if their antagonists return the compliment. They call it indecent and immoral that women should employ mule Physicians, but do not consider it indecent or immoral to take part in any physiological or anatomical studies in company with men. They claim freedom of thought and speech for them. selves; but when Professor Christison, or the persons responsible for the management of an important Medical school, claim the same liberty in judging whether a large infusion of female students be desirable or not, they immediately raise outeries of "discourtesy." "bigotry," and "Professional jealousy." If the

⁽a) Anyone who will look at the Latin prayers for schools, published for 1s. 6d., under the title "Social Academics," (Rivingtons, 1865), will see what a mighty fall there has been.

report in the Edinburgh Courant be true, the conduct of the Lord Provost, who presided at this meeting, was simply imbecile. Miss Jex Blake said-

" I will not say that the rioters were acting under order: but neither can I disbelieve what I was told by indignant gentlemen in the Medical classes, that this disagreeable scene would never have happened had not it, and the petition got up at the same time, been needed as a weapon against our admission to This I do know-that the riot was not wholly the Infirmary. or mainly due to men from Surgeons' Hall. I know that Dr. Christison's class assistant was one of the leaders of the riot, and that the foul language he used could only be explained on the supposition I heard asserted, that he was intoxicated. I do not say that Dr. Christison knew of or sanctioned his presence; but I do say that I think he would not have been there had he believed it would be displeasing to the Doctor that he should be so-

" Professor Christison: I must again appeal to you, my Lord. I think that the language which has been used regarding my assistant is language which no one would use at such an assembly as this, where a gentleman is not present to defend himself, whether it were true or not. (Applause.) I do not know whether it be true or not, but I know that my assistant is a thorough gentleman, otherwise he would not be my assistant.
('Hear, hear,' and applause.) I appeal to your Lordship whether such language as has been used is to be allowable. appeal to you if there is any gentleman in this assemblage who

would have used such language in regard to an absentee—
"Miss Jex Blake: If Professor Christison is willing, I am

perfectly ready to say—
"Professor Christison: I wish nothing but that this foul language shall be put an end to.

The Lord Provost: I don't know what it is. She is giving her opinion-"Miss Jex Blake : I said before that the only excuse for the

assistant was that he was alleged to be drunk.

by one or other of the Medical Corporations.

The position of the Universities with regard to the conjoint Examination Board seems to us clearly defined. If they are invited to take part in the examinations, and to receive any share of the remuneration, they must submit their own students in Medicine to the ordeal of the examination as a necessary step to graduation. If the Universities refuse this condition, they can hardly complain if they are not requested to take any active share in conducting the national examinations. We should gladly see them represented by visitors at the Board : but the submission of their graduates to the examination test of the Board is necessary for the perfection of the one-portal system, and it is this alone which would render the co-operation of the Universities in the work of examining particularly desirable-for, practically, the very same examiners who would be nominated by the Universities would be cligible for election

The weekly mortality from scarlatina in London, which but a few weeks back was over two hundred, sank last week to 110; and the mortality from small-pox, which has been rapidly increasing, last week reached exactly the same level with scarlatina, there having been 110 deaths. Of these, 17 were returned from the west districts, 27 from the north districts, 5 from the central districts, 47 from the east districts, and 14 from the south districts. There were 12 fatal cases (nearly all of unvaccinated children) in the sub-district of St. John, Westminster, out of a total of 38 deaths from all causes.

We regret to observe that the Medical Department of the Privy Council have thought fit to remove the husiness of the vaccination station, known as the National Vaccine Institution. from Charlotte-street, Fitzroy-square, to Whitehall. To the Practitioners of Central London, the Fitzrov-square institution was a great convenience, as a supply of excellent vaccine lymph could always be obtained there on an emergency. Now, the Practitioner will be obliged to go to Whitehall, or write to the Medical Officer of the Privy Council, before he will be able to obtain a charge, whereby valuable time may be lost. We should have thought that, in the face of an epidemic of smallpox, it would have been the aim of the Government to multiply rather than diminish the depôts of vaccine lymph.

We hear that it is in contemplation to present a testimonial to the Scottish ovariotomist, Dr. Thomas Keith. What Mr. Spencer Wells has accomplished in England, Dr. Keith has done for Scotland. Each has taught his countrymen to regard ovariotomy as a thoroughly justifiable and salutary Surgical proeeeding, which, with due care and under favourable circumstances, may be undertaken with high promise of success. Dr. Keith has completed his hundredth operation, and among these hundred cases the mortality has been nineteen. It is not to bo wondered at, therefore, that the Profession in Scotland are proud of the success of their distinguished confrire, and that their feeling of admiration is taking a practical shape. It is intended to present Mrs. Keith with a portrait of her husband and a service of plate. Amongst the committee formed for carrying out this object are several of the Medical Professors of the University, and some of the most distinguished of the Profession in Edinburgh. Dr. Matthews Duncan is the treasurer, and Dr. Arthur Gamgee the secretary to the committee. We have no doubt that many of Dr. Keith's friends in England will thank us for this information.

The election of the officers and council of the Clinical Society will take place at the meeting, on January 13th. Dr. Gull is proposed as President, and the new Vice-Presidents are to be Dr. Owen Rees, Dr. Burdon-Sanderson, and Mr. Campbell De Morgan. Dr. T. King Chambers, Dr. Peacock, Mr. Erichsen, Mr. Prescott Hewett, and Mr. Henry Lee will continue to hold office as Vice-Presidents, and Dr. Headlam Greenhow as Treasurer. The gentlemen proposed as Members of Council, who did not hold that office last year, are Drs. Broadbent, W. Cholmeley, Handfield Jones, A. Meadows, Sydney Ringer, and Wilks, and Messrs. Callender and Sibley. The Members of Council who do not retire are Drs. Barclay, Langdon Down, Pavey, and Hermann Weber, and Messrs. Croft, Gascoyen, Christopher Heath, Berkeley Hill, Carsten-Holthonse, W. B. Kesteven, C. F. Maunder, and Thomas Smith. Dr. Buzzard continues to hold the office of Medical Secretary, and Mr. George Lawson is proposed as Surgical Secretary.

We regret to hear that Mr. Solly has been induced by the state of his health to resign the Surgeoncy to St. Thomas's Hospital. We hope that a short retirement from the more active public duties of the Profession will speedily recruit him.

It is not common for members of the Medical Profession to apprize the public or allow the public to be apprized of their domestic or private affairs-in fact, it has been usual to keep a Medical man's name as much as possible out of publicity, except that publicity which is the honourable and necessary reward of efforts made to advance Medical science. But a new era is dawning on medicine. The public journals announce that Miss Elizabeth Garrett, M.D., member of the London School Board, is shortly to be married to Mr. James G. Anderson, of London and Morpeth, who took an active part in her election. We rejoice that Mr. Anderson is to be thus rewarded. But the announcement, from a Medical point of view, is exceptional, and we are old-fashioned enough to hope that it may remain so.

The coroner's jury, at the inquest on the body of Lord Henry Bentinck, who died suddenly on Saturday, decided that death took place from cold acting on a weak heart. Lord. George Bentinck, deceased's brother, died suddenly, it will be remembered, from heart disease. Numbers of old people have died, during the recent twelve days' frost, from the effect of cold on an enfeebled heart.

Several cases of death from accidental poisoning are reported. A woman died from swallowing some "disinfecting fluid," in place of rum; and a person, in a very weak condition, has been poisoned by a large dose of tincture of squills, administered to her by mistake as medicine, through the carclessness of a messenger.

THE TWENTY-FIFTE ANNUAL MEETING OF THE PATHOLOGICAL SOCIETY—THE RETIRING PRESIDENT'S ADDRESS.

THE annual meeting of the Pathological Society, which took place on Tuesday, was full of interest. Amongst the specimens exhibited was one of a gall-stone shown by Dr. Murchison, which had been passed from a patient in whom it appeared for a time to have occluded completely the common bile duct, and in whom the whole of the bile seemed to pass through a fistulous passage, which opened externally. A point of interest in the case was the large quantity of bile thus excreted. The bile was carefully collected, and it was found that the patient passed from one to two pints of bile per diem through the opening, and sometimes as much as an ounce and a half in an hour. Blondlot found that the quantity of bile passed by a dog in twenty-four hours was on an average twelve and a half drachms. Haller supposed that the liver of a man would secrete from four to five times as much bile as the liver of a If this were so, the average quantity secreted in man would be from six to eight ounces in the twenty-four hours. Dr. Murchison's case, however, seems to prove that this estimate is greatly too low, and that those who suppose the quantity to be from seventeen to twenty-four ounces are nearer the truth. Ritter's experiments on the dog, however, seem to show that the quantity of bile varies with the quantity and quality of food taken. Unfortunately, in Dr. Murchison's case the precarious condition of the patient during the occlusion of the common bile duct prevented any experiments by medication, or otherwise, being attempted. Recovery, however, followed the passage of the biliary calculus.

The incident of chief interest in the meeting was, however, the retirement of the President, Dr. Quain, from the chair which he has filled with no ordinary courtesy, judgment, and ability during the past two years. The mover of the vote of thanks to Dr. Quain, Dr. Headlam Greenhow, dwelt upon Dr. Quain's long connexion with the Society, and the services he has rendered to it. The seconder of the vote, Dr. Edwards-Crisp, referred in highly culogistic terms to Dr. Quain's early labours in the cause of pathological science, and especially to his well-known paper "On Fatty Degeneration of the Heart." We need scarcely add that the vote of thanks was carried heartily and unanimously. Dr. Quaiu, in his reply, said that if it were a fault to have held office in the Society for many years, he must plead guilty to it, for he had served the Society as Councillor, Secretary, Treasurer, and now as their President, ever since its formation, twenty-five years ago. He bestowed a merited culogy upon the successive Councils which had governed the Society; and as a proof of the earnestness and value of their labours, and of the advancement of pathology which has accrued from the establishment and work of the Society, he referred to the twenty-five volumes of the Society's Transactions. He spoke of the pathology of the past, as represented in the works of Baillie, Carswell, Cruveilhier, and others, and of the pathology of the present, which seems by the aid of the scalpel and the microscope, to be daily telling us more and more distinctly what disease is. But he thought that the pathology of the future would arrive at still a higher level, for it would, he believed, tell us why disease is. He looked forward hopefully, for he believed that at the end of another quarter of a century we may have solved the problem-why, for instance, one human being exposed to cold should be struck down with pneumonia, another exposed to the same cause should have rheumatism, and another albuminuria. What was the condition of blood or other cause which determined the disease? This was the kind of problem which he hoped the pathology of the future was destined to solve; and he looked forward with confidence, as he believed the science was already tending in that direction. He instanced as hopeful signs the experiments performed by Dr. Sanderson and others on the inoculation of tubercle; recent researches in the chemistry of pathology; and the impetus which must be given to

the study of comparative pathology in this country by the acceptance by the University of London of the Brown trust of 35,000% for the prosecution of that branch of science. The pathology of the future, prosecuted in this direction, would, he believed, become the basis of a more certain and effective system of therapeutics. Dr. Quain's retirement at the termination of his period of office must not be allowed to pasewithout our again expressing our opiniou that during his Presidency there has been a marked improvement in the tone and interest of the meetings. Without ever stepping beyond the strict limits of pathology proper, the Society's meetings havebecome in a less degree a mere series of demonstrations of morbid anatomy. Pathology in its wider sense has not been taboood, and we believe that, in consequence, the meetings have been more attractive and more useful. The genial influence of the retiring President has promoted a better feeling, if we mistake not. The mock applause with which a lengthycase, or not, perhaps, very connected statement, used to bereceived, has been rarely heard of late. Dr. Quain will carry with him into the only less dignified but less onerous rank of the Vice-Presidency the thanks and kind wishes of all thoseover whom he has presided.

MEDICAL PROMOTIONS IN THE BEIGADE OF GUARDS.

THE retirement of Surgeon-Major Wardrop on half-pay from the Grenadier Guards, as published in the Gazette of 3rd inst ... has caused a run of promotion among the Medical officers of that regiment and of the Scots Fusilier Guards. Mr. Elkingtonsucceeds to the Regimental Surgeon-Majorey. Mr. F. B. Baker, of the Scots Fusilier Guards, being the senior Assistant-Surgeon in the brigade, is, by the same rule which was applied in the case of Mr. Elkington's promotion some years ago, and which gave rise to so much discussion at the time, promoted as-Surgeon into the Grenadier Guards; while Mr. Lane, Assistant-Surgeon in the Grenadier Guards, being junior in the Service to-Mr. Baker, is promoted to Staff Surgeon, and re-transferred, in the same Gazette, to his old regiment, as junior to Mr. Baker. The rule which now appears to be established in the promotionof Medical officers in the Guards is that the post of Surgeon-Major, being considered more purely regimental, shall be filled up by senior Battalion Surgeons of the regiments in whichvacancies occur, while, in the case of the Surgeons, a compromise is made between the two systems of brigade and regimental promotion; the Senior Assistant-Surgeon in thebrigade gets the vacant post of Surgeon, and the Senior Assistant-Surgeon in the regiment also gets promotion in his regiment but as supernumerary of the rank. Surgeon-Major Elkingtonhas had the good fortune to obtain the advantages of bothsystems, having, in somewhat less than eighteen years, chiefly at home, attained a rank which Medical officers in other branches of the Army Medical Service cannot reach until they have completed twenty years on full pay in all climates.

THE GENEVA CROSS.

Wz observe that the Moniteur, of Bordeaux, of the 31st utrabilishes a decree by which the volunteer ambulances are placed under the control and responsibility of the National Society, without whose formal sauction no volunteer ambulances can be henceforth constituted. Official delegates from the existing independent ambulances are to report to the Society and submit to its decision. All arm-badges delivered by the local committees or authorities are declared null and void from January 15. We trust that this decisives and very judicious measure will, on the French side at leave, to some extent check the unjustifiable abuses which have proved the confiding and amiable theories of the Geneva Convention, to be impracticable, and have so much interfered with the efforts, for the relief of the wounded.

SYPHILIS.

Our readers are aware, from the recent discussions in our columns, that, although much has been made certain in our knowledge of syphilis, much still remains vague and ill-defined. It will be seen, from a paper by Insportor-General Lawson we publish to-day, that, in his opinion, syphilis, like other forms of contagions and infectious disease, is liable to assume an epidemic form, although ordinarily prevailing sporadically. Making an attempt to clear up that which remains doubtful in our knowledge of syphilis, we have drawn up the following queries, and circulated them among the most eniment authorities out he subject. The results we shall in course of time make known. Meanwhile, we shall be most happy to receive information from our readers on any of the points on which their experience enables them to speak, hoping thereby to make our report all the more valuable:—

What are the ordinary primary lesions (a) in man, (b) in woman.

What are the relations between the lesions of the infecting

and infected parties?

What are the varieties of sore recognised by you?

What are the relative proportions of hard and soft sores as seen by you?

Is difference of character due to difference in texture of the part affected, or to the infecting agent?

What is the proportion of suppurating bubbes following venereal sores, and what sores do they follow?

Is a suppurating bubb any protection against secondary

Is a suppurating bubb any protection against secondary symptoms? Are hard sores invariably followed by secondary symptoms?

Are hard sores invariably followed by secondary symptoms: What form of secondary symptom is most invariably observed after a hard sore:

What lesions, primary or secondary, are capable of propagating the disease?

Does constitutional syphilis affect a child, the mother being

unaffected?

What form of treatment do you ordinarily adopt—(a) for

hard sores, (b) for soft sores?

Information on any disputed point overlooked in the above will be gladly received.

THE OBSTETRICAL SOCIETY.

THE annual meeting of the Obstetrical Society was held in the rooms of the Royal Medical and Chirurgical Society, Bernersstreet, on the evening of Tuesday, the 4th inst., the President (Dr. Graily Hewitt) in the chair. The report of the auditors on the financial position of the Society was most favourable. The total income for the year was £757 7s, 11d., and at the date of the report there was, after making a small investment in the funds, a balance in the hands of the treasurer amounting to £135 19s. 10id. The report of the honorary librarian was also satisfactory. There was evidence of the increasing usefulness of the library, and the supply of works had been considerably increased. There was a prospect of their lease being renewed at a slightly increased rental. The office-bearers recommended to the Council, and whose names were given last week, were elected. Dr. Graily Hewitt then proceeded to address the Society. He commented on its satisfactory position, its number of Fellows being about 600, among whom were Drs. Arthur Farre and West, who had stood aloof from them at the foundation of the Society. Their losses by death included the well-known names of Drs. Chowne, Lumley Earle, Uvedule West, and Simpson. He was pleased to be able to announce that the amalgamation scheme had been finally abandoned, and to be able to hand down to his successor their rights and privileges unabridged. Their Society had now existed for twelve years, during which time they had done much good work; and this he briefly reviewed, dealing first and most extensively with the subject of obstetrics, next with the diseases peculiar to women, those of children, infant mortality, obstetric instruments, and obstetric education and examinations. A hearty vote of thanks was put and carried, and the meeting adjourned.

THE CAT AMONOST THE GAROTTERS AT BIRMINGHAM.

THE cat alluded to in the above heading does not belong to that class of domesticated animals with which we are all so familiar, but is the name of a peculiar kind of instrument used in the treatment of criminals, called the "cat-o'-nine-tails." This weapon-for it is truly a weapon-has, during the past week, cut a remarkable figure in the annals of our Borough Gaol. It has inflicted severe bodily punishment on three worthless and cruel seoundrels, who had been pronounced guilty of the dastardly offence of garotting. The prisoners, whose ages ranged from 19 to 25, had been arraigned before Baron Bramwell, and were by him sentenced to a good flogging. In passing the sentence, the learned Judge remarked that, as they had caused physical pain to others, it was only just that they themselves should experience pain. The majesty of the law was duly carried out in the courtyard of the gaol, in the presence of the officials (the Press was excluded). For the edification of the unlearned, we may state that the cat-o'-nine-tails is a very formidable instrument-of repulsive appearance, and capable of causing severe bodily pain. It consists of a stout handle, about a foot long, armed at the end with nine strong, firmly-twisted whipcord lashes, each a foot and a-half in length, well seasoned, and of rigid fibre. Such was the whip employed. The offenders having been stripped to the waist, pinioned, and bound to the triangles, two stout warders dealt them in turns the allotted number of stripes on their backs, the blows falling chiefly from the right shoulder to the left hip, in an oblique direction. Each stroke of the cat raised immense wheals on the quivering flesh, which, at the end of the punishment, became one huge mass of cochymosis, of pulpy consistence and frightful aspect. The fearful screamsor rather vells-which succeeded the torture was a convincing proof of the pain-dealing character of the instrument, and the efficiency with which the edicts of the law were carried out; and not only did the cries last during the whipping, but continued at choking intervals long after the flagellation was over. This practice of flogging criminals was abolished in England, except in the case of comparatively slight whipping of lads, but, in the winter of 1862-63, owing to the extensive system of garotting, it was brought again into requisition. Since then, these deeds of violence have been much on the decrease; nevertheless, it becomes necessary, on their reappearance, to apply the only remedy-and this seems to be the one-which is effective, however painful and humiliating it may be, in dealing with such miscreauts. Around Birmingham, for many a long mile, it is to be hoped the tale will be carried, so that the evil-disposed persons who cannot control their worst passions may learn such a lesson as will and must teach them, for their own sakes, to hold the "cat" in bodily

PROSECUTIONS UNDER THE SANITARY ACT OF 1866 BY THE CORPORATION OF DUBLIN-POISONOUS CONFECTIONERY.

THE Corporation of Dublin continue their laudable exertions in carrying out the provisions of the above and more recent sanitary statutes. They have now turned their attention to the very deleterious articles of confectionery manufactured and retailed in large quantities. Several traders have been brought up at the Southern Divisional Court, Dublin, on a charge of having used poisonous ingredients in the preparation of various sweetmeats. Sugar-sticks of a yellow colour were found to contain chromate of lead; lozenges were coloured with vermilion (bisulphide of mercury); and other articles were composed, to the extent of from 10 to 12 per cent., of terra alba-a form of fuller's-earth most injurious to children. The city analyst, Dr. Cameron, who had experimented on the different articles mentioned, suggested the employment of saffron and cochineal, both harmless substances, as colouring agents in lieu of the hurtful chrome and vermilion. The traders were fined, and obliged to pay all costs.

DEATH BY DROWNING AND COLD.

Dr. RICHARDSON'S lecture on Death by Drowning and Cold brought a large attendance of Medical men on Tuesday last, The lecturer pointed out, as a preliminary truth, that the cessation of motion of the body, which we designate death, may be of two distinct kinds, which he called colloidal or pectous, and crystalloidal or glacial. The first of those forms of death is absolute, as far as is yet known, in all animals; the second is not absolute, but in many animals is certainly no more than a suspension of living function from which there may be recovery. In proof of this, he took a carp which was frozen, and which had undergone what would be called glacial death, and restored it to life by gentle warmth. On the subject of death by drowning and cold, a great number of new observations were recorded, on which we do not dwell because they will appear in full in our columns. One exceptional observation must, notwithstanding, have place; it is to the effect that, owing to the sudden exhaustion of the nervous system, on submersion in water at 32°, the death is extremely rapid, and the cessation of consciousness almost instantaneous.

AN UNREALTHY TOWN.

CAMBORNE, a mining town in Cornwall, has of late had so high a death-rate from fever that the public schools have had to be closed, to prevent contagion. Dr. Buchanan, in his report of the state of the town, draws a sad picture of its condition. Nuisances abound; over-crowding prevails; and, practically, there is no drainage. The water-supply is bad and deficient, The adoption of the Local Government Act is the only remedy.

WORKING MEN'S FUND FOR THE EXTENSION OF THE QUEEN'S HOSPITAL.

Ox Saturday last, a meeting was held in the theatre of the Midland Institute, to consider the advisability of making a general collection for the above fund throughout the manufactorics and workshops of the town and district. Speeches were made by several influential persons, and resolutions passed in conformity with the above expressed object.

OVARIOTOMY IN BELGIUM.

Dr. Boddaer, of Ghent, has recently had a case of ovariotomy. We are informed that this is the first successful case which has occurred in Belgium.

REMINISCENCES OF "AN OLD GUY'S MAN."

No. I.—BRANSBY COOPER.

WHILE the "Reminiscences" of Mr. J. F. Clarke are being published by you, I should like to add a few of my own, beginning about the time of the " Bransby Cooper trial, rersus Mr. Wakley." The last-named gentleman had been, I believe, a pupil in one of the Borough schools (I am not aware which), and one of the legends concerning him was that by nature he had a pugnacious temperament, and, indeed, excelled in the art of boxing-an art held in much esteem, no doubt, by those who are adopts in it. However that may be, he certainly showed much tenacity in all disputes in which he engaged, and they were many. I was among those who, as pupils, witnessed the operation for stone that Mr. Bransby Cooper performed on the unfortunate man, and I was one, also, among the "dressers" of the time at "Guy's" who were subposned on the trial. I had already witnessed a considerable number of operations for stone, and I have since operated myself somewhere about sixty times. I can now affirm that, in my experience, two-thirds of the failures in the proper performance of the operation, and nearly half the deaths-- I may probably say, with truth, full half the deaths-have been caused by the operator not having fairly

entered the bladder with the knife before he had attempted and often again and again attempted-to push the forceps into the viscus before there was a way made for the instrument to pass in, and the consequence has been a disruption of the cellular connexions of the bladder and violence done to those This is particularly liable to occur to young or somewhat inexperienced operators, and I myself never attempt to pass the forceps into the bladder until I have felt the tip of pressure receips muo the discourant I have reit the tip of my left forefuger show over the edge of the bladder on the prostate gland. The sensation when once experienced will not be forgotten, and it is the true guide to having fairly entered the bladder. I should consider a young operator as peculiarly unfortunate to find his first case one of so deep a perineum as not to allow him to pass his finger far enough to feel the opening into the bladder. In Mr. Cooper's case, I do not think such was his error; it

may have been so, however, at first, for only the operator himwill know what he does after the point of the kindic he beyond view. At any rate, I know that Mr. Cooper expressed more than once, "He could not say why he did not grasp the stone, when, to all appearance, he was fairly in the bladder." He certainly used the words, "Give mo my uncle's knife," and passed that instrument carefully and quietly into the bladder; then, again introduced the forceps; but still could not grasp the stone. Turning round to a large number of spectators, he said, "Gentlemen, I really do not know why I cannot find the stone, when I know there is one, as we have felt it." one then said, "Press your hand over the pubes." Hills, the one then said, "Frees your hand over the purches. It is, the Surgery-man, did so; and immediately, without difficulty, the stone seemed to be dropped into the forceps, and was wifter drawn. Mr. Cooper's character was wanting in the cuttion and reticence which is so essential in Medical men. He expressed whatever he felt, thinking everyone as houset and open as himself.

The case, as we know, was reported in the then new Lancet, in an unfriendly spirit, and in a manner only too common in the early numbers of that publication.

Mr. Wakley was the known editor, but we always believed that a man named Lambert wrote the reports. Be that as it may, the anger of the students was so roused against the reporter that he was wavlaid, for the purpose of being kicked and otherwise multreated

When the trial was to come on, I remember going with a number of the "dressers" to be examined by a solicitor, or by a solicitor, or barrister, and, having waited nearly to the last, I was going into the room, when Mr. Bransby Cooper came in also, with his rather jaunty manner—his hat a little on one side, as was usual with him (partly, I believe, to hide or shade his injured eye, which had been lost by some accident when a boy). Looking round with his good-humoured smile, he asked, " How do you get on with them?" The lawyer replied, "Why, sir, we must not have them; their young blood is np, and there is not one that would not swear to anything for you. We must not trust them." Not, perhaps, very complimentary to 1st, but certainly showing how much Mr. Cooper was personally liked by the

pupils.

Some time after the trial, that bore so hard upon a thoroughly npright, conscientious gentleman and Surgeon, Mr. Cooper appeared to have got the names of the dressers who were to have been examined as his witnesses, and though personally unknown to him at that time (as I thought myself), he gave each of us the first two volumes of the now Medical Gazette, as some acknowledgment of the trouble he fancied we had been put to, for to a man we had scouted the idea of being paid in any way.

I have continued to take the Medical Gazette to the present day, and I own for some years with a prejudice against the Lancet, though it often contained interesting and important

papers and reports.

I shall never forget the excitement of the school, nor the crush on the benches, and the thrusting of bodies and heads through the trap doors, which at that time opened on to the landing above the operator, in that ill-ventilated, inconvenient meaning accrete discontinuity. In that in ventilated, inconvenient hole called the operating theatre, when a boy was brought in to be operated upon by Mr. B. Cooper—the first after the trial. What & felt I do not know, but I know we all felt for him acutely. To our great joy and relif, the operation was admirably done, he appeared to be self-possessed and steady. admirably done; he appeared to be sul-possessed and steady. Then afterwards there came a case of axillary aneurism in a man—Mr. Cooper's case also. I timed that, as we often did in those days, and in one-quarter of an hour, without hitch orhindrance, the artery was successfully tied above the clavicle A more masterly operation I have never since witnessed.

Then, I think, our hatred of the author of the "famous"

report was at its height, and Bransby Cooper more a hero than

Wittin a year of Mr. Copper's death I again met him in the Museum at "Ony's." where I had last met him, when he gave me the Medical Gazette years ago. I made myself known to him, and he asked every particular about my success, as if I had been intimate before, which was not the case. By some accident, I mentioned his griving me the volumes of the fascette, and that led us to talk of the trial. He told me that trial was accident, I mentioned his griving me the volumes of the fascette, and that led us to talk of the trial. He told me that trial was had been interested by the continuous of the second by Mr. Wakkey to give evitive of Wakkey's, on account of some want, favour of a near relative of Wakkey's, on account of some want, favour of an energy of the was mentioned to the continuous career, which he consented to do. I could not resist asying. Then, sit, you have lived to take a Christian's revenge! "He was much moved, but I found, on further conversation, "Then, did failing health."

Though a young man when I knew most of the staff of Guy's Hospital, I always considered Hr. B. Cooper in the wrong place. He ought to have remained in the army, where he would have been a popular army Surgeon, or a dashing eavairy officer. Not withstanding this. I have often known him make very acute, rapid, and accurate diagnoses; but his great openness, which was that of a student rather than a teacher, exposed him to be found tripping, when a more cautions man, like Mr. Key (particularly before pupils), would not have begin found out. Mr. Key appeared never to have a doubt of himself. If sonce told me, years afterwards, "it was his custom to assert, and not retract; for pupils did not understand doubt, and were after

to go away uninstructed."

I have now, Mr. Editor, reached the chief, if not the only reason for addressing you, and that is, to say a few words and give reminiscences of one who was a better Surgeon, had a more scientific mind, more true physiological knowledge than any of his colleagues—I mean Mr. John Morgan. If you will accept them it will be a labour of love to send a short sketch of his life—not longer, probably, than what has now been said of Mr. B. Cooper and "did times."

HISTORY OF THE FIRST FRENCH VOLUN-TEER AMBULANCE.

By ONE OF THE SURGEONS, Now prisoner of War at Versailles.

In the absence of any news from Paris, and while kept here in Versailles, I propose to give you a short account of the last French Volunteer Ambulance, in which I held the position of French Pollunteer Ambulance, in which I held the position of institution of that kind. The volunteed fitted up for an institution of that kind. The volunteer and the word themselves willing to accept anything not immediately and completely under their control. This prejudice existing, it can be easily imagined how difficult it at first was to receive permission to follow the army, and be officially recognised. The amanagement of this efficient is a indeed everything cless appertaining the theoretical theoretical three control of these ambulances, was the work of M. Jack of the committee when the committee had estimated the committee when the committee when the committee when the committee were gentlemen, noble and benevotent, but quite uncommittee were gentlemen and benevotent, but quite uncommittee were gentlemen and leave to Surgeons what belonged to Surgeons, and to the others the arrangement of money matters. Many a clivide, and leave to Surgeons what belonged to Surgeons, and to the others the arrangement of money matters. Many a clively dependent of the whole, much praise is due to everybody connected with the institution, both gentlemen and ledies.

The members of our ambulance signed their engagement, loserre during the whole duration of the war, on July 25. Its Medical personnel was composed of—1 Surgeon-in-chief, 4. Surgeons, 10 assistants, 12 onder-assistants, and 70 infraniers. The Surgeons and assistants were mounted. The salary allotted to the Surgeons was 400 fr. a mouth; to the assistants 250 fr.; to the under-assistants 150 fr.; and to the infraniers of fr.; riots to be furnished to all. The material consisted of—250 bedsof a remarkably light pattern, and folding together so us to occupy but very little space when not in use: 100

stretchers, with movable headpiece, able to replace a bed in case of emergency; 12 "wholeses," cand composed of two wheels united by an adletree, and provided with springs, intended for short transports, on level ground, of the more severely wounded—the stretchers fitted upon those "wheelers," so that one person could easily hand a wounded man on a good of which was given in a recent number of the Medical Fines and Gazetti, each for twelve beds; a well-accleted stock of medicines, instruments, splints, bandages, etc., etc. For the transport of the whole were eight two-hore carriages; four of these like the French army fourgon, the other four much were exclusively used for the officers baggages, each of as being liquid to the army contine—a little box, about 2½ ft. long, I ft. high, and I ft. broad. There were, moreover, attached to the ambulance two civil engineers and five workmen, for the purpose of dressing tents, etc., but more especially to creet barracks; in case we remarked hour enough in a place to establish and one pastor; mass we remarked hour enough in a place to establish and one pastor;

Our material, though abundant, was in nowise sufficient to last through a long campaign; not dreaming, of course, that communications with Paris could ever be cut, we naturally thought to have things forwarded only as they became neces-

sary.

We were put into a special military train, and sent on to Nancy, August 4, as already stated. M. Nélaton had been to Imperial head-quarters at Mctr. to find out the place where already at that time seemed probable, Nancy was assigned to us as our destination. Our first night out from Paris was passed in the cars (we only reached Nancy in eighteen hours, while the usual time is hat eight hours); the second uight was spent in an open shed near the R. R. depôt, and the third and fourth in camp, outside the city. All this was intended to give our young gestifement of the second uight was spent in an open shed near the R. R. depôt, and the third and fourth in camp, outside the city. All this was intended to give our young gestifement when the second uight of the smake of their mother's chimney, began to think that was not so pleasant a thing after all. Not a few began to grumble, for they had come to do Surgery, and not to endure hardships. Poor fellows, still harder tasks were in store for them. So far, no wounded had fallen into our hands, though laif a dozen tents had been creeted and handsomely litted up for their rehad been creeted and handsomely litted up for their reMacMahon's defeat, reached Nancy, and were placed in the
military Hospital there; consequently, still no work for us.

We had thus been left without the least orders, either from

We had thus been left without the least orders, either from Paris or head-quarters at Metz, for five or six days. MacMahous disasters had so much absorbed the attention of the authorities that our little band of Surgeons was, of course, forgotten. We now started for Metz on our own accord. From the various defeats, up to this time, between four and five thousand wounded had fallen into the hands of the enemy; to try and

wounded had fallen into the hands of the ake care of these was our next attempt.

M. Lefort, the Surgeon-in-Chief of all the French volunteer ambulances, was with ns, and at once applied for an interview with the Emperor, to offer our services. There could be no nobler action, we thought, than to constitute ourselves prisoners nobler action, we thought, than to constitute ourselves prisoners of war for the sake of attending to our countryme left in the enemy's hands. The Emperor readily accepted, and ordered Marsha Bassian to left M. Lofort and myself pass into the Prussian lines. (I had been appointed merely because some one who cause the Cartest at the Marsha and Conference of the thought of the Cartest at the Marsha and Conference on the located in the little village called Borny, two miles and a half from Metz. we received—instead of an escent, as I had from Metz, we received-instead of an escort, as I had thought-a simple sauf-conduit; this happened on August 12. After having ridden some three miles, and nearly through Atter making ridgen some three muce, and nearly through the 150,000 men then there encamped, we heard picket-firing in the distance. We soon came to our extreme out-posts; and just as we were asking the officer in command to cease firing for a few minutes, only long enough to give us time to ride into the enemy's lines, an officer of the staff came galloping up, saying, " Not to pass now; a battle may begin at any moment, and our white flag is liable to deceive the troops Not a soul took notice of us as we had riden towards the front, but coming back we were twice in danger of being shot by onr own men; our uniform was not yet known to the army, and the red cross, afterwards so much abused by both the French and Prussians, was at that time unheard of. As we were returning in the direction of Borny, with soldiers and guns to accompany us-to avoid being again shot at-everybody in camp came running to the roadside to get a glance at what

they thought were two Frussian prisoners. "Foile deux Pausieus!" was said all around us. We carrieve stelly in Metr, where we concluded to wait until a more opportune occasion to pass might present itself. This moment, however, never came, for only forty-eight hours later, near 4 o'clock on the aftermoon of August 14, began the battle of Borny, fought upon the very ground with the stell of the two days previously called apon to for the first time the web day previously called apon to figure in its true sphere.

(To be continued.)

REVIEWS.

Elementary Treatins on Natural Philosophy. By A. Pastyat Discontary, tornerly Professor of Physics in the Lycke Louis to Grand, etc. Translated and edited by J. D. Eventry, M.A., D.C.L., etc., Professor of Natural Philosophy in the Queen's College, Belfast. Part I. Mechanics, Hydrostatics, and Pneumatics. London: Blackie and Son. Fp. 230.

An Elementary Course of Theoretical and Applied Mechanics. By RICHARD WONNELL, B.A., B.Sc.; and An Elementary Course of Hydrostatics and Sound, by the same Anthor. London: Groombridge and Sons. Pp. 238 and 146.

Lessons in Elementary Physics. By Balfour Stewart, LL.D., F.R.S., Professor of Natural Philosophy, Owen's College, Manchester. London: Macmillan. Pp. 372.

We trust that day by day the doctrine we have so long preached is becoming ledears and more acceptable to the minds of mem-we mean the importance of preliminary training, not in Medicine alone, but in all arts and sciences. As there can be no accurate knowledge of pathologic effects without an inlimate knowledge of pathologic effects without an inlimate knowledge of diseased function implies that we know the normal function of an organ; and the study of these two has been too much neglected. Of physiology, some have said that it is no science: that it is made up of applied chemistry and physics; and although, like most sand dicts, the saying is not on the bearings of physical science on Medicine that we now desire to say a word.

If a considerable portion of physiological science consists of applied mechanics, it is surely right that pure mechanics abould be studied before their application is considered; and yet atudents enter on the study of their Profession with, at best, such a smattering of knowledge on the subject of Physics that the unfortunate teacher of physiology is compelled to do the work of an ordinary schoolmaster, when his time is all too short for the business which properly belongs to him. It would be easy to multiply instances, and we shall select a few, the better to impress our views on our readers.

Of the various forms of energy, muscular motion is to the hysiologist one of the most important : yet how is he to explain the modern views to men who know nothing of the conservation of energy? Osmose and the diffusion of gases are surely physical phenomena : yet how is absoption or secretion to be understood without a knowledge of the one, or respiration without an insight into the other? The mechanism of respiration leads, again, to the consideration of atmospheric weight, potential vacua, and such like phenomena, not in any way appertaining to Medicine. But these are as nothing to the time wasted in the study of levers and pulleys as exemplified in the joints, muscles, and tendons of the human body. When the teacher speaks of taste, he must tell of colloidal and crystalloidal matter; of hearing, and straightway, to make himself intelligible, he must teach the elements of acoustics. When he discusses vision, he has first of all to tell what light is, how it is propagated, and how it behaves in passing from medium to medium; lenses must be considered; aberration, both spherical and chromatic, will be something unheard of before to his hearers. Bodily heat leads to the consideration of chemical change in food, and other sources of that form of energy. It might be forgiven to men not to know of the electrotonic condition of nerves; but when they know not the different varieties of electric force, one is

tney know not no uncerent variates of electric torce, one is tempted to exclaim against our system of elevation.

Yet all this might be easily improved off the face of the earth were a proper knowledge of Physics insisted on as a preliminary to the study of Medicine. Something has been done in the way of promoting this study in some of the larger schools; but were the examining bodies to insist on an adequate knowledge of the subject, the means of instruction would have to be supplied in all. Curiously cough, one great difficulty lithtener experienced by public teachers has

been the want of an efficient text-book—such a book, we mean, smight be used by boys whose mathematical lancwidegis in not too extensive. Of books of the highest mathematical class there has been no lack, nor, possessing two works likewhere has been no lack, nor, possessing two works likewhere has been no lack, nor, possessing two works which may be a support the support of the property of the support of the suppose of the scholar, but it may well serve as a text-book of illustrations to the mater. Of Mr. Wormell's books it must be premised that they are specially intended for those preparing for the suppose they are well fitted. (By the way, a considerable number of the engravings are from French sources; yet we can find no acknowledgment of the borrowing.) But the last book is the constitution of nordinary schools. For their own special purpose they are well fitted. (By the way, a considerable number of the engravings are from French sources; yet we can find no acknowledgment of the borrowing.) But the last book is the constitution of the suppose of the

NEW BOOKS, WITH SHORT CRITIQUES.

Introductory Address Delivered at Surgeon's Hall, Edinburgh, November, 1870. By Joseph Bell, M.D.

November, 1870. By JOSEPH BELL, M.D.

On Physical American and able exposition of the status and duties of the Medical Practitioner. We quote the percention:—

"Nor in its practice is ours an easy Profession. Its work is never done. The tradesman may close his shop when like; the artisan drops his hammer with punctuality and alacrity at the welcome sound of the bell; the lawyer leaves his office, and then need work no more; but the Doctor never knows, except during his too short antumn holdsty, the feeling of having finished all possible work, and at last being his own rational content of the profession of the content of the content of the profession of the content of

"You will get message from a distant beat, from which, perhaps, you have just returned with a wearied horse, which messages might have been sent in the morning, and given you no trouble whatever. You will be sent for in haste by nerrous ladies, when possibly your are ill and they are not. You will other be aggravated by finding yourselves requested by charitable ladies to see patients, they getting the credit for charity, you only the trouble of the valit. You will occasionally meet with ingratitude—and so often, however, as we see some—Profession has a cliver lining of respect won by duty, love, and trust, the fruit of sympathy and skill, gratitude for the past, confidence in the future.

"Few relations in life are more honourable and beautiful than those which exist between a sensible, many, and skill nold Doctor and his patients. He has seen the first of the children, the old people hope he will see the last of them. He has been present at every family gathering, and or cheerful; he is the adviser first consulted in trial or difficulty; he slares family secrets with the lawyer, and can even aid the elergyman in his

secrets with the iswer, and can even aid the dergyman in his special work.

"Now, this high, noble, honourable position is absolutely within the reach of every one of you. Industry, honesty, and kindness are needed, and no more.

"We cannot all be rich, or great; it does not fall to every one's lot, or even is in every one's power, to be a Syme or a Simpson, an Abererombie or a Bright; but it is a noble Profession, which offers to all the members a decent competence, respect in life, and regrets in death.

"Nor let us forget that in no-other task on earth could we hope so close to follow the very footsteps of Him who went about healing every sickness and every disease among the about nearing every seemes and every disease among the people; whose prophets and types made the waters of Marah sweet, and the salt-springs of Jeriobo life-giving, cured the sick, and made dead men live; and whose disciples had for a time gifts of healings as the charter and witness of their discipleshin.

"Let us walk worthy of our high calling."

Hamlet : from a Psychological Point of View. By W. Dyson Wood. Longmans.

. Another contribution to the many before-published *. Auchter contribution to the many before-published opinions as to the mental condition of Hamlet. This fertile field of inquiry has been tilled by many able and zealous labourers. The results have been very different in different writers. Was he sanc? Was he insanc? Did he merely assume madieses for a particular object or was his aimld of be balance from the troubles he had experienced? All and each of these has had its advocate. Dr. Wood thus sums up his somewhat moral view of Hamlet's intellectual condition .

"As I have said before, a consistent theory of the evolution of this play is to be found in an examination of Hamlet's character and the circumstances in which he was placed. Hamlet is pictured to us as a young man possessing highly sensitive and emotional qualities of mind, in combination with most refined intellectual insight and subtlety, original reasoning power of a high order, exalted, and at the same time softened, by a brilliant and most delicate imagination; and yet, judged critically, these splendid powers of mind do not appear in their eritically, these spiculal powers of mind of not appear in their perfectly developed form—they seem to be beautiful young buds rather than fully expanded flowers. Whatever notes he touches, be touches brilliantly, and yet lightly, as with the touches, he touches brunanty, and yet nguly, as with the finger of genius, but his songs are more like exquisite snatches of melody than the music of completed conceptions. His noble mind, tentative in its efforts, seems to be waiting and yearning for some favourable soil in which it may germinate, and for problems of thought and policy worthy of its great-

" Hamlet, I think, is deeply interesting to us, not only for his rare exhibitions of mental resources already vouchsafed to us, but also by suggesting the immense reserve force lying, as it were, latent, or partially developed, in the background, waiting only for favourable matter and opportunity on which to excreise itself. It is stimulating to reflect into what a giant he might have grown had his lot been cast in a fair and open the might have grown had mis not occur cast in a rair and open field—say in the world of literature or politics. It is true that he appears to us in the play as a man almost solely of specu-lative and reflective ability, and certainly weak in capacity for action; but this does not necessarily involve our looking upon him merely as a dreamy, brooding egoist, unfitted by his very nature for ever battling with the realities of applied thought and practical life. We see him in that stage of development through which minds of a certain high class invariably pass -the stage of what has been called 'reflective indecision before the conceptions are systematised, before the will has been fashioned, and before the individual has placed himself thinkingly, and, as far as he can, actually, in harmony with the circumstances by which he is surrounded. The will, in so far as it is the instrument and servant of reason, and not merely another name for unreasoning impulse, is not innate, is not a necessary part of our constitution from birth, but is gradually formed and built up as the result of natural development and constantly repeated efforts; until the will is thoroughly fashioned and acts almost unconsciously and involuntarily, the character cannot be said to be complete, and, judged by this criterion, Hamlet's is incomplete, his individuality is not perfect. I prefer to regard him myself as a spleudid specimen of humanity, full of promise, but arrested in his development, and that too in the very best blossoming of his powers; called to a career and placed among circumstances for which he was utterly unfit, driven through want of healthier outlets for his activity to brooding self-consciousness, the victim at last of melancholy and despair. In thinking of Hamlet and his destiny, the sad words of Ophelia come naturally to our lips, "What a noble mind is here o'erthrown!"

THERE is to be a ball at Willis's Rooms on Tuesday, January 17, in aid of the funds of University College Hos-It is to be under most distinguished patronage, from the Princess Christian downwards, and will, we hope, be well supported.

GENERAL CORRESPONDENCE.

"AIDE TOI DIEU T'AIDERA" FROM DR. JOSEPH ROGERS

[To the Editor of the Medical Times and Gazette.] SIR,-The Association for Improving the Condition of the Poor of Edinburgh, in their report dated December, 1870, draw particular attention to the insufficient arrangements for Medical relief in that city, and state that the College of Physicians and Surgeons have taken the question into consideration, with the view of suggesting certain beneficial modifications. Now, although nothing can be more praiseworthy than this action Now. of the Corporation, yet, if its proceedings be confined to the Scotch metropolis, only very limited results will be achieved. May I, therefore, be permitted briefly to address you, with the view of securing a wider agitation of the subject?

That Medical relief to the poor in Scotland is most defective. will be exhibited when I state that \$32,858 only is expended on the stipends, etc., of the parochial Surgeons, from which they have to find all medicines and appliances for the sick poor of a population of 3,188,125, as against £131,000 expended on the popuration of 3,183,120, as against £131,000 expended on the same Service in Ireland for a population of 5,643,285. That it is false economy is shown by the fact that by the last return of the Sootch Poor-law Board (that of 1868) the aggregate amount of poor-rate, inclusive of Medical relief, was £863,202, or of poor-rate, inclusive of alcalical relief, was £893,202, or 58. 74d, per head of population, as against £829,521, or 2s. 114d, per head of population (the cost of Medical relief being in-cluded) for the sick poor of Ireland—that is to say, in round numbers, the poor of Scotland cost nearly twice as much to maintain as those of Ireland.

That the insufficiency of the stipends and the generally imperfect character of the Service has attracted the attention of other than merely Professional observers, is shown by the circumstance that at the annual dinner of the Poor-law Medical Officers' Association last July, the Honourable E. S. Gordon, in returning thanks for the House of Commons, said "that he was a member of that body in Scotland which was analogous with the Poor-law Board of England, and he was ashamed to what the foot-law board of raignant, and no was assumed to see the miscrable stipends paid to men of that Profession in roturn for important services. It was impossible for that Board to pay more, but he believed that attention was being directed to the condition of Medical men, and he trusted that remedies would be found for existing evil."

In point of fact, the Scotch Poor-law Medical Service labours In point of fact, the Scotch Poor-law Medical Serrice labours under exactly the same disadvantages (except that they are a shade more aggravated) that the English Serrice does, and which the Poor-law Medical Officers Association was origi-nated to remove. Hitherto, as you know, our labours have been attended with the most gratifying results, and we have good reason to believe that, before a great while, most of the grivaness of which we justly complain will be largely diminished or altogether removed. Now, I would counsel our Scotch brethren to form an association having similar objects; surely it is a desirable movement, when it can be shown that an improvement in the status and remuneration of the Service would lead to a diminution of suffering amongst the poor, and a curtailment of the excessive expenditure on poor relief!

There can be no doubt that an association framed on the same principle as ours would not only effect much local good, same principle as ours would not only where must not only but would also be able to render very valuable assistance to us; and for this reason, hitherto, we have found that the English M.P. is ofttimes deterred from taking Parliamentary action in our favour, from fear lest he might excite an adverse political influence from the Boards of Guardians of the city or county he represents. A dread of such consequences would not affect the member for a Scotch constituency, and, therefore, if locally solicited, he could safely support us. That this view is correct was shown by the fact that, in the late debate on the Superannuation Bill, several Irish members took a prominent part, to which action they were stimulated by certain Dispensary Physicians in Ireland, in return for similar good offices from us when their Bill was under Parliamentary consideration. Since then, an Association of Irish Medical Offiours has been formed, whose members are distributed pretty equally over the island. With that Association we have proposed to establish an entente cordiale, with the view to an effective interchange of Parliamentary action for the redress of each other's grievances. Now, could we get our Scotch brethren to do the same, we could work the House of Commons in such a way that, though we might gratefully accept the aid of the Corporations, we should seen by in a position to do without them.

In conclusion, allow me to state that, if my suggrestion should lead to action, I should be most happy to said action a move ment in every way in my power; and if it is domed to meet with no collective response, then, seeing that we still have after all certain common objects—these being the good of the power the advantage of the ratepayer, and the improved status of a very considerable section of our common Profession—the Association over which I have the honour to preside will welcome to its ranks all such Scotch Poor-law Medical Officers as may be disposed to join us in our efforts.

I am, &c., JOSEPH ROGERS,
President of the Poor-law Medical Officers' Association.
Dean-street, Soho, January 3, 1871.

CAMBRIDGE EXAMINATIONS.

To the Editor of the Medical Times and Gazette, Str.,—Re-ferring to your recent remarks on the late Cambridge M.B. examination papers, will you permit me to relate an anecdote bearing upon the very point under discussion between yourself and Professor Humphry, M.D. My esteemed Firend the late Mr. Burchan, one of the me-

My esteemed friend the late Mr. Burchaus, one of the metropolitan police magistrates, who was third in the first class of the Classical Tripes at Cambridge the same year (1830) that Dr. Wordsworth, the present Bishop of Liuroln was first, was alterwards appointed, I believe, amongst the first examiners for degrees at the newly-chartered London University.

Mr. Burcham, who was at the time of his appointment a Fellow of Trinity College, Cambridge, was examiner in classics and moral philosophy at the Louison University for, if my memory serves me truly, nearly twenty years, when he voluntarily resigned. I mention these facts as evidence of the weight that must attach to his opinion on all matters relating to public examinations and their practical effects.

Upon celling upon him one day. I saw on his table a pile of London University BA. examination papers, and, glarcing at their contents, I observed, "If these papers are for a mere pass degree, they would plack more than half the Cambridge men." "Ah!" observed Mr. Burcham, smiling, "You only see the questions; but you should see the annexer. "He continued, "In order to give such a character to the London degrees as "In order to give such a character to the London degrees as "In order to give such a character to the London degrees as "In order to give such a character to the London degrees as "In order to give such a character to the London degrees as "In order to give such a character to the London degrees as "In order to give such a character to the London degree to whether the work of th

These observations, I apprehend, must equally apply to Medical examinations. If none but men of great ability and considerable attainments could pass then, the public would lose the services of many an efficient but perhaps not apecially gifted Practitioner. The same might be said of every other produced. A server ceredic less at starting would exclude produced to the server ceredic less at starting would exclude I venture thus to endouse the views of my late friend.

A CAMPRIDGE MASTER OF ARTS.

P.S.—Donbtless the standard of answers has since been raised, but that merely proves a general advance in education; it does not affect the argument generally.

REPORTS OF SOCIETIES.

ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

SATURDAY, DECEMBER 17.

DR. DRUTTT, President, in the Chair.

Dn. Ginnox asked leave to introduce a lady Physician, but the permission was not granted, on the ground that the subject of the presence of ladies at their meetings had been already discussed at the General Purposes' Committee, and unanimously refused.

Mr. Liddle spoke of the necessity of having power to remove

dead bodies from houses, and to order the people to go out, that

the houses might be properly disinfected.

Dr. TRIPE said that, in parishes where there was no mortuary, it was still possible to obtain an order from a magistrate for immediate burial; the expense could be recovered from the family.

family.

Mr. LIDDLE said that, at the London Hospital, separate slieds had been erected for the isolation of small-pox patients, with great advantage.

Dr. Ginson approved of Mr. Liddle's suggestion, and thought that every Hospital ought to be provided with separate buildings of the kind.

Dr. Stylesson next made his report on Chloralum as an Antiseptic and Disinfectant, as proposed by Professor Gamice and submitted to the Association. Dr. Stevenson said he had examined the openieme handed to him, and found that the substance, aluminic shloride, was not new to chemists. It declories more compounds, perhapt, because if fixes mimotile and organic ammonias. In its antiseptic properties if seemed to be like many other mineral saits. It stopped putr-factive change to a great extent, but seemed inferior to carbolic acid, it was difficult to determine whether it had disinfectant powers: probably it had. De Stevenson thought that, in any case, its expensiveness, as compared with earbolic acid and other discontinuous control of the state of advantage in the case of dead bodies, where the preservation of robour was of importance.

At this point Dr. Druitt was called away, and Dr. Tripe took the chair.

Professor Ganoze said that he had been assured by Br. Augus Smith and others that this was almost an untouched subject. He claimed for chloralum a superiority over carbolic acid on account of its interfessiveness such harmlessness, and because the strength could be moderated at pleasure. It was annicable to the times as many variouses, as carbolic acid and

applicable to ten times as many purposes as carbolic acid, and could eventually be manufactured at one-third the price.

Dr. Albas read a paper, entitled, "Scarlet Fever, for Ten Years, in the Parish of St. George, Hanover-square." Dr. Aldis first called attention to (1) the population of St. George's, (2) its elevation and area, and (3) its geology. The total population of the Hanover-square and Mayfair districts in population of the framover-square and anythin distinct in 1861 numbered 32,418, while the Belgrave contained 55,609. The inhabitants of the latter district increased at the rate of 1500 a year; those of the two former remained almost sta-tionary. The elevation of the Hanover-square above highwater mark is computed to be 64 feet; of Mayfair, 56 feet; of Belgrave, only 12 feet. Comparing areas, there is only a dif-ference of one acre between the Belgrave district and the other two united. In respect of the geology of the parish, the soil of Hanover-square, Mayfair, and Belgravia consists almost entirely of gravel and sand, while that of South Belgravia is formed of made earth, gravel, and sand, situato upon alluvium. The deaths in the parish from searlet fever during the four quarters of the past year were—in the June quarter, 1869, 6; September, 1869, 15; December, 1869, 22; March, 1870, 21; total, 64. Deducting 8 non-parishioners who died in Hospitals in the parish, there remain 55 deaths. Of these, 12 occurred in the Hanover-square, 8 in the Mayfair, and 34 in the Belgrave sub-district. The question of the admission of contactions diseases into Hospitals reminded him, Dr. Aldis said, of two cases in 1865, in which scarlet fever was contracted by two boys while staying in St. George's Hospital for the cure of other complaints. He likewise ascertained, a few days ago, that cases of scarlet and other fevers are still admitted into the wards of some Hospitals containing patients affected with other diseases.

As to model lodgings, there was one of these establishments in his parish, in which there was a deficiency in the general sweep of air over the whole building. Here twelve cases of searlet fever occurred, while in another erected under proper conditions not a single case arose. Respecting the coincidence of contagious diseases in the same house, Dr. Aldis gave a history of six or seven months of illness from scarlet fever, typhns, and small-pox, in a most crowded and ill-ventilated house, in which the greatest exertions were needed to get the people to make any move for their own benefit. With regard to the statement of the Registrar-General in January last, to the effect that scarlet fever had been more fatal last year than in any previous year since registration commenced, the author gave the figures for his own parish, from which it appeared that 1861 was by far the most fatal year. Dr. Aldis likewise called attention to the fact that, out of 499 persons who had died of this disease, he found that 476 were under 20 years of age. The greater number of deaths in the Belgrave district, compared with that of other districts.

he attributed to the rapid increase of population and of new houses, to its lower level, and its geological features. As to the means of prevention of scarlet fever, there was no doubt that isolation was among the best; but without honses of refuge it was difficult to effect this, especially among the poor. They often conceal the disease, and break promises of taking their children to the Hospital, although living in the kitchen with their children, and letting the rest of the house to lodgers. In his own practice, Dr. Aldis said he never thought it necessary the isolation sufficiently effective when he allotted apartments the isolation sumericulty energity when ne anotice aparaments on separate floors to the sick and the healthy, and prohibited intercommunication. On the same principle, special carriages ought to be provided for the removal of these patients to Hospitals. Suitable apparatus for disinfection is likewise necessity. pitals. Suitable apparatus for disinfection is likewise necessary; and the poorer classes especially ought to have a constant supply of water. The principal disinfectant he used was sulphurous acid (for which he quoted Homer, "Odyssey," book xxii,, as an authority), carbolic acid, M'Dougall's Powder, and Condy's Fluid.

Dr. TRIPE said that isolation could be effected if the patients could be got to live in separate rooms, shut off from the rest of the family, and were not allowed to mix with them too soon. He also objected to patients being removed to Hospitals in an upright position.

Professor Gamore then read a paper on "Country r. Town Milk," which will be printed in extens

Dr. Balland read a paper on "Pemphigus caused by Inoculation from the Teats of a Cow." This will be found in another column.

MEDICAL NEWS.

APOTHECARIES' HALL.—The following gentleman passed his Examination in the Science and Practice of Medicine, and received a Certificate to practise, on Thursday, December 29, 1870 :-

Garland, Henry, Walworth-road.

The following gentleman also on the same day passed his First Professional Examination:—

Bland, William Charles, St. Bartholomew's Hospital.

APPOINTMENT.

• • The Editor will thank gentlemen to forward to the Pub-lishing-office, as early as possible, information as to any new Appointments that take place,

Vachell, C. T., M.B. Lond., L.R.C.P., M.R.C.S., L.S.A.—House-Surger to the Glamorganshire and Monmouthshire Infirmary and Dispensary.

MILITARY APPOINTMENTS.

ROYAL ARTILLERY.—Staff Surgeon Edwin James Hopwood to be Surgeon, vice William Younge Jeeves, placed on half-pay, October 28, 1670.

rice william Younge deeves, pasced on Bair-pay, Octoor 28, 1870.

GRENADEE GLASSD-Battallon Surgeon Arthur Gay Ekkington to be Surgeous-Major, rec James John Majoribanke Wardrop, who retires on bail-(rsy). Assistant-Surgeon-Francis B. Baker, from Socie Paulier Balley, and the Battallon Surgeon, see Ekkington; Staf Surgeon William Balph Lannet be Curgeon; January 4.

Scors Fusilies Guards.—Staff Assistant-Surgeon James Chatterton, M.D., to be Assistant-Surgeon, vice F. B. Baker, promoted Battalion Surgeon in the Grenadier Guards; January 4.

357H FOOT.—Surgeon Charles Walter Poulton, M.D., having completed twenty years full-pay service, to be Surgeon-Major, under the provisions of the Royal Warrant of April 1, 1867; December 13, 1870.

56TH FOOT, -Staff Assistant-Surgeon William Lougheed to be Assistant-Surgeon; January 4.

Surgeon; January 4.

Surgeon — Staff Assistant-Surgeon William Nash, M.D., to be
Assistant-Surgeon; January 4.

Assistant-Surgeon; January 4.

MBOICAL DERAFRIENCY.—Massistant-Surgeon William Ralph Lanc, from
the Greandier Guards, to be Staff Surgeon; Quartermaster-Sergeant
Francia Daney Hamilton, Royal Engineers, to be Apothecary to the
Forces, vice Edwin Richards, deceased; January 4.

BIRTHS.

ATRINS.—On December 30, at Weston-super-Mare, the wife of Henry Atkins, Eaq., Surgeon, Her Majosty's Bombay Medical Service, of a daughter.

On January 1, at Chester, the wife of Wm. M. Dobis, M.D., of a daughter.

Gogoos. - On November 24, at Meerut, Bengal, the wife of H. G. Gordon, M.D., Deputy Inspector-General of Hospitals, of a son. JUNES.—ON January 1, at Prittlewell, Essex, the wife of George Francis Jones, M.R.C.S., of a son.

Jones, M. R.C.S., of a son. Kyaos.—On December 28, at 9, Highgate-road, Kentish-town, N.W., the wife of Sydney H. Knaggs, M.R.C.S., of a son.

Moora.—On December 25, at Brympton-villa, Gransda-road, Southsea, the wife of Dr. George Moore, Staff-Surgeon, Royal Navy, of a daughter.

Rowett, -On November 9, at View-place, Sugapore, Straits Settlements, the wife of T. Irvine Rowell, M.D., of a daughter.

SUTTON.—On December 30, at the Norwich Borough Asslum, the wife of Frederick Sutton, Resident Medical Superintendant, of a son. Walker. On December 23, at Peterborough, the wife of T. J. Walker, M.D., of a daughter.

M.D., of a daughter.

Whatth: -On December 30, at 33, Vermon-terrace, Brighton, the wife of Edward Whately, M.R.C.S., of a daughter.

Whillanson: -On December 27, at Clarendon-villa, Mildmay-park, N., the wife of James Williamson, M.D., of a daughter.

WORTHINGTON.—On December 25, at Worthing, the wife of Dr. Worthington, of a daughter.

MARRIAGES.

MARILAOES.

BESSETT-NORMAN.—On December 29, at Chapelized Church, County Dublin, Edward Hallaran Bennett, M. D., to Frances, elderst daughter of Conodify Norman, Leq., of Riverdadis, Palmerston, County Dublin, Javenes—Phirotza—On December 23, at 4, Albert-terrace, Elimburch, Javenes—Phirotza—On December 23, at 4, Albert-terrace, Elimburch, Late Robert Proposal, D. R. M., Yol Ghazheth, younged daughter of the Late Robert Proposal, D. R. M., Vicander, S. M. B. (1997), Norw Plentweit, M. D. (1997), Univ. Elin, to Jennic, clotert daughter of the late Colonel James Davidson, 38th Madries N. J., H. ELCS.

THOMAS—SHIFFARD.—On December 29, at 8t, Bartholomew's, Sydenham, William Thomas, F.E.C.S., of Bradford-street, Birmingham, to Mary Elizabeth, eldest daughter of Thomas Sheppard, Esp., of Laurie-parkgardens, Sydenham.

gardens, sydenham.

Tonsuax — Hassasax — On December 28, at the parish church, Brighton, by the Hev. Albert Workman, brother of the bridegroom, assisted by the Hev. Albert Workman, brother of the bridegroom, assisted by the Hev. H. Snowdom Smith, Charles John Workman, M.D., son of the late:

T. Skete Workman, Eq., of Reading, to Emily Elizabeth, second dangelater of H. Hebbert, Eg., late H.M. 's Bonbay Civil Service.

DEATHS.

Genor, Joseph, M.B., of Caius College, Cambridge, Chief Medical Officer to Sir Samuel Baker's White Nile Expedition, fourth son of Johnson Gedge, Esq., of Bury St. Edmunds, at Khartoum, Central Africa, on October 21, aged 28.

HRTLEY, MARY, widow of the late Bichard Hetley, Esq., of Maida-valc, and mother of Frederic Hetley, M.D., at Norbury-lodge, Upper Norwood, Surrey, after a few days' illness, on December 29.

Scann, R. T., Surgeon, at Bishops Stortford, suddenly, age 61, on Jan. 1. SPREUT, ROBERT, Surgeon 40th Regiment, at Winchester, on January 3.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession, made, and the day of election (as far as known) are stated in succession. Charmo-cons illustrata, Ware Faran, W.C.—Assistand-Physicians, Charmo-cons illustrata, Park Faran, W.C.—Assistand-Physicians of Green Medical Council, and be a Fellow or Member of the Royal College of Physicians of Landon. The effice of Assistant-Surgeon is also weard. **Candidates must be Fellows of the Royal College of Surgeons Council College of Surgeons of College of Physicians of Landon College of Council College of Surgeons of College of Surgeo

January 91

COUNTY DOWN INFIRMARY AND FRVER HOSPITAL.—Resident Registrar and Surgeon's Assistant; must be duly qualified and registered. Applica-tions and testimonials to James Simans, Eq., Registrar, on or before January 10.

DESTAL HOSPITAL OF LONDON, 32, SOHO-SQUARE, W.—Assistant Dental Surgeon. Applications and testimonials to the Hon. Sec. on or before

January 12. Bestylk for Children vod Dispansary for Wores, Leart Loxone Bestylk for Children vod Dispansary for Wores, Exercised vod Children vod

GUISBORGOUS UTION.—Medical Officer wanted for the Danby District. Candidates must have the qualifications prescribed by the General Orders of the Poor-law Board, and be registered. Applications and testimonials to W. Weatherill, Esq., Clerk, on or before January 10. Election the

same day.

"Hambarado" Hospital Ship for Seamen of All Nationa, Poet of Cardiff. Besident Assistant Medical Officer; must possess a Surgical qualification, and be unmarried. Applications and testimonials to D. Roberts, Edq. 17, Church-street, Cardiff, on or before January 16.

HOLDORY UTION.—Medical Officer for No. 1 District. Candidates must possess the qualifications prescribed by the General Orders of the Poorlaw Board. Applications and testimonials to Mr. J. W. Hill, Clerk, at the Workhouse, Gray's-inn-road, W.C., on or before January 10. INFIRMARY FOR CONSUMPTION.—Visiting-Physician; must be M.R.C.P.L. Applications and testimonials to the Secretary.

Apprections and testimonials to the Secretary.

BOYAL HAFFS CONEYT HOSTIGA, WISCHMETE, —HOuse-Surgron and BOYAL HAFFS CONEYT HOSTIGA, WISCHMETE, —HOuse-Surgron and England, or the Surgical diploma of a Royal College or a University of Socilland or Irahand, and, also, either a lievence from the Boyal College and testimonials to W. A. Richards, Esq. Secretary, on or before January II.

ROTAL SUBBRY COUNTY HOSPITAL.—Honorary Medical Officer. Applica-tions and testimonials to the Hon. Sec., the Rev. C. R. Dallas, Farncombe Rectory, Godalming, on or before February 23.

ROTAL SOUTH LONDON DISPENSARY, St. GEORGE'S-CROSS, LAMBETH-ROAD, S.E.—Honorary District Surgeon. Applications to Mr. Hentsch. UNIVERSITY OF DURHAM, COLLEGE OF MEDICINE, NEWCASTLE-ON-TYNE.

— Medical Tutor. Applications and copies of testimonials to Mr. Luke
Armstrong. The duties will commence after the Christmas vacation.

POOR-LAW MEDICAL SERVICE.

. The area of each district is stated in acres. The population is computed according to the last census.

computed according to the last census.

Motion Meeving Trian EMBIONATIONS.
Motion Meeving Trian EMBIONATIONS.
**Motion Meeving District: Mr. Burford Norman has resigned the First Malton Meevings District: Mr. Burford Normanion. Mr. Jones Roberts has resigned the Wallban District; area, 17,041; population, 307; salary £60 per ansum.

**Theory Consultation, 307; salary £60 per ansum.

**Theory Consultation, 207; Mr. E. M. Tyrugen bear ansum.

**Theory Consultation, 207; Mr. E. M. Tyrugen Per ansum.

**Theory Consultation, 207; Mr. E. M. Tyrugen Mr. Consultation, 207; Mr. Consultation,

First District.

Essingtes Union.—John E. L. Macdonald, L.R.C.S. Dub., L.R.C.P.

**Edin., L.A.H. Dub., L.M., to the Thorniel Pistrict.

Presbens Union.—Horsec E. Haynes, M.R.C.S.E., L.S.A., to the Third District.

District.

Hartley Wintney Union.—Thomas J. Burroughs, L.R.C.P. Edin.,

M.R.C.S. Eng., L.S.A., to the Crondall District.

Holbern Union.—George E. Yarrow, M.R.C.S. E., L.S.A., to the St. Luke's

Workhouse. Workhouse.

Islington Ferish.—Frederick O'Conor, M.D. St. And., L.F.P. and S. Glasg.,
L.A.C. Ire, to the St. Feter's District.

Poplar Vision.—Herbert John Fanuset, M.B., M.C. Dub., to the West

Westemprett Union.—Richard O. Arnold, L.F.P. and S. Glasg., I.S.A. Lond., to the Rumboldswhyke District. Nathaniel E. Cresswell, M.D. Univ. St. And, M.R.C.S. Eng., L. B.A., to the Manhood District.

DR. BARNES has been elected an Honorary Member of the Medical Society of Victoria.

THE new Infirmary and Dispensary in Virginia-street, Southport, was formally opened on Monday.

On Friday evening last, Dr. Acland, the Regius Professor of Medicine at Oxford, at the invitation of a number of working men of the city, delivered in the Town-hall a free lecture on "Hospitals, and their Management."

MR. S. J. F. STAFFORD, M.R.C.S. Eng., has been presented with a handsome silver salver by the members of the United Lodge of Odd Fellows, N.O., Great Yarmouth.

MEASURES are being taken to establish a Medical school in connexion with the University of Sydney. DURING the month of December last, the Fishmongers'

Company seized 19 tons 15 cwt. of diseased fish, unfit for human food.

IT is stated that from 75 to 100 British subjects die every twenty-four hours from snake-bite, and it is for Government to make up its mind whether it will put a stop to this state of things or not. It can only put a stop to it by means of a large and steady outlay.

A CHILD two days old was poisoned by the nurse in consequence of her substituting laudanum for castor oil. A verdict of "death from misadventure" was recorded, but surely the mistake was one that ought never to have been made.

FEVER IN IRELAND.—Fever is reported to be prevailing in Galway and the West of Ireland. The Poor-law Commis-sioners have despatched a Medical inspector to Keelkile, co. Galway, to take such steps as may seem necessary to oppose the epidemic.

PHTHISIS .- During the four weeks ending October 10, twenty deaths occurred in the Melbourne Hospital. Of these three were occasioned by phthisis. The persons who died of consumption had resided, respectively, four, eighteen, and four years in the colony, or an average of eight and a half years each.

LADY MEDICAL STUDENTS AT EDINBURGH. - The uestion of the admission of lady-students to the wards of the question of the admission of lady-students to the wards of the Royal Infirmary of Edinburgh came up for discussion; pester-day at the election of managers for the year. Two lists were submitted, and at the close of a long discussion, in which Mrs. Henry Kingsley and Miss Jex Blake took part, 100 voted against the admission of ladies, and 96 in their favour. The votes will be scrutinised.

MEDICAL NEWS FROM CEYLON .- Assistant Colonial Surgeon Dr. Vandort is appointed Lecturer on Anatomy in the Medical School, vice Mr. Andree, removed to Kandy. The Secretary of State has offered Dr. Coghill, through the local overnment, an appointment at Hong-Kong, with a considerably higher salary than that of the fixed office in Ceylon; but the prospect of promotion in view of approaching changes will, perhaps, induce this efficient officer to remain in the Ceylon service.

HONORARY MEDICAL OFFICER TO THE ASHTON DISTRICT INFIERARY.—At the monthly meeting of the Board of Governors of the Infirmary, held on Wednesday, Enoch Robinson, Esq., of the infirmary, held on Wednesday, Enoch Kobinson, Eq., of Dukinfield, was unanimously elected an honorary Medical Officer of the Institution. This appointment will grarify a great number of people in the township, particularly those connected with the coal mines, to which Mr. Robinson has long held the appointment of Medical Officer with great approbability of the property of tion and respect .- Ashton News.

HEALTH OF HALIFAX .- For some weeks past the mortality of this town has been so great that the deaths have actually exceeded the births. For the last fortnight the acuany excessed the births. For the last fortnight the death-rate has risen to the terrible amount of 49 per 1000. During the corresponding fortnight last year the death-rate peridemic; 28 fatal cases of sear-latin have occured in the like period. Last year the death from searlet fever amounted only 10 3. There were 19 death from bronchitis, against 7 last to 3. There were 19 deaths from bronchitis, against 7 last year. No inquiry into the cause of the rate of mortality has been yet made, but the rate now is 52 or 54.

PROPERT LIBRARY, EPSOM COLLEGE.—This library has been completed, and was opened a few weeks ago to the boys. A sum of between £300 and £400 had been collected among the past and present Epsomians, and this has had to be expended in payment for the bookcases and fittings to the room, so that the supply of books will have to be provided for room, so that the supply of books will have to be provided for by future funds. It is hoped, however, that donations will be freely made by those interested in the institution, and such should be sent to the Rev. the Head Master, or to Mr. Wag-staffe, the Treasurer, 122, Kennington-road. The room is a very handsome one, and will form a very attractive feature in the school.

PRESENTATION TO A MEDICAL PRACTITIONER .- On Tuesday week several gentlemen met at the "Denman's Head," at Sutton, in Ashfield, near Mansfield, for the purpose of presenting Dr. Curran, who is leaving that place for Mansfield senting Dr. Curran, who is feaving that place to manuscrim. Woodhouse, with a testimonial of esteem and respect, which a residence of eighteen months had gained for him. The articles presented were, a massive gold chain, with ornaments set with a bloodstone and onyx, a ring set with a large carbuncle, and a Surgical instrument of considerable value. Charles Oscroft, in making the presentation, passed a high culogy on the recipient, who replied in a few simple but eloquent words

THE authorities of the Hospital for Sick Children, in Great Ormond-street, Bloomsbury, have resolved-" That the practice of the Hospital be thrown open gratuitously to the pupils of the different Hospitals and Medical schools in London; but that not more than four from each school be London; but that not more than four from each school be offered the privilege at one time. That the admission be limited to a period of three months, but be renewable on application. That the pupils so admitted bring with them recommendations from one of the Medical officers or teachers of their school, and that they receive from the House-Surgeon a ticket authorising them to attend the practice. That the names of gentlemen so admitted, with the date of their admission, and the school with which they are connected, be entered in a book; and that, if their attendance be regular, they shall receive a certificate testifying to such attendanat, in order to render such visits more useful, each of the senior Medical officers engages to give clinical instruction at the bedside, or after the visit, once a week." This arrange-This arrangement will commence on Tnesday, January 17.

ROYAL COLLEGE OF SURGEONS .- It will doubtless

surprise the readers of the Medical Times and Gazette, especially the Fellows and Members of the College, to learn that no essays have been sent in this Christmas, either for the Collegial-Triennial or Jacksonian Prizes; the subject for the former was "The Anatomy and Physiology of the Organs of Taste and Smell in the Mammalia." On turning to the College calendar it will be seen that no award has been made for this prize since 1858, when it was carried off by Dr. Harley. For the Jack-sonian Prize the subject was, "Humorrhagic Diathesis and Spontaneous and Accidental Humorrhage." There has been Spontaneous and Accidental Hemorrhage. There has been no award for this prize since 1867, in which year there were two, the recipients being Mr. C. Heath and Mr. W. J. Smith, The Jacksonian Prize for the present year will be adjudged to the author of the best essay on "The Treatment of Wounds after Operations, including the Λrrest of Hæmorrhage, primary The dissertations must be sent in before. and secondary. Christmas next, when it is hoped the Committee will not again enjoy a sinecure in having no essays to read.

HOSPITAL STATISTICS .- In the thirty-sixth report of the Glasgow Lying-in Hospital appears the following passage:

"As has been remarked in former reports—and it cannot be too strongly insisted on-the statistics of the Hospital do not warrant any conclusion based upon a comparison of the mortality of cases delivered in Hospital and those delivered in the mothers' homes. This year's returns show an in-door mortality of 1 in 674, while the out-door cases exhibit an apparent mortality of 1 in 139. It must, however, be borne in mind that, while the in-door returns are perfectly accurate, those of outdoor cases, as far as mortality is concerned, cannot be youched for as being even approximately correct. This defect in the re-liability of the out-door statistics is common to all similar institutions, and results from causes over which the Medical officers can exercise little or no control. It must be evident to all acquainted with the conditions of out-door attendance by students, that, from various causes—such as neglecting to return the re-ports of cases of delivery, inability to attend a dangerous and protracted case till it terminates either in recovery or death, occasionally the removal of the patient to the poor-house, etc .the returns are necessarily imperfect. Thus, our records cannot the returns are necessarily impersect. It is, our records earnot possibly present proper data on which to ground any conclusion whatever regarding the comparative mortality of Hospital and home deliveries. While on the subject of statistics, your Medical officers may state that the records of the Hospital are kept with great care, and the results periodically published in the columns of the Glasgow Medical Journal. This feature of the institution will not be undervalued by those who have studied the relation of thoroughly reliable statistics to some of the most interesting and important obstetric problems which at present attract so much attention throughout the Profession.

NOTES, QUERIES, AND, REPLIES.

De that questioneth much shall leuen much .- Bacon.

- Mr. Frank Godfrey, Gibraltar .- Your letter, with enclosure, has come to
- Dr. D., Constantinople,-The papers must be sent through the post in future, as they cannot be sent through the Foreign Office.
- S .- Dr. E. Ballard, M.D. Lond., Medical Officer of Health for Islington, must not be confounded with Dr. Thomas Ballard, M.D. St. And., who practises at Paddington.

Orres

- TO THE EDITOR OF THE MEDICAL THREE AND DARFTY.

 Nis,—Two brothers married two siders; would a marriage between their
 children thein sides of the married two sides; which is the side of colinary cousins. And is there sufficient proof that such a marriage
 would probably be productive of marked deterioration in offspring!
 under the side of the
- N. M. must possess the double qualification.
- R. T. can appeal—the case is doubtful.
- Q.—The Dr. Ballard who has a theory of sucking, and never saw a case of infantile syphilis, is not the author of the pamphlet on Milk and Typhoid.
- A.R. C.—We had nothing to do with the supplement in question, and never saw it before. We believe "elimatic instruments" are respirators, and that the paper is an advertisement-a very obscure one we confess.

THE DUTIES OF AN ASTICLED PUPIL.

- TO THE SOTTOM OF THE MEDICAL THEM AND OAIRTHE.

 SIR,—Having seen in your journal of the 20th inst. a paragraph styled
 "A Yorkshire Apprentice," yating that "menial offices its those specified
 cannot legally be required," I would sak for the names of some of those
 menial offices, as I am sure I have a great many things to do which are very cannot legally be required, increasing the property of the provided of the property of the property of the property of the provided of the property of the pro

- J. G. H.—The respirators usually considered the best are those of Jeffrey's, Cheaper ones are to be had at most chemists. The cheapest of all, and effectual as any, is the habit of breathing through the nose alone. Read a little book called "Keep your Mouth Shut," by Catlin, to be had of Trülmer, Paternoster-row
- W. H.—The guinea is, we believe, conduct-money, to pay travelling expenses, and should be excluded from the calculation. For the other services, cleven guineas is the smallest sum which, we think, you ought to charge consistently with your position and the circumstances
- Sigma. The Lettsomian Lectures were not founded by Lettsom, but instituted a few years since by the Council of the Medical Society, in honour of one of its founders, and the greatest of its benefactors. Lettsom's library was one of the richest in old works in the kingdom, and this he bequeathed, together with a house in Bolt-court, to the Medical Society.

THE MEDICAL COUNCIL AND MEDICAL REPORM.

- TO THE EDITOR OF THE MEDICAL TIMES AND GARATTE.
- The Mauscal Coercit. AND Mauscal Resons.
 Sin. Well Edition of The Mauscal Coercit and Mauscal Coercit and Social Coercine C

- M.A. Castab.—There were about 350 candidates, and, considering the very large number of papers to be examined, the result cannot be known until
- about the end of the ensuing month. On making application to the Secretary he will send you the enbjects for 1871. M.D., Calcutta.—Your good opinion is very gratifying. The order on your agent has been received by our publisher, who will send the numbers
- from the commencement of the ensuing volume to the address indicated, Your will find the cases to which you refer in vol. xxix. of the Medical Times and Gazette.

SUPERANKUATION FOR POOR-LAW MEDICAL OFFICARS.

- TO THE ADTOR OF THE MEDICAL THESE AND GLARTE.

 FOR —As there is a movement amongst the Providew Officers of London and Lo
- it for two men atter 50 years or age can no vasses seen.

 I hope and trust that the entanting session will not be allowed to pass without a Bill becoming law, and I hope that Dr. Brady will see that bill becoming law, and I hope that Dr. Brady will see that bill that you have been seen to be a because the seen of the

Baker-street, December 30, 1870.

- A Candidate, Flymouth,-The result of the recent examination in Arts, etc., for the diplomas of Fellowship and Membership of the College will be sent to all candidates about the end of the present month.
- An Old Guy's Man ,- Mr. Bransby Cooper received £1500 from the College of Surgeons in 1843 for the museum of his uncle, Sir Astley Cooper. The same institution possesses by purchase the collection also of Mr. George Langutaffe
- Errata.-In the last line of an advertisement of the Cheltenham General Hospital, in last week's issue, for "on Saturday, January 31, 1871," read "on Saturday, January 21, 1871." By a printer's error, the Royston Cottage Hospital was put down as being in Herefordshire instead of Hertfordshire.

Me Hi Lo | Marie | Marie | Marie

- Dr. M., Foscey, Cornwell,-On and after April next, all candidates for the diploma of Membership of the College of Surgeons will, we are informed, be examined on patients at the bedside, or in the out-patients' rooms. Write to the Secretary respecting the prizes.
- A Papil, under the agreement, is entitled to a reasonable allowance of time for study. Surely, a simple remonstrance is all that is required to obtain it !

COMMUNICATIONS have been received from

COMMUNICATIONS have been received from—
Mr. W. Jaccoso; Dr. J. Wilson; Mr. C. A. Perines; Mr. A. S. G.
Javasan; Mr. W. Carat; Mr. H. Crunor; Mr. W. W. Raves; Dr.
Mayria of Assis; W. E.; Mr. H. L. Bowe; Dr. Water; Mr. P.
Bertons; Mr. P. H. MacGillatray; Mr. W. Dreos Wood; Dr. T. P.
Jaccas; Mr. D. Hillatray; A Astricale Perit; Dr. Nomis; Dr. T.
Jaccas; Mr. D. Hillatray; A Astricale Perit; Dr. Nomis; Dr. J.
Lavinor; Mr. P. H. MacGillatray; Mr. W. Dreos Wood; Dr. T. P.
Lavinor; Mr. P. Hallatray; Mr. Raves; Mr. R. Water, Mr. Mariero,
P. Tillatray; Mr. C. T. Vacanti, H. M. Assory; Mr. S. Wattroom; Dr.
Lavinor; Mr. Ratakan; Dr. Janes Bressal; Mr. J. Charro;
Dr. Cenna Rivers; Dr. Jaccos-Sanonisco; Dr. W. Mostifska;
Dr. Cenna Rivers; Dr. J. Benco-Sanonisco; Dr. W. Mostifska;

BOOKS RECEIVED-

BOOKS RECKIVED—
Dr. G. F. Bindford on Insanity and its Treatment—A Tabular History and Analysis of all the Undewleted Cases of Typhoid and Typhan Fevry and Analysis of all the Undewleted Cases of Typhoid and Typhan Fevry——Insanit of Metal Science, January, 1671—1691 [And Jones of The Proposed Science of The Proposed Science of Tabulary, 1671—1691 [And Jones of The Hardler, from a Psychological Point of View, by W. Typon, World Foreign Medico-Chirurgical Review, January, 1871—1691 [Annuary, 1671—1691] [Annuary, 1671—1691 [Annuary, 1671—1691] [Annuary, 1671—1691 [Annuary, 1671—1691] [Annuary,

NEWSPAPERS RECEIVED-

Nature—Pharmaceutical Journal—The Melbourne Argus—Ashton-under-Lyne News—Edinburgh Evening Courant.

APPOINTMENTS FOR THE WEEK.

January 7. Saturday (this day).

Operations at 81. Bartholomer*a, 15 m.; 18t. Thomas*a, 85 a.m.; King*a, 2 p.m.; Charing-cross, 1 pm.; 18t. Thomas*a, 18tonical row Women, Boy 1.1 Invertication, 2 pm. Prof. Odling, "Burning and Unburning" (Jivenini Lectures).

9. Monday.

Operations at the Metropolitan Pres Montaly,

Operations at the Metropolitan Pres Montal, 2 p.m.; 8t. Mark's Hospital
for Diseases of the Rectum, 2 p.m.; 8t. Pater's Hospital for Stone,
3 p.m.; 10pral London Ophthadmai, 1 m. m. 2, Jonan, P. R.C.S.—Lettle,

Johnson, L. L. Landon, C. L. Landon, J. L. Landon, J. L. Landon, J. L. Landon, L. La

10. Twesday.

Operations at Guy's, 12 p.m.; Westminster, 2 p.m.; National Orthopsedic, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Great Portland-street, 7 p.m.; moyns green, s.m.; mayns secured polyhalmics, 11 s.m., 8 p.m. Meeting.
Beveat Monotal and Churcholas Boster, 8 p.m., Dr. C. T. Williams, "On the Daration of Phthisis, and on certain conditions which influence it." Mr. J. G. French, "On the Probable Cause of the Post-mortem Mascalar Contractions in Cholera."

Massair Contractions in Goorn.

J. Wednesday.

Operations at University College Hospital, 2 p.m.; 81. Mary's, 11 p.m.; unidadisex, 1 p.m.; London, 3 p.m.; 83. Bartholomese's, 15 p.m.; dreat Northern, 1 p.m.; 2 p.m.; 18 p.m.; 18 p.m.; 19 p.m.; 18 p.m.; 19 p.m.; 18 p.m.; 19 p.m.; 18 p.m.; 18

12. Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmie, 1 p.m.; Royal Orthopsedie, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmie, 11 a.m.

13. Friday.

operations at Westmanter and 13. Friends,
history, 2 m. Central London Ophhistory, 2 m. 1 Royal Lordon Lordon Ophhistory, 2 m. 1 Royal Lordon, 2 m. Carvica, 1 Server, 8 p.m. Annual General Meeting for the Election of
Officers, Mr. 7. Smith, "Case of Ulver following Vaccination,"
in Acete Rheumation," Mr. Teevan, "Four Cases of Operation for
nanually Lorgo Calcuil,"

VITAL STATISTICS OF LONDON. Week ending Saturday, December 31, 1870.

BIRTHS. Births of Boys, 1076; Girls, 965; Total, 2041 Average of 10 corresponding weeks, 1860-69, -69, 1951 0. DEATHS.

		dales.	Females.	Total,
Deaths during the week . Average of the ten years 1860-69 . Average corrected to increased population	:	894 780-7	966 773-7	1760 1554.4 1769
Deaths of people above 90	11	***	***	***
DEATHS IN SUB-DISTRICTS	FR	MOI	EPIDEM	ICS.

West ... North Central 3 *** 'n 353321 571158 773175 2 East . South . 14 42 16 Total 2903999 110 29 110 8 1 49 10 21 13 6

ME	TE	OR	OLO	OGY.				
From Observations	at	the	Gree	enscie	10	beers	alo	ry.
ean height of barometer								29 802 in.
ean temperature	٠							25.7"
ghest point of thermometer								33'7°
west point of thermometer								9.8"
ean dew-point temperature								22.1
meral direction of wind .								N.E.
hole amount of rain in the v	ree	k .						0.42 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, December 31, 1870, in the following large Towns:-

	ion in 1870.	Acre.	Dec. 24.	Dec. 24.	Tem of A	pera ir (F:	ture thr.)	Temp. of Air (Cent.)	Ra	
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A (1870.)	Births Registered the week ending I	Deaths Repostered the weekending D	Bighest during the Week.	Lowest during the Week.	Weekly Mean of MeanDallyValues.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London S	214707	41.2	2041	1700	33.7	9.8	25.7	- 8'50	0.42	1.07
Portsmouth	122094	128	7.6	43	3612		26.8		000	0.00
Norwich	81087	10.9	46	64	35.0	5.8	25.1	- 8.83	0.33	0.81
Bristol	171382	30.6	137	129						
Wolverhampton	72990	21:5	53	39	33.4	7.2	21.9	-5.61		0.40
Birmingham	369604	47:2	251	222	34.5	11'0	24-2	-4:33	0.11	0.58
Leicester	97427	30:4	60	85	32.4	7.0	23.3	-483	0.00	0.12
Nottingham	RIGHTS	44'5	47	59	35.4	8.7	25.0	-3.89	0.11	
Liverpool	517567	101:3	306	489	32.0	17.0	26:4	- 3'11	0.00	0.00
	374993	83.6	265	249						
	121580	23.2	96	68		11.8	24.7	-4:06		0.00
Bradford	143197	21.7	100	76	31.5		27.2	-2.50	0.60	
Leeds	259527	13.0	858		35.0		29.2	-1.98		0.48
Sheffield	247378	10.8	197		34'7	17'0	27.4	-2.26	0.10	0.22
	130969	36:7	90	60			-	***		
	100979	3015	149	50			-	***		
Newcastle-on-Tyne	133367	25.0	162	60	10.0	12-0	30.5	-1.00	0.28	0.88
	178970	4014	+140	+163			-	***		***
	469199		+335				7-	479		
	821540	83.0	9154	+167				***		***
Total of 20 Towns - in United Kingd'm 7	216325	83.8	5061	4280					ì	
Paris-Week ending			1	1				-		
Dec. 31	889842	98			l			***		
Vienna-Week end-		-								
ing Dec. 24 Berlin-Week end-	622007	68		342			25-6	-3.00		***
ing Dec. 29	800000	53								***

At the Boyal Observatory, Greenwich, the mean height of the barometer the week was 29 502 in. The highest barometrical reading was 30 13 in.

At the Boryal Observatory, Greenwish, the mean height of the be are mided in the week was 1990 in. The height of the 1990 in the theory of the theory of the property of the theory of the 1990 in 199 houses.

* Inclusive of some suburbs. Incusive of some squares.
 No returns having been received from Edinburgh, Glasgow, or Dublin,
 averages of the births and deaths in recent weeks have been substituted for the correct numbers, in order to make up totals for the 20 towns of the U.K.



ACCIDENT CASE. DR. ANGOVE'S

"The advantages are that it will contain instruments enough for almost any accident, together with lint, plaster, handages, tourniquet, &c.; and by keeping this stocked and hung up in a handy plate, you are ready to be off at any moment. It is easily carried on horse-back. By aking the matrix-back plants of the state of the stat

MANUPACTURED SOLELY BY

ARNOLD 8 SONS.

Instrument Makers, by Appointment, to Her Majesty, St. Bartholomew's Hospital, Seamen's Hospital, &c., &c., 35 & 36, WEST SMITHFIELD, LONDON.

SESSION 1870-71.-NOTICE OF REMOVAL.

COLLINS. Microscope CHAS. Manufacturer. 157, GREAT PORTLAND-STREET, LONDON, W .- MANUFACTORY: GREAT TITCHFIELD-STREET.

SOLE MAKER of the "HARLEY" BINOCULAR MICROSCOPE. ILLUSTRATED CATALOGUE (FREE ON APPLICATION) OF EVERY REQUISITE.

PRIZE MEDAL. 1862.

JOSEPH F. PRATT.

PRIZE MEDAL, 1865.

SURGICAL INSTRUMENT MAKER, &c., 420, OXFORD-STREET, W.

ELASTIC STOCKINGS, LADIES' ABDOMINAL BELTS, IMPROVED WATER-PAD TRUSSES FOR SCROTAL AND UMBILICAL HERNIA.

HOOPER'S ATTRESSES, WATER

WATER CUSHIONS.

FOR AN ORDINARY BEDSTEAD OR COUCH.



Circular Cushion, for sitting on. Crescent Cushion, for the Sacrum. PALL-MALL EAST, and at 55, GROSVENOR-ST., LONDON.

LECTURES. ORIGINAL

LECTURES ON

THE CLINICAL OBSERVATION OF DISEASES OF THE BRAIN AND NERVOUS SVSTRM

By THOMAS LAYCOCK, M.D., etc., Professor of the Practice of Medicine, of Clinical Medicine, and of Medical Psychology and Mental Diseases, in the University of Edinburgh.

(These lectures have been revised, and somewhat extended, by Dr. Laycock.)

LECTURE I. In pursuance of my plan, to dwell more in detail on those divisions of the practice of Medicine which have seant or no attention in the systematic treatises I have recommended you to read, I shall devote a few hours to those diseases of nutrition which depend directly or indirectly on disorders or diseases of the brain and nervous system. These, although recognised in practice, have not as yet a distinct chapter allotted to them. Before, however, we can do this satisfactorily, we must study how to observe them; and this requires us to take up another omitted chapter. So much more attention has been given to diseases to which the methods of physical diagnosis are available than to those of the brain and nervous system, which touch on the metaphysical, that the latter are omitted almost wholly on the metaphysess, in that he is there are omitted aimost wholly from manuals of diagnosis. I will endeavour, therefore, to recearch are not wholly wanting, but, owing to defective anatomy and the impractical character of mental philosophy, ob-servations are chaotic and conclusions contradictory. The chief remody for this state of things is, more accurate observation of remedy for this state of things is, more accurate conservation or the results of morbid function or symptoms, under the guidance of general laws. And this method is also available to a better knowledge of the anatomy and physiology of the nervous system, when aided by experimental research. The cerebra-spinal centres are not only wholly inaccessible to physical negator foresarch, because enclosed in a bony case, but all their relations to thought and feeling can only be determined accurately in the living man under conditions which are frequent sources of fallacy.

In calling your attention to the best method of clinical observation, I shall not enter into such details as belong to the conservation, I shall not enter inco seen declars as legang to the observation of particular discoses further than is needed to increasing the control of th ness; two, motion and nutrition, with or without consciousness. Those which involve consciousness may be classed as they are mental and sensorial. By mental diseases I do not mean insanity mental and sensorial. Dy mental usesses I do not mean insanty only, but morbid changes in the feelings, thoughts, memory, judgment, and will, of all kinds, such as are included in Cullen's nosology under Vesanise. It has been truly a retrograde step to substitute insania for the vesanise, not only because there is no strict line of demarcation between mental disorders, there is no strict line of demarcation between mental disorders, but because insanity is best understood by the study of cerebral pathology in general. The sensorial class includes morbid states of sensation and perception, from merely bodily feelings to hallucinations and illusions of the senses. The term seathesis, with prefixes, is in common use to indicate some of these; thus we have hyperesthesia and anæsthesia. I think we might drop the prefixes, and use the radical word to indicate all kinds of sensorial disorders. The other two groups, in which motion of organs and nutrition of tissues are involved in nervous disorders, may be separately named in like manner, although they also are intimately connected with each other and with states of conscionsness. Kinesis has been used as a and with states of consciousness. Alnesse has been used as a generic term, like setblesis, to indicate morbid affections of movement; and writers speak of hyperkinesis and akinesis. We can drop the prefixes, and use the term kineses for all impulses, spassus, palsies, and irregular movements like chorea.

It is not so easy to find a general term for the neurotic disorders of nutrition, for various reasons which I need not mention now. In hypertrophy and atrophy we have, however, a radical word in common use like sethesis and kinesis; and I have therefore named this class of nervous affections trophesise or, anglice, trophesics which is as easy a word to say as Vot. I. 1871. No. 1072

symphathies, or the like, and expresses what otherwise would require a sentence. If the word neurosis had not already a use restricted to functional disorders of a particular kind, we might use it as a generic term, and distinguish the four great classes as mental, sensorial, motor, and trophical neuroses.

Whatever classification is adopted, it is necessary to remember that to consider any diseased condition as an entity, because it has got a name, is a fundamental error in observation. The entity is the patient; the name signifies no more than that a predominant symptom, or group of symptoms, has been observed in a given case; the other symptoms are best investigated and classified in reference to those which give the

nosological or pathognomonic diagnosis.

Having classed the case, the next step in observation is to determine generally the anatomical seat of morbid change. As to those in which consciousness is involved, we can say with all reasonable certainty that it is somewhere in the great sensorial division of the nervous system, the centres of which are contained within the granium. In man, and probably in at least other mammals, the occipital foramen bounds all of the cerebro-spinal centres that may be included in the term sensorium commune; and, consequently, the cranium contains the seats of all vital changes neces-sary to consciousness. But the asthesia and vesania differ in this that in the latter there must be some kind of disease or disorder in the cerebral hemispheres-meaning therehy all that part of the encephalon which can be separated anato all that part of the encephation which can be separated anatomically from the cerebellum, medulla oblongata, and pone ratio.
Such diseases are loss of memory, speech-palsies, delirium, and the various forms of mental disorders, whether they be called insanity or not. In the asthesiae, on the other hand, the seat may be, and often is, without the cranium, in the cord or in nerves, but not unfrequently in the medulla oblongata and its nerves, but not unirequently in the medium colonique and its continuations, as crura cerebri, and thalami. In the kineses, in like manner, the seat may be, and often is, extra-cranial; but very commonly, too, in the cerebellum, pons, corpora quadrigemina, and corpora striata.

So far books will help you; but not so as to that portion of the nervous system which is specially involved in those neurotic disorders of tissues which I name trophesies. Is there a trophical division of the nervous system, as there is a motor, a trophical dirision of the nerrous system, as there is a motor, a seniery, a mental? or can we, for practical purposes, adopt the theory? It may be said that the vaso-motor system is such a system; but the objection to this dectrine is, that the name is misleading in so far as it only means a system which dury distributes the blood for nuW on hall see that this is only lating the action of the control of the control of the control is the control of the control of the control of the control of the trophical system; there is the action of the trumbatical and phospherists to results as well as of the a part of the duty of a trophical system; then the described in bloodressels, besides all those changes in the tissues themselves which may be termed chemical. This confused and restricted use of the term vaso-motor has, in fact, led to so much erroneous observation and induction, both in Medical theory and practice, that it is one great object of my special discussion of these neurotic diseases of nutrition to instruct

you how to avoid these mischievous errors. Having determined, as far as may be, the seat, the next step is to ascertain how the various systems are related to each other-for we have seen that no case can be examined in reference to one only. If we inquire into what is common to all, practically, we find that there is always a change of func-tion of some kind, and to this extent, that the regulative properties of the nervous system are altered. Now these properties depend upon a vital energy peculiar to the nerve-tissues, ties depend upon a vital energy peculiar to the nerve-ments, which has been termed via nervous, but we must all via upon the control of the c

there is a change of some kind as to the vis nervosa, but we can name at least three modes or kinds of change in nervous disorders :-- (a) Vis nervosa is evolved in excess, as in furious mania; (b), is evolved in defect, as in nervous debility, palsy; and (c), whether it be evolved in excess or in defect, is distributed

and (c), whether it be evolved in excess or in detect, addistributed irregularly, as in insanity, chores, a taxy, betomic, hanges are.

Take now another step, and inquirier the guidance of text-books, you will too often meet with useless metaphysics. You will read of "palsy of the will." that "pain excites" this and the other, that "the mind plays "upon the herves like a performer on the keys of a plano; and therewith you will be led into fallacies in observation and practice. Now, the changes which, in the nerve tissue, coincide with the evolution of energy

or force, always result from the communication of force or energy to the tissue, and never from mere states of consciousness or by acts of will. Thus, the natural sensation of heat, or of being hot, is due to the communication of heat, as energy, to appropriate nerve tissue in or on the body. If, as often there is at the action of the thermal centres as if heat had been communicated to the part to which the sensation is referred. As the response thus made to the consciousness is illusive, the sensation is called illusive. It has been also termed imaginary, for the same reason. Now, as a matter of fact, the constraints of the control of the constraints of the vital change as certainly as that which is not imaginary.

All these metaphysical terms have been adopted, and, indeed, are used, with no regard to vital changes, and, consequently, are continually misleading. Philosophers refer everything to "mind" which Physicians should refer to be "mina". This is why they conclude that "bodily" or "corporeal" pain merits no place in metaphysics; yet it is a state of consciousness just as inscrutable as the predoundest speculations about the Infinite. Bodily pain is elicit when the sast of pain is referred to some in the mind, when the man the principal pain is felt, and said to be in the mind, when the man to principal pain is felt, and said to be in the mind, when the man to principal pain is felt, and said to be in the mind, when the man to principal processes go on everywhere in our bodies as independently of consciousness as they are thought to go on in plants. Hence the trophical system has been termed the system of vegetative or of organic lift; as distinguished from conscious life. Disorders of the trophical system may and do arise, and continue independently of the proprincipal system may and do arise, and continue independently of multiple system may and do arise, and continue independently of the proprincipal system may and do arise, and continue independently of the proprincipal system may and an arise, and continue independently of the proprincipal system is a man ansesthesia. This latter state as to the sensory system—i.e., an ansesthesia. This latter state as to the skinis very common in insantly and in skin discesses in which it is not even suspected, as in psoriasis, in syphilis, and in the carly stages of leproay.

Obviously, the next step in the inquiry is to ascertain the kind of change the nervous system has undergone in any disease, or what is termed the proximate cause of the morbid state. This may be done, and treatment conducted satisfactorily, although we cannot fix upon the exact anatomical seat of disorder. Having regard to the kind of the tissue change, there are two great classes—namely, the functional and the structural—and each of these may concern different tissues. The first and most important change, practically, is that which which, if it be excessive, will lead to disorder of function. Excessive nae is, however, only a relative term. Undue stimulation of a sensory merve or nor-centre, if continuous, may lead to structural changes; otherwise, repose of the tissue is followed by restoration to healthy activity. Examples of the former are the aphasis, hemiplegia, and palsies which follow, under certain constitutional conditions, upon excessive brain-work and depressing emotions. An example of the latter is the daily use, which tends naturally to a daily exhaust the energy person of the control of the control

Now, one part of the nervous system may be more used than another, and thus that part will be more predisposed to take another, and thus that part will be more predisposed to take arother, and the mean them. Hence, along, acting as an exciting caused on the model. Hence, along, acting as an exciting caused the state of the state

It is necessary, in considering continuous and excessive use or activity as a cause of nervous disease, to get rid of vague ideas. When excessive use of a limb leads to palsy or weakness, the muscles of the limb are involved in the exhaustion as well as the nervous system, and the nerve fibrils in the muscles

as well as the nerve cells and fibrils in the nerve-centres. Further, there cannot be excessive use of a nerve or nerve-centre without an increased activity of the circulation therein, and increased use, therefore, of the bloodvessles and the capillaries. This is a very common exciting cause of disorder of function and degeneration of structure of the vascular system, and other poisons, which, received into the blood, act upon the lymphatics or the vascular system. Opium and alcohol cause at first only functional disorder, but their continuous and excessive use ends in nutritional changes in the nerve tissues, which are apt to become hereditary. The terms neurosis and nervous disorder have been given to this class of functional disorders. Their characteristic is that they have no psubological and our, for none of them, strictly speak are no psubological and our, for none of them, strictly speak are no psubological and our, for none of them, strictly speak and the substitute of the drug on the nerve-centre has pasied; which has each of the drug on the nerve-centre has a paiced.

and not of the palsy itself.

Another kind of morbid state is that which results from deficient untrition of the nerve-centres. This is usually named, in a very vague way, nervous debility. I shall consider what this is specially; all I need say here is, that its causes are much more complex than is usually stated, and that it influences all parts of the nervous system. Any exhausting disease will induce it, and special centres may be affected when special causes act upon those centres may be affected when special causes act upon those centres. "Bodily" weakness is often due to a complex causation, enfecting the trophical system. An illustration is afforded by certain atrophics of the musculer system without palsy. There is a man in Ward 3 of the system without palsy. There is a man in Ward 3 of the Infirmary who has gradually wasted until he is "skin and bone," except his lower extremities, which are anasarcous. He has no chronic diarrhos and no pulmonary disease, so that the wasting is not phthisical; nor has he albuminuria or gly-cosuria, so that it is neither that of Bright's disease nor of cosuria, so that it is neither that of Bright's cusease nor or diabetes. He has a quickened pulse of 90, but no hectic, so it is not the wasting of fever. Why, then, do his legs swell, and the muscles and fat of his trunk and limbs waste away? If you tap over any portion of a muscle, you throw it into fibrillary contractions, exactly as is sometimes to be seen is into normary contractions, exactly as isometimes to be seen in cases of a muscular atrophy termed wasting palsy. Is the wasting due to debility of the trophical nervous system? Hear what M. Tronsseau says of wasting palsy itself: "As to a lesion of the nervous centres, the integrity of the intellectual functions, the absence of all symptoms during life of paralysis proper, and after death the absence of anatomical changes in the spinal cord and brain, prove, conclusively, that the great centres of innervation are not in the least involved in this comcentres of innervation are not in the least involved in this com-plaint. And yet I have told you that M. Sappey thought be had found in my patient a diminution in aix—i.x, wasting or viously to this paragraph, we find M. Toussean refers to a case carefully observed by the late Dr. Aran in 1840, and quoted by Cruvellihre and Dnchenne, as proving the fact mentioned by M. Sappey. When I come to speak of this wasting palsy, I shall allow to you that it follows the law of production of dropsies, and that it is due to an imperfect functional activity of the anterior or motor trophical system, which is the proxi mate cause of the wasting. In the case just alluded to there are two distinct tissues involved: the muscular system in general, from which the absorbents have taken np fat and general, from when the absorbers have taken up hat and tissue; and the lymphatic system of the legs, from which the absorbents have failed to take up the serum present in the connective tissue. The man has, in fact, enlarged lymphatic glands in each groin; and from this and other symptoms there is reason to suspect malignant glaudular disease within the abdomen. It is this condition which is the cause of the general atrophy, by action on the trophic muscular system in general; and of the paraplegic anasarca, by influencing through the same system the absorbents of the lower extremities. If the patient live long enough, the anasarea will probably extend to the hypochondria, the boundaries of the abdominal lymphatic system. In what, then, consist the fallacies of M. Troussean's conclusions? He thinks-firstly, that there is an entity, such as he terms "paralysis proper;" secondly, that all palsies of this kind must be associated with some change in the intellectual function, or, anatomically, in the hemispheres; and thirdly, that change of structure cognisable after death is necessary to palsy of function. We shall shortly see, breaking away from those fallacies and others of a like kind, what M. Trousseau never suspected, that the articular and muscular diseases known as rheumatic and gonty, as well as muscular atrophy and wasting palsy, are influenced by the nervous system.

I have mentioned fibrillary contractions in the muscles as a

sign of muscular trophesy; that there is a difference between mere wasting and this kind is shown by clinical observation. In a case of phthisis, for example, the fibrils of the thoracic muscles will tremble if tapped, when those of the limb muscles will not. So it is not mere wasting which induces that more definite fibrillary contraction in which shaking palsy consists. This is true also of the tremors of drunkards, and the subsultus with tremors of typhus. There is in all these a conjoint defeet of nerve, nerve-centre, and muscle. The natural type of these is in the shaking of the hands which unusual exercise of them induces.

The structural diseases are most conveniently classed according to functional causes acting on the elementary tissues in-

volved.

 Degeneration and atrophy of the proper nerve tisance— the cells, grannles, and fibrils. These, perhaps, are always the sequel to functional disorders, either directly or indirectly. the connective tissue, which unites these elementary tissues with the others—the neuroglia, or "uerve-glie," as Virchow terms it, and which extends throughout the cerebro-spinal centres. 3. The essentials to nutrition, the vascular and lymphatic systems of the brain and cord, including the capillaries.

Of the degenerations of the cerebral vascular system we know or the degenerations of the octroral vascular system we know much, but of even the anatomy of the lymphatic system we know little. It seems probable, from the researches of M. Robin, and more lately of His, that the lymphatic system is to be found in what the latter terms perivascular spaces, which surround, the capillaries in all their subdivisions and anastomoses. Lymph-vessels have been found in the pia mater, and these can be injected, according to His, from the perivascular spaces; the union is effected by a wide lacunar system separating the brain from the pia mater. I have long shown that, clinically, the pia mater must be classed with the blood-glands—considered, in short, a blood-gland spread out. Now, there are certain fevers in which the blood-glands are specially involved; and in these, when the pia mater is affected, you have important head-symptoms. The dura mater, as a protecting envelope, is not to be considered cerebral tissue.

These different elementary tissues (with which the neurilemma of the nerves must be included) are the seat of constitutional or diathetic degenerations. The pia mater is the seat of tuberculosis; the dura mater, of rheumatic and osseous degenerations; the connective tissue, of syphilitio and amyloid change; the yessels of calcification and ancurismal dilatation and of fatty, waxy amyloid and fibroid degeneration, all which

are diathetic.

Anatomical changes in the cranium and dura mater do not belong to those of nervous diseases proper, any more than changes elsewhere externally to the cerebro-spinal centres. But from their close relation of contignity, and perbaps of trophical function, such changes are very important in observation. Injuries to the cranium, sun-stroke, inflammations, and even ulcers and eruptions of the scalp, have sometimes a

serious significance in diagnosis and prognosis.

Seeing how common diathetic degenerations are, their diagnosis is very important, because very available in practice, when we cannot diagnose the exact anatomical seat. value of diathetic diagnosis cannot, indeed, be over-stated. You will meet with syphilitic cases which resist all treatment by the usual routine-tonics—which often, indeed, go on rather from bad to worse—but which yield readily to suitable treat-ment as syphilitic disorders. These, with gouty and atheroatous di seases, are, perhaps, the most easily disgnosed. Hamourhagie apoplexy, softening, palsy, and a sad, intractable kind of insanity known as general paresis, are due to vascular lesions, mostly calcific and atheromatous. Scrofulous tendencies are most important in children, and gonty and atheromatons in adults. Gonty women and men of the nervous diathesis are especially liable to neuroses of the neurilenma and the bloodvessels. The diagnosis of these diathetic tendencies will be taught to you specially. All these tendencies are hereditary.

The discrimination of hereditary and constitutional tendencies to nervous disorders proper of all kinds—for insanity is not the chief—is of primary importance to good prognosis and prevention. It is too large a subject for present discusston; I will only call your attention to some practical points.

Heroditary nervous diseases are all, I think, to be classed as dynamical disorders of nutrition, and arise from causes which continuously influence nerve-nutrition in parents. continuously influence nerve-nutrition in parents. Excessive mental work and drunkenness are illustrations. It is not always the same kind of affection of the nervous system which is manifested hereditarily; thus, insanity in the father may be cerebral hysteria in the daughter. Again, the

same mental qualities are not transmitted, because the operation of the cause or causes is as continuous from generation to generation as it is in an individual. Hence, a large allowance must be made for the element of time. Thus, the son of a set may be a maniacal drunkard, but his sou may abhor drink generally, and have dipsomania only paroxysmally, while his grandson may have melancholia or mania ending in dementia. Excessive use of particular portions of the brain by the parents may not manifest its results in them, but in their offspring, may not manifest its results in them, but in their dispring, and these may be such as follow upon atrophy or other diseases of imperfect nutrition. In this way it happens, not unfrequently, paradoxical as it may appear, that children are wholly unlike their parents in their moral and intellectual qualities. Very religious and moral persons have thus scapegrace sons, from absence of moral sentiment; and extremely proud persons will have sons and daughters of low habits and endencies. It is from this kind of palsy that we sometimes find such an entire change of character occurring in an individual, from moral shock or other paralysing conditions.

I will now illustrate these view by brief cases. We had a strong Highland sbepherd lately in Ward 3 of the Infirmary, who had wholly lost the use of his legs. He could neither walk nor stand, but he could feel. There was no trophesy of wais nor saind, out no count rect. Ancre was no trophety of the legs, except such wasting as generally follows upon disease of muscles. After a long and tolloome walk, on a stormy winter's day, across a bleak Highland moor, he felt pains in his back, then "rhounatism" and weakness of the legs, ending finally in palsy. The so-called rhounatism was a nuscular finally in palsy. The so-called rheumatism was a muscular neuralgia. In this case there was probably not only tissue degeneration of the anterior or motor columns in the dorsal region of the cord, but also of the motor fibrils in the muscles, due to the exhaustion of excessive use. Doubtless there was also a condition of the cord predisposing thereto, but of this area a consistent of the corru pressipasing uncertor, but of this history taught as nothings. Another estimates, the history taught as nothings. Another estimates in the situation of the cold wintry days and night ship ship was at the disposal of the storny Atlantic. He was all that time on deck, amidst wind, rain, and skeet. His early symptoms did not impress him much, because he appeared to recover, but a fresh exposure caused a relapse, and he gradually became what he was when admitted into the Infirmary. He walked and spoke like a drunken man, nno ne initraary. He walked and spoke like a drunken man, in that peculiar way which hints at general paresis. When speaking, his lips and cheeks quivered with fibrillary contractions. He was pale, downcast, and meditated suicide. In this case, long atrain had been on the whole system, motor and sensory—want of sleep, fatigue, fear, and anxiety, and a low temperature (of the influence of this on the neive-centres I temperature (of the influence of this on the netw-centres I shall speak specially)—all this continuously operating for three days and nights broke down the vascular elements of his nervous system irremediably. In these cases there was no tendency to aloughing and gangreue, as you see in some cases of acute paraplegia, due to inflammation and inflammatory softening of the cord; but then there was no neuralgia, hyperæsthesia, or anæsthesia-no æsthesia, in short, such as

hyperresiltosia, or amesthesia—no sesbesia, in short, such as coincides with this kind of trophesics.

Two kinds of palsy, in which the nutrition of the muscular system is involved distablically with very opposite results, will instruct by contrast. Wasting palsy is a progressive atrophy of the nuscular tissue proper, with or without absorption of fat. It attacks particular nuseles and groups of nuscles—i.e., particular new fibrils and centres are involved, according to a law which I shall explain on a future occasion. The result is, that one part of a limb may be atrophied to skin and bone, and another portion remain plump and round. It is an hereditary and constitutional disease. But last seasion we had a quite different condition in a sailor, in Ward 3, about 30 years of age, who hobbled feebly along, with short steps, lifting his legs with a peculiar twist of the hips. In him the lower extremities are hard and torose, as in a Hercules. This man had what Dr. Duchenne has described and named "pseudo-hypertrophic muscular palsy" and "myosclerosic palsy," because there is a large increase in the connective and interstitial fibroid tissue, causing hardness without diminution of fat, and not strongly marked degeneration of the muscles proper. It has been seen most commonly in children, and, like wasting palsy, it may—indeed, commonly does—affect the muscular system generally. Now, in the majority of essee of children, there has been coincident immajority of cases of children, there has been conscient uni-becility or idiony, while nothing of this kind is seen in washing palsy. The causes of this difference, so puzzling to those who have written on the disease, is intelligible to theory that they both are disthetic disease, of intelligible of a wholly different character. In the simple strophy, the

trophic muscular nerves act upon muscles with no tendency to plastic or fibroid degeneration of connective tissue; in the hypertrophy, this is a coincidence. Now, this kind of merbid nutrition is seen in various constitutional diseases, but strik-ingly in the two forms of elephantiasis—the Barbadoes leg and the leprons leg-and also in some cases of hereditary syphilis. What is common to all these is that the lymphatics, as well as the museular tissues, are involved in the change, as in anasarca. In the imbecile children with general hyper-trophic palsy, there is probably a coincident lesion of the connective tissue and lymphatic system of the cerebro-spinal centres, giving rise to cerebral selerosis. The connexion of fibrinous "exudation" with trophic neurosis is well shown in that kind of leprosy termed tubercular; in the anaesthetic kind there is no exudation, only those ulcerations, sloughings, and inflammations which are apt to follow on lesion of the sensory nerves and ganglia.

It is easy to understand why these diathetic palsies are insidiously progressive, when we remember that this is the law of all disthetic diseases of nutrition, when once they have passed into the chronic and structural stage. Hence, too, the incurability of the diseases of the constitutional or diathetic incurately of the diseases of the constitutional or canacter class, such as progressive locomotor attack, general paresis of the insane, and atrophic palsy. But there are palsies which, being functional in their origin, are not progressive nor incurable—sometimes easily curable; such are two kinds of functional paraplegia, termed reflex and volitional. The sympathetic influence of the abdominal and pelvic viscera on the dorso lumbar portion of the cord, so as to induce palsy of the legs, has been long recognised; of these the kidneys, or rather the genito-urinary organs, have the most marked influence. Dr. Brown-Sequard has shown that the influence of the kidney may be unilateral; for, tying the hilum of one of the sidneys, the same symptoms resulted as follow on section of the lateral half of the cord. I do not stop to discuss Dr. Brown-Sequant's theory; I only desire you to note that this reflex palsy is wholly different from that kind of paraplegia involving the will. Of this there are two kinds—the one structural, termed progressive locomotor staxy; the other, a functional nearosis, usually seen in hysterical women.

The cases have this peculiarity—that, although the patient is powerless to will movements of the legs, she is powerful enough to use them under emotional excitement. These cases belong to the same class as certain kinds of speech-palsy, or octong to the same classe as certain kinds of specch-parsy, or aphania, and the sensory portions of the nervous system are involved; all that side which is in relation to consciousness. Emotion will wholly paralyse the organs of speech, causing aphasia - as it will the legs, causing paraplegia -- or, vice versu,

remove palsy.

All these cases come under the head, as to cansation, of bodily and mental sympathies. Causes of this class are very complex, because of the multitudinous relations of the nervecentres to each other and to the nerves. It is not easy to believe, unless you know the order of causation, that a discased elbow can be the cause of profound melancholia; yet the re-moval of the one has been so immediately followed by the cessation of the other, that, taken with many like facts of experience, the concert that, teach with many has been or perience, the conclusion is justifiable. Certain general rules may be laid down for investigating these complex sympathics, deduced either from the generalisations of experience or the laws of nervo action, which, if followed, will greatly simplify observation.

Let us first classify these sympathics in relation with our subject. There are the two well-known sympathies between what are termed body and mind. Everyone is aware how inseparably emotional states coincide with changes in the heart, lungs, and abdominal viscera, and in the circulation in the skin, as indicated by pallor and blushing. Now, these changes are usually said to be caused by the mind acting through certain portions of the nervous system in direct connexion with anatomical seats of change. Formerly there were two such recognised systems—one, the sympatheticus minor, now called the vagus or pneumogastric system; and the other, the major, now the sympathetic system proper—and more recently the ganglionic and the vaso-motor system. Another kind of sympathy formerly recognised is that now known as diastaltic or reflex-c.g., the convulsions of dentition have long been rightly attributed to a sympathy between the teeth and the nervons system. A third kind of sympathy is such as that observed to exist between the pregnant uterus and the mamme. The connecting-link between these organs was not admitted to be the nervous system until very lately. When I wrote my treatise on the Nervous Diseases of Women, and showed the diastaltic action of the uterus and ovaria in inducing cerebral

hysteria, the explanation was not only wholly unknown, but, when offered, was unintelligible to many, because of presen-ecived notions. A fourth kind of sympathy is of the kind observed between a diseased and a healthy eye, as manifested in sympathetic ophthalmia.

In inquiring into these sympathies, it will be useful to re-member that the fundamental fact in them all is that there are changes in either the evolution or the distribution of the vis nervosa, and that, consequently, the causes of these sympathics are the causes of those changes. Now, the vis nervosa is itself a molecular energy, like heat and light, although vital, and can only be evolved under conditions such as disturb the conflibrium of the nerve-molecules, or otherwise affect their qualities as the seat of it. Force or energy is needed to cause this disturbance. When applied directly and effectively to a peripheral termination of a nerve in the form of heat, light, chemical affinity, or gravity, a change takes place in the nerve, known as an external impression. This results in the evolution of vis nervosa, which again acts upon the centre, to which the nerve affected transmits it, and then an internal impression results, of which we may or may not be conscious. pain illustrates this order of events. An injury to a nervefibril acting as an external impression excites the changes in the nerve-centre which coincide with the feeling of pain; these, acting as an internal impression, excite two other series of changes—the one directed to the motor system, and exciting muscular action or vaso-motor and trophic changes; the other muscular action or vaso-inotor and trophic changes; the other to encephalic centres, and exciting therein the series of changes the control of the control of the control of the control of the this kind, it is of importance to remember that it is the changes in the line of physiological activity which is the primary con-sideration, and not the states of consciousness, except us of ar-as they show the direction and seat of those changes. It is quite certain that the pain in the order of events just described, which usually coincides with the other series of events, may not be felt, and yet the latter still go on, showing that it is not the feeling of pain which induces them. Nor can this be so, inasmuch as it is but a result of a part of the series of changes. Hence, if the sensory centre be anesthetic from exhaustion, pain is not felt, while exhaustion shows itself elsewhere. An example of this kind is afforded in the excessive and exhausting pressure on the sensory nerves and nerve-centres by the shock of a terrible injury: no pain is felt, but the temperature of the body falls very low, and the action of the heart and of the vessels generally is enfeebled, sometimes to cossition.

I shall direct your attention in the next lecture to some anatomical points, bearing more especially on the observation of structural diseases of the cerebro-spinal centres resulting from peripheral and central causes.

ORIGINAL COMMUNICATIONS.

CLINICAL NOTES OF THE VARIETIES. OF IMPERFECT SPEECH PRODUCED BY BRAIN DISEASE

By ROBERT DRUITT, M.R.C.P. Lond., etc.

Case 1 .- Aphasia preceding Puerperal Convulsions. THERE are few morbid phenomena more interesting than the THERE are few mortou pnenomena more interesting tians the varieties of imporfect speech produced by brain disease, ranging from complete aphana (so-called) downwards to mere hesitation in finding a name. I venture to put before my Professional brethren a few notes illustrative of the various conditions and complications under which the function of speech may be imcomplications under which the therefore is agreed may be made a paired—and, having no theories, I put them forth as mere contributions to the natural history of disease. The first case is one of right hemilpelga with a phasis twenty-fours hours before parturition, followed by perspectal convulsions, and death in ten days. The second, a case of aphasia with slowly death in ten days. The second, a case of aphasia with slowly advancing hemiplegia, and death from softening of the brain. advancing hempiegra, and death from softening or the orani. The third, sudden aphasia with right anesthesia, followed by recovery. To these I add notes of a case of disturbed speech with left hempilegia; a case in an old man absolutely deef from previous attacks of brain disease; and a case of perverning attacks of brain disease; sion of words in a woman in a state of incipient mania,

Case 1.—Headache-Right Hemiplegia-Aphasia-Convulsions-Parturition-Death after Ten Days of Imperfect Consciousness. I give this case first, although the last in order of time, because the notes and facts are fresh, and the case one that excited the most vivid interest in all who watched it.

V., a lady, aged 30, had been somewhat delicate, and was said to have shown at times signs of fatigue and irritability of brain in childhood: but I knew her for the last ten years to be of a remarkably cheerful and even temper. She became pregnant for the sixth time in March, 1870, having had a mis-carriage about a year before, and in May was again threatened with miscarriage, which was averted by the care of Dr. Farre, who saw her during my absence on the Continent. From that time till her last illness began, she drove ont occasionally, but for the most part spent her time in the recumbent posture, as she did not feel it safe to take any exertion. She took aperients for the relief of the bowels, and occasional small doses of sedatives to check any tendency to uterine pain; and under this régime went on satisfactorily until December 8, which was about one fortnight short of the full time. On that day she is said to have complained of a slight headache, and on Decomber 9 to have undergone a little fatigue and excitement, but nothing that would affect a healthy person-merely the return of her mother and children to town. In the evening she is said also to have complained of some heaviness and numbness of her right hand.

Dec. 10, 4 a.m.—I was hastily sent for, and learned that she had had a restless night and no sleen: that at 3.30 she had felt a sudden shock go up from her hand to her head, sine and tett a sudden shoes go up from her hand to her head, since which the right arm was entirely paralysed. Her pulse full, excited; head hot and aching; pain referred to left fore-head; eyes antural; face flushed. Said she had paralysis of right arm, which lay helpless across her chest, with a sensation of pins and needles, and different feeling from the other arm when touched; it has been considerably agritated or jerked, but is now motionless and limp. The right leg slightly numb and weak; she seems excited and talkative; but misses her and weak; she seems excited and tauxative; our misses are words, and cannot finish a sentence. Ordered a purgative of podophyllin and colocynth, to be followed by a seidlitz powder and also fifteen grains of bronide of potassium immediately.

10.30.—In statu quo; no sleep nor action of bowels. Repeat the soidlitz powder, and get ready strong infusion of senna for

1.30 p.m .- Some twitching of face; much headache; ice bladder to head; enems of senns.

N.B. Examined urine passed this morning; quite acid, of

N.B. Examined urme passed this morning; quite acid, of full colour, and yielding no precipitate when boiled. 3.30.—Consultation with Dr. A. Farre. Bowels have been copiously moved with thin, dark, fetid, lumpy stuff; head feels better; but during our visit a short convulsion came on, which left her restless and talkative, with great difficulty of expressing herself. Sinapisms to calves of legs; enema assafutide; tinct. valerian ammon, half a teaspoonful when restless.

6.30.—Tranquil and collected; a little sick; seltzer water;

repeat colorynth and podophyllin.
N.B. Urine again examined and found as before. Discussed

with Dr. Parre the probability of convulsions during labour, and agreed to await the on-coming of labour, to accelerate it

and agreed to await the on-coming or moons, to account by all means, and, if lingering, deliver with forceps.

Dec. 11, 4 a.m.—Has had some sleep intermixed with fits of reallessness; crics with rexation, and is greatly distressed at not being able to find the words she wants; says "pain,

"pain," for "pan;" bowels freely moved; some serous dis-charge from vagina. Beef-tea, brandy, common tea, with milk. 6 a.m.—Labour has clearly set in, uterine contractions about o a.m.—Labour has clearly see in decline contractions according overy twenty minutes; os opening, membranes protrading; great restlessness, soothed off by a small administration of chloroform; at 8.30 membranes bulging near vaginal orifice, burst, followed by very severe fit of convulsions. When these passed off, uterine action immediately returned, and a living male child was born at 9.15; placents soon followed; no hæmorrhage

Noon.—Patient tranquil, conscious if slightly roused; lifts left hand frequently to left forehead; moves left leg often; the right sometimes; cannot articulate; passes urine in bed. Pulse 72; breathing 20; temperature in axilla 100°.

10 p.m .- Patient turns on her right side, raises her left hand to arrange her dress, to adjust the feeder to her mouth, and wipe her lips; takes nourishment freely, but does not speak. Beef-tea, brandy and water, and tea with milk by turns every honr.

Dec. 12, 8 a.m. - A quiet night; is conscious if roused; takes nourishment freely; occasional twitchings of paralysed arm; makes no attempt to speak. Pulse 66; breathing 20; temperature 100-6

2 p.m.—Consultation with Dr. Farre, who thinks pulse less steady, and showing characters of cerebral mischief; its mean rate is 61, but it fluctuates in the course of a minute from 62 to 68; manifestations of consciousness slight, but decidedi.e., she wakes, opens her eyes, shades them from the light with her left hand; takes her food, opens her lips, guides the cup with her left hand : right still motionles

war ner eer nand; right still motionless.

10 p.m.—Some twitching of right leg, otherwise in statu
que; urine (twenty ounces) relieved by oatheter, full-coloured,
acid, not coagulable by heat.

Dec. 13, 8 a.m.—Has slept quietly; taking plenty of nourishment at intervals; looks up, smiles, and says "yes" when

spoken to. Pulse 74; akin normal. 9 a.m.-A sudden convulsion, of short duration.

behind left ear; five grains of scammony in powder.

11.30.—Another convulsion, of short duration, consciousness

returning immediately.

returning immediately.

3.30 p.m. Another convulsion, attended with an immense rush of fetid liquid and gas from bowels.

6 p.m.—Dr. Farre thinks pulse steadier, at 74; patient looked up, and smilled, and said "yes," the only word she atters. 10.30.—A succession of mild convulsions the last two hours, beginning with another fetid motion. Pulse 68; lessed cool; small inhalation of chiloroform seems to check them. Blemnth,

15 grains at once; ammoniated tineture of valerian; beef-tea to be thickened with purée of raw meat.

Dec. 14,8 a.m.—A quiet night, with no convulsions; sleeps for about half an hour, then wakes; nees her left hand, and moves left leg; answers "yes," and smiles. Pulse 72. Bread panada. 6.38 p.m.—Has had a quiet day; pulse varying from 64 to 78, now slight threatening of convulsions; rigidity of neck; twitching of limbs. Ice to head; a little chloroform occasionally; and poultice of linseed and mustard to abdomen.

Dec. 15, 1 a.m.—No return of convulsions; pulse 68 to 72; breathing 20; motions and urine pass unnoticed; three or four motions, dirty, serous; lochia natural; bosom slightly swelled;

takes soup, pushes away the brandy.

9 a.m.—Awake, but not restless till 5 a.m.; rigidity of jawa; cannot put out tongue or open mouth, hones cannot take any-thing thick, as purfe or panada. Pulso 64—72. Repeat blister; one dose of rhubarb, soda, and grey powder. 10 p.m.—In statu quo; three motions, less offensive; breats full and hard. Substitute sherry, which she takes readily, for

brandy, which she rejects.

16th, 8 a.m.-A comfortable night. Most of her time passed 16th, 8 a.m.—A comfortable night. Most of her time passed in apparently sound but not steerforous alecy, but wakes from time to time; looks up in recognition; arranges ice-bag on her head with her left hand; expresses pain when blister touched; mores left leg freely; takes food more easily; said "yea" when spoken to; breating easy, 24; pulse 68; bowels open (wiee' motions thin, not offensive; urine passed in maphin; dishless light; pupils small and contract both equally.

17th, 1.15 a.m.—A return of convulsions; squinting, all muscles of face working, and jaws churning, with great flow of saliva; profound unconscioumess; yet, on the nurse at-tempting to give beef-tea enema, during a quiescent period, there was great unconscious resistance and crying.

8 a.m.-Consultation with Drs. Farre and L. Beale. The latter does not take a hopeless view of the case, believing that symptoms equally severe might be caused by functional disturbance and hysteria.

2 p.m.-Intervals of ease and unconscious sleep, interrupted by convulsive fits, in which the paralysed arm and leg parti-cipate; some of these preceded by expressions of distress and action of bowels; motions brown, thicker. Pulse 76; breathing 22; temperature in axilla 1001. Breasts continue large and hard; a very cautious attempt to draw them seemed to distress. Beef-tea and wine have been freely taken.

Sir Charles Locock, who has given us the benefit of his opinion, takes a more cheerful view, believing much to be due to the nervous disturbance incidental to parturition, rather than to any organic mischief in brain. Recommends camplior in five-grain doses every hour, to subdue the spasmodic element.

5 p.m.—Occasional twitching of muscles of face, preceded either by heavier sleep with stertor, or by action of bowels, occasionally passing into severe general convulsions, affecting both sides of body; great flow of saliva from churning of jaws; complete flaccidity in the intervals, with fumer la pipe,

from paralysis of cheek muscles, yet masseters continue rigid. 18th, 10 a.m.—Convulsions continued at intervals till 12 last night, when they ceased, and a quiet night followed, with occasional fits of spasm of face, eyes, and neck. Patient with oc-assonal fits of spasm of 1800, eyes, and neck. A asserting that taken four doses of camphor; certainly opens mouth better this morning; shows faint signs of recognition; swallows slowly; breasts very hard. Belladonna epithem.

10.30 pm.—Has passed the day without severe convulsions, but frequent fits of spasms of face and eyes, with entire

unconsciousness and intervals of intelligence; moves left arm and leg, and takes beef-tea and sherry abundantly. Bowels frequently moved; pupils small, yet contract on exposure; face flushes at intervals; pulse very variable, may be 4 or 5, or rise to 8 or 10 in 5 seconds; temperature in axilla, 100°; breathing 24, regular.

Dec. 19, 8.30 a.m. - A quiet night, with occasional fits of spasm of face; pulse uncertain and variable; breathing tranquil, 24; slight stertor; face expressionless as waxwork, eyes fixed; swallows slowly. Gave good dose of soup and wine, and ordered belladonna to be washed off.

9.30 a.m.—Consultation with Sir C. Locock and Dr. A. Farre. Patient has wonderfully cleared up in the last hour. Eyes intelligent; features expressive; welcomed Sir C. Locock with assingent; restures expressive; welcomed Sir C. Loock with a smile, and tried to speak, saying. "Very well," and showing some emotion. Sir C. Locock felt he could give a happier prognosis. Battley's liquor cinchone five minims every four hours.

6 p.m.-Sir C. Locock and Dr. Farre again in consultation. Three slight spasmodic attacks during the day, and a good deal of heavy sleep; otherwise in statu que.

11 p.m .- Has taken beef-tea, bread-and-milk, and sherry freely; no attacks; pulse 84, not quite regular; perfect use of left arm; features natural; understands what is said, and whispered "Good night" when I said the same words as a parting salutation.

Dec. 20, 8 a.m.-A quiet night, save that bowels often moved, and some twitching of left arm and leg; but I see a great change for the worse, which, I am told, came on the moment change for the worse, which, I am told, came on the moment of my entering the room. Pupils widely dilated, and quite in-sensible; eyeball insensible to touch, though heretofore so sensitive; breathing fitful, husky, and accompanied with strange jerkings of the disphragm and muscles of the chest; left arm firmly bent and rigid; right arm rigid, but less soleft arm firmly bent and rigid; right arm rigid, but sees so-both occasionally jerk in convulsion; teeth elenched, but churning against each other; lips flaccid, and puffing with each expiration (fuser la pips); breathing occasionally sus-pended for intervals of two seconds; pulse 64 to 96, irregular.

9.30 .- Sir C. Locock and Dr. Farre in consultation. Sir C. Locock gave a little chloroform, which seemed to quiet the attacks; he hoped these might be epileptic, and not so danger-ous as they looked; proposed bromide of potassium and a lead lotion to wash out lochia, which were offensive.

10.30 a.m.-Convulsions continued; breathing irregular; but colour of lips and cheeks natural.

11.10.-After repeated convulsions, with suspension of breathing, she expired.

In reviewing the history of this lamentable case, it will be seen that there was no evidence of defect of urinary secretion or of kidney congestion, which undoubtedly accompanies or causes many cases of puerperal convulsions. Throughout pregnancy the bowels had been kept as regular as was possible, and on one occasion only—a month before—was the urine scanty, and was set to rights by citrate of potass. The preliminary numbness of the hand, and the paralysis, made me believe from the ness of the nant, and the paragram, hand to the first that the condition we had to deal with was apoplectic clot (or embolus, but there had never been any heart disorder). Dr. or emoting, our timer had never own any near timerary. Br. Farro held the same view. But the fact that Sir Charles Locock (who represents half a century's special experience in the highest department of midwifery) and Dr. Beale (who represents the most exact modern acientific research) should each regard the case as more probably functional, is an instructive comment on the difficulties of diagnosis. In most cases of brain disease there are periods of maximum and minimum of intelligence. If the patient be seen during the former, she seems safe. How often have I seen a hydrocephalic child lying in the nurse's lap, and the father or mother anxiously watching the features, and if these clear np a little, and there is a smile or look of recognition, then there is a gleam of hope—alas! too soon to be dimmed. There was in this case a period, up to the first convulsion at 2.30 p.m. on December 10, of perfect consciousness, with talkativeness, and merely some confusion of speech. After the severe convulsion which preceded parturition on the morning of the 11th, speech was abolished, or reduced to monosyllables. As to treatment, an efficient purgative is, I monosymanes. As to treatment, an emerge purgance is, a believe, the sheet-anchor in all cases of puerperal convulsions, and in most of apoplexy, but certainly the last dose of medicine did not act kindly, and the irritation of the bowels, aggravated by the impossibility of giving other than liquid food, seemed to enhance the tendency to convulsion.

(To be continued.)

ON THE TREATMENT OF EPILEPSY. By WALTER TYRRELL.

ALTHOUGH it is plain, as shown in one of my former papers, that the predisposing cause of epilepsy is a certain deficient power of nervous control, and that in this lies the chief obstacle to cure, yet it must never be forgotten that there are exciting causes present in almost all cases, which must be overcomebefore we can hope to relieve the predisposing cause. Therefore, in laying down any plan for the treatment of epilepsy, we must endeavour-

First-To discover and treat the exciting cause

First—To discover and treat the exatting causes. Secondly—To supply to the nervous system that strength secondly—To supply to the nervous system that strength are the supply of the system of the constitutes the prediposition to epileps. Now, these exciting causes may arise in almost all organs of the body, and must be treated with a variety of means. And this, I think, accounts for the large number of remedies which have from time to time been vaunted as specifics for epilepsy, all of which, when submitted to more searching trial, have failed to give satisfaction, for the simple reason that, although each was sufficient to relieve one form of exciting cause, yet it would be perfectly useless in others, and would have no effect whatever on the predisposing cause.

The exciting causes of epilepsy are often difficult to detect, but they may be stated, in general terms, to consist of irrita-tions (mechanical or otherwise) of the extremities of nerves in

any part of the body.

Among the more common forms of these irritations ma be enumerated :- Irritations of the mucous membranes of the stomach and intestines, as from the presence of worms or undigested food. Deterioration in the quantity or quality of the blood circulating in the cerebrum and spinal cord. Deposits, syphilitic or otherwise, on the meninges of the brain or spinal cord. Irritations arising in the sexual organs or nterine apparatus, or those which have their site in the throat or fauces.

Now, supposing any of these irritations to be excessive, con-Now, supposing any of trees irractions to the processor on the part of the parter. This fact is well illustrated by the convulsions (identical with those of epilepsy) which occur in infants from the irritation of teething. These attacks rarely ripen into permanent epilepsy, because, no prodisposition existing, the convulsions cases with the acting cause.

It is, then, advisable to watch every case of epilepsy carefully for some time before commencing treatment, to ascertain, if possible, the nature and seat of the exciting cause. This may often be obscure and difficult of detection, as is shown in

J. N., aged 42, married, but without family, has, for the last four years, been subject to violently convulsive attacks, atternating with others, which partook more of the character of prefit mal, but without entire loss of conscionsness. She attributed the attacks to the partial cessation and irregularity of

the menstrual discharge.

The attacks were preceded by fulness of the head and flush-The attacks were preceded by funness of the result musting of the face; the bowels were very irregular, but usually much constipated. As it appeared probable that the exciting cause arose from the irregular extamental flow, I placed her under warm purgaries treatment with iron. The alocite in a few days dislodged from the bowels large quantities of seybalous matters with a great relief to the patient, and a considerable effect on the attacks of convulsion, which were ultimately entirely overcome by a course of strychnia in small doses. The menstrual discharge soon after ceased entirely, making it evident that the exciting cause of the epilepsy has really been the irritated condition of the intestine and not the uterine derangement.

In the following case the attacks had been for some years attributed to sunstroke, but were afterwards plainly shown to be due to the presence of syphilitic deposit on the meninges

of the brain :-

R. W., aged 29, had been at sea for many years as officer in the merchant service, and had been much in hot climates. While in China he was seized with a severe convulsive attack, supposed at the time to be sunstroke. After this time the attacks continued at intervals of about every month, but gradually became more and more frequent, until, at the date at which I first saw him (Jnne, 1867), attacks occurred every week, and sometimes two or three times in one day. After watching him carefully for some time, I found, on questioning him, that he had for some years previous to his first attack been suffering from secondary and tertiary forms of syphilis, in the shape of sore throat, eruption, and ulceration of the legs. On examining his scalp, I found a plainly marked node over the left parted region; this was very tender on pressure. I now placed him on large doses of iodde of potassium with some sulphate of strychnia in solution, and with complete success, the attacks ceasing very shortly; and up to the present date he has remained

perfectly well.

pericety well.

There is no necessity for multiplying cases to show the diffi-culty of ascertaining correctly the exciting causes of the dis-case; nor would it be possible in a short paper to show what remedies are adapted to relieve the different forms of irritation when they are discovered. We will suppose that the exciting causes are discovered and remedied—in what way are we to causes are discovered and remedied—in what way are we to overcome the predisposition to epilepsy, without which the discusse would never have appeared? This question I shall now endeavour to answer. We must supply to the nervous system an increased tone and power of control; and we are in possessing the property of t an increased fone and power of control; and we are in possession of some remedies which will undoubtedly do this, among the most powerful of which is strychnia. In an admirable paper in the present volume of the "St. Thoman's Hospital Reports," by Dr. Clapton, "On the Action of Quinine," he related to the state as an anti-periodic, and goes on to show how valuable takes as an anti-periodic, and goes on to show low valuable state as a matter product of the control of to that effect

All that Dr. Clapton has said of quinine may, I am confident, be said still more strongly of strychnia. No one who has ever given it in epilepsy can for a moment doubt its power of re-lieving the attacks of convulsion; and Dr. Clapton, in the paper I have above quoted, narrates a case in which complete cure followed the administration of strychnia. In many cases it is possible to carry on the treatment of the exciting and predisposing causes at one and the same time. A good instance precisioning causes at one and the same cases in which there is present a hypersensitive condition of the gastrie branches of the present a hypersensitive condution of the gravine orances or me pneumo-gravito nerve; in these cases there is a marked weak-ness of digrestion, and attacks very frequently follow a full meal. Now, in these cases the nitrate of silver and sulphate of zino are of marked benefit, their action being, I imagine, to deaden the excessive sensibility of the nerves. Now, in these deaden the excessive sensibility of the nerves. Now, in these cases, if we combine the salt of silver or zinc with the sulphate cases, if we combine the sate of a siver or a new with the surpasse of strychnia in its appropriate dose, we are treating both causes simultaneously. Dr. Brown-Sequard has evidently hit upon this same truth, as in his last lecture he recommends that strychnia should be combined with the bromide of potassium. Space will not allow me to illustrate my plan of treatment with more cases. This I shall hope to do in another paper. I shall merely, at the risk of being tedious, recapitulate what I have been endeavouring to establish—that, to cure epilepsy, we must do two things: first, discover and relieve the exciting causes; secondly, strengthen the nervous system, and supply to it its lost power of control. This is only to be effected by one class of remedies, the most powerful of which is strychnis. Claremont House, Great Malvern.

SURGERY IN INDIA.

ELEPHANTIASIS OF THE LABIA (PROBABLY THE CASE ON RECORD)-AMPUTATION-RECOVERY.

By A. S. G. JAYAKAR, M.R.C.S.E. etc.

W., a married woman, agod about 25 years, was admitted into Hutteesingh's Hospital, Ahmedabad, on March 29, 1870, with two large elephantoid tumours in connexion with each labium. The right one, which was the larger of the two, measured from above downwards thirteen and a half inches, reaching an inch or two below the knee when the patient stood in an erect posture. Its greatest circumference was thirty-two inches. The tumour on the left side measured twelve two medical the vancour on the lett suc measured twelve inches in circumference, and was pedunculated. On separating the tumours, the vagina was easily seen; but the parts around were ulcerated, and presented a cancroid appearance.

Were inceraced, and presence a cancrota appearance.

History.—The disease first commenced, six years ago, in inflammation of the right labium, which, on the subsidence of inflammation, was affected with chronic thickening and induration. This went on gradually increasing, till it attained its present size. The patient described the left tumour to be of about six months' standing. Her general constitution was very good. Delivered of a full-grown child two years before the commencement of the disease, without any difficulty. Has

not borne any children since.

On April 2, with the kind assistance of Drs. Wyllie and Ruttonjee Hormusju, I removed the tumours. A small skin flap was dissected npwards from the surface of the right tumour, and, a similar one having been made on the lower surface, the tumour was transfixed and ligatured on either side. Then, with one sweep of the knife, the whole mass was removed. There was very little difficulty in removing the left tumour. There was a considerable hemorrhage at first, which tumour. There was a considerance numorrings us max, which almost threatened the life of the patient; but she soon rallied, and the hemorrhage was checked by means of pressure, torsion, and ligatures. The mucous membrane of the vagina was brought in apposition with the side of the skin flaps on either right of the threatened of the skin flaps on either right of the threatened of the skin flaps on either right of the threatened of the skin flaps on either right of the skin flaps on either right of the skin flaps of the skin flaps on either right of the skin flaps of orought in apposition with the size of the skin hape on either side, and portions of the flaps brought together by means of sutures. During the operation, while the patient was under chloroform, an abdominal tumour presented itself; but the question of pregnancy being rather inconsistent with the prequestion of pregnancy being rather inconsistent with the pre-sence of such large tumours, it was hurriedly diagnosed to be an ovarian tumour. Both the tumours together weighed 16 lbs.; but, considering the loss of blood and serum during the operation, the whole weight would be put down as 10 lbs. The patient progressed very favourably till May 15, when she missarried, giving birth to a dead foctus of aix months. On the 20th the wounds were entirely headed, and she was

discharged on May 23.

Remarks.—The rarity of such cases is in itself a point of great interest. The right tumour had attained such an immense size that I am inclined to believe this is probably the largest case of elephantiasis of the labia on record. On referring to several books on the subject, I do not find any mention made of such large tumours in connexion with the labia. I inclose a photograph of the tumours taken before the operation, that



it may give a general idea of the exact size. The second point of interest in the present case is one of pregnancy. It strikingly shows that sexual intercourse can be had even in the presence of such frightful mechanical obstacles.

METEOROLOGY OF 1870.—The greatest atmospheric pressure in the year occurred on the lat of October, when the arometer was read 30.06 inches, and the lowest happened on barometer was read 30 vo menes, and the sowes: nappeared on the 24th Cetober, the mercury being then 28-19 inches. The mean annual value was 29-41 inches. Highest monthly average, 29-60 inches, in April. Lowest monthly average, 19-16 inches, in October. The highest temperature was on the 23rd July, 39:; and the lowest, December, 25-8. Mean temperature of the year, 48.7°. The warmest month, July, 65°. The coldest month, December, 31.8°. The total depth of rain in the year was 25.54 inches, of which only 15.93 inches fell in the first nine months. The greatest deficiency was from March 4th to October 7th (217 days), rainfall only 9.42 inches. It was by far the driest period since 1847,

COUNTRY VERSUS TOWN MILK. By JOHN GAMGEE, Esq.(a)

Dr. MICHAEL TAYLOR, of Penrith, and Professor Bell, of St. Andrew's have, with Dr. Ballard, afforded positive evidence of the propagation of scarlet and typhoid fevers by milk. The cases recorded are so striking and circumstantial, that Medical men may well ask themselves what can be done to mitigate an evil of such gigantic proportions. The simple dilution of milk has been regarded by many as the worst form of deterioration has been regarded by many as the worst form or determinant injuring the milk consumer. But when it is considered that impure water, used in washing milk-pails, or diluting the milk, transfers from the cesspool to the breakfast-cup, or infant feeding-bottle, the germs of enteric fever, and that the scales of receing-bottle, the germs of enterio rever, and that the search as a scarlet-fever patient drop and fructify in the most essential of baby-foods, it is high time that, as practical men, we should consider the whole subject, and devise a remedy at once effica-

consider the whole subject, and derise a remedy at once cancelous, and of possible or probable application.

On April 16, 1862, in addressing the Metropolitan Association of Medical Officers of Health, I attempted to answer a very important question-viz., "Is the produce of diseased animals unwholesome as human food?" Unfortunately, there are still those who cannot believe that it is criminal that our households should be supplied with the flesh and milk of diseased animals. This is the case with those who have of late been most influential in directing Government measures.

In my reply to the above question, I attempted to classify the impurities known as pervading animal food as follows:—

"Firstly, cadaveric venom and animal poison of undetermined nature, including the flesh of over-driven cattle, the poisoned milk of a passionate woman, and the produce of cattle

afflicted with local diseases of a non-contagious type.

"Secondly, animal poisons, well-known from their effects in creating specific contagious diseases. These effects are constant, if circumstances be favourable for their development, and unchangeable. Under this head I originally referred to and uncangeable. Under this need toriginally referred to the poison of anthrax, cruptive fever, foot and month disease, pleuro-pneumonia, rabies, etc.

"Thirdly, organic poisons, the result of decomposition. The

sausage poison, cheese poison, putrid flesh and fish, all come under this head.

" Fourthly, the effects of mineral and vegetable poisons.

" Fifthly, parasitic animals and vegetables.

At the time I drew the attention of Medical Officers of At the time I arew the attention of Medical Umcers of Health to the above points, the cow-sheds of the metropolis were crowded with cattle, changed week by week, and even day by day, from the constant prevalence of the lung plaque and foot and month complaint. In 1863 I attempted to show how the town dairy system night be improved and the disease of cown prevented, and cemarked that town cow-sheds were as indispensable in large cities as stables for horses. Since then we have had a very effectual broom to sweep out the old eattle diseases, and the cows themselves. The cattle plague drove us to the country for milk, and rendered comparatively easy the organisation of such a system as that adopted by the Aylesbury Dairy Company, the Dairy Reform Company, and other associations, which now enable us to compare three dis-

tinct systems of milk for town supply.

The oldest of these, which, in spite of the contagious pleuropneumonia, was partially in force as late as 1860, consisted in the stabling of cows in and near large towns, without any regard to the comfort or well-being of the animals. The sheds were often old buildings, originally destined for better purposes, and not unfrequently cellars or ancient warehouses, constructed with a due regard to economy in the window-tax days. There were exceptions, but not so numerous or of such a class as to induce anyone to record their admiration for town cow-sheds. The public was usually excluded from such places by notices of "no admittance except on business," and business usually led only into the milk-shop. An examination of business saturity is only into the mix-snop. An examination of the cows revealed that, as a rule, they were old and of ancient breeds. Before 1840 the tendency was never to have cows in town until the farmer had drafted them from his breeding stock in order to make room for younger ones. When the animals growing days had passed, and there was a tendency to turn all the food consumed into milk, the cow-feeders preferred them. But the town dairymen were enterprising individuals, and they bought a cow, then two, and so on, until a large herd was crammed within very narrow limits in the most

crowded neighbourhoods. Thoughts of the country, and the many accidents occurring amongst the poor animals thus housed, induced the dairymen to rent fields in summer, and, ultimately, to secure a farm near the town. The cows, which ultimately, to secure a farm near the town. The cows, which had already served the breeder's purpose, were again need for breeding purposes, and a very wretched and wasteful system of town dairy breeding prevailed. There are, doubtless, those here who can remember strange specimens of old cows, good milkers, blind from prolonged confinement in close, fill ventilated dungeons, with their rise prominent, cough chronic, and an abnormal flow of milk, which sometimes seemed almost to increase with age. The old cow could always be relied upon for a drop; but no one vootbed for the quality. In those days cows were often phthisical; they were subject to lingering di-seases of a non-contagious character, which killed too slowly for the public good. The advantages of summer grazing on a common were extolled; and freemen cling tenaciously to this day to their privileges on open or waste lands in or near towns, notwithstanding that each succeeding spring or summer is attended with a recurrence of contagion, from the aggregation of cattle, healthy or diseased, from every part of

The average duration of a cow's life in town, in the good old days, would be not less than three years. The majority of the cows brought in with their second, third, or fourth call, would continue until, somehow or other, they had bred two or three more at tolerably long intervals. It was by no means uncommore at tolerably long intervals. It was by no means accom-mon for a cow never to be actually dry for three or four years, and some would go on yielding enough milk to pay for their keep for eighteen months or even two years after calving. In many towns, notwithstanding the wretched system I have described, the supply of milk was much more abundant than it has ever been since, owing to the large stock of cows then in the country. Amongst the poor of Edinburgh and Dublin, I have heard sad complaints of the privations endured since cheap milk could no longer be had for children; for the cheap milk of bygone days has been rendered an impossibility by the

wholesale destruction of dairy stock.

The absence of contagious diseases amongst cattle enabled In a secree or contagious messages amongst actue entored the dairymen to accumulate stock and wealth. From one, some gradnally reached to one short of 1000, and it is reported of a Mr. Biggs, that he somehow always failed to have more than 999 in his cow-sheds. Those were the palmy days of the town cow system, a system rendered obsolete in this country by the lung disease and rinderpest. It still prevails in some healthy countries, and, with the rapid growth of towns in the new world, we still see the combined townmilking and town-breeding system, which sanitary science

teaches us should for ever pass amongst the things that were.

The importation of foreign stock and foreign diseases introduced amongst us a new order of things. The foot and month disease, which appeared first, was observed by some veterinarians to be communicable to man; but since the malady was curable in the cow, it led to no practical change. The origin of the malady was enveloped in mystery, and of late years, when I insisted on its eradication, it was pronounced "atmo-spheric" and beyond our reach. But next came the lung It not only inflicted pain and inconvenience, but it killed. We should have known how to get rid of it, but the silica. We should have known how to get rid of it, but the disgrace of fostering it still clings to the British esenteheon, and must cling until the voice of reason and sense prevails. It is of no use for us to explain what should be done. The majesty of resistance frowns upon us, and the nests of a few are feathered, to the prejudice of the million.

reathered, to the prejunce of the minion.

But to return to the dairies—the old dairies, in which the number of immates gradually diminished, and out of which I have seen 10 per cent, per week carted or driven diseased to the slanghter-house and sausage shop. Medicines failed. The butcher proved the dairyman's safety-valve. Between ruin and selling diseased animals, the dairyman's choice was guided by his instinct of self-preservation. One of the old veterinary schools advocated ventilation, and ascribed the lung disease to east winds. The other simply suggested a string of prescrip-tions, with the alternative of the knife. Yet, until now, to the tions, with the alternative of the knife. Yet, until now, to the lasting disgrace of our veterinary institutions, the slanghter and sale of cattle afflicted with lung disease is openly and unbushingly advocated; and, what is more, the Government is thereby induced to temporise with the great and urgent subject of exterminating the contactous pleuro-pneumonia. The supreme and vital interests of the country—of every man, not a vegetarian; of every farmor in the United Kingdom—renders it proper and necessary that it should be known and widely preclaimed that the sale of diseased cattle as human food has been tacitly sanctioned under the advice of those whose advice

⁽a) A paper read before the Association of Medical Officers of Health, December 17, 1870.

alone has been listened to : and when I have drawn the attention of Medical men in anthority to the question, they have hesitated to enter into it, from personal considerations.

nestated to enter into it, from personal considerations.

For nearly a quarter of a century the system advanced from
bad to worse, whereby the lung disease established a hold on the
country, such as it never could have had but for the town dairy country, such as it never count have and out for the form dairy system. The cow-feeder's old stocks of ancient and phthicical cows passed away. Bulls were no longer kept in the cow-sheds. The cow-feeder's farm near town had to be sold or let. Everything was done to ensure a speedy realisation of money on the appearance of disease. From Essex, a trade in milk, to supplement the London cow-feeder's supply, sprang up. The country trade had always been somewhat in existence, and its complete development was mainly checked by the spread of contarious diseases to the herds of those firms engaged in the

supplementary supply of towns by road and rail.

Circumstances favoured my learning the cause and extent of Circumstances favoured my learning the cause and extent of the mischief caused by the lung disease. I first indicated that the foot and mouth disease and pleuro-pneumonia never originated spontaneously in this country. I then showed that, since the importation of foreign stock, the loss by cattle disease was four times the number of cows imported, and upwards of 50 per cent. of that loss was caused by the lung plague alone; that mountain districts were healthy: that counties where

cattle were frequently bought in were diseased; and the great centres of propagation were the cattle dealers' farms, the cattle markets, and town dairies. The average duration of a town dairy cow's life had been reduced to six months, and under: or, in other words, a dairyman whose standing stock would never exceed fifty, had to buy 100 cows during the year, and nearly the whole of these were sold to the butcher in various stages of contagious disease. All this was said to be exac-

gerated and overdrawn.

And this is not all. The town dairyman, finding that he required to be ever ready for the butcher, no longer bought in lean old cows. He sought the fine fat short-horn crosses of Cumberland, Westmoreland, and Durham. He discarded old cows, and bought in animals varying from four to six years of age, and killed them out so fast that the price of cows soon came ruinous, but for the old safety-valve, the butcher's shop. Instead of the stock of the country increasing, so as snop. Instead of the stock of the country increasing, so as to give us a chance against diseased imports, it diminished, and the destruction continued to overbalance the extent of our purchases from abroad. In actual quantity of animal food we therefore suffered, and us for quality, I believe opinions cannot be divided.

The milk, secreted in abundance even in the latent stage of pleuro-pneumonia, was sold, and several outbreaks of foot and mouth disease annually insured the wholesale supply to our infant population of a milk which direct experiments prove to be deadly to the young of those creatures that are liable to it. Man is one of those creatures, and I have very frequently attempted to show that it was wrong, dangerous, and highly reprehensible to permit the sale, under any circumstances, of the milk of cows afflicted with the foot and mouth disease.

The town dairy system of the quarter of a century from 1840 to 1865, which still holds its ground to much too large an extent, has therefore been a system enforced by the prevalence of contagious disease, and been based entirely on the disposal of the largest amount of diseased meat and milk which town dairies can yield for human consumption. Is such a system to be bolstered up?

(To be continued.)

THE collection of antiquities of the late Sir James Y. Simpson has been presented to the Society of Antiquaries of Scotland. The collection includes portions of sculptured slabs from Nineveh.

PREVENTION BETTER THAN CURE. - The following PREVENTION ESTERS THAN CURE.—The following curious advertisement appears in last Saturday's issue of the Maisren Nees. Mr. Smith has certainly hit in pon a novel mode of preventing the spread of searlet fever. If such a complete isolation of cases were generally adopted, it is not too much to say that the disease would be less common, if not eventually samped out. Mr. Smith makes the fact known of scarlet fever being in his house by posting this information on his gates at the entrance to his grounds:—"Mr. Trederick Smith, and the season of Lessian, amounces that his two youngest children have of Lessian, amounces that his two youngest children have scarlet fever; his four elder boys were removed, after disin-fection of their persons and clothes, into lodgings on the day on which the disease in the little ones was pronounced. N.B.— This advertisement will be continued till the Medical attendant shall certify that there can be no risk to visitors and others."

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

ST. GEORGE'S HOSPITAL:

SOMEWHAT UNUSUAL FORM OF PARALYSIS.

(Under the care of Dr. OGLE.) THE patient, a widow, aged 39, who had for some years had great mental distress, was admitted with great loss of power in all the limbs, and awkward, shaky, and unprecise way of nsing them. She said the right leg and left arm were way of naing them. She said the right leg and left arm were the worst. She was very thin, but there was no emaciation of any one set or group of muscles, and no muscular rigidity. There was a peculiar slowness and drawling character of speech, and slight tremor of the muscles of the face and tongue, but her intelligence was unaffected; and, saving occasional dimness of sight, her special senses were entire. There was a tendency of sight, her special senses were entire. Incre was a tenionicy to oscillation of the eyeballs. The memory was said to be bad at times as regards recent events, not so of things long gene by. There was some loss of sensibility of the soft palate. Galvanism by Stöhrer's battery showed greater muscular contractility in the right arm than in the other limbs; but no perceptible difference in the sensibility of the muscles of either perceptible difference in the sensibility of the muscles of either arms or legs existed. White atrophy of the optic nerves was found, on using the ophthalmoscope, by Mr. Carter. It appeared that the patient had first experienced want of power three years previously, which began in the right leg. She had had a sister who died of the same disease as her own.

This case presented certain features of general paralysis (i.e., of lusane), but there had been no delusion or mental defection, and Dr. Ogle inclined to look on it as one of creeping or peripheral hemiplegia, which had not confined itself to side. It is under treatment by steel wine and liquor arsenicalis, with generous diet, and also galvanism of the limbs and down the spinal cord, by Stöhrer's battery, every other day.

PARAPLEGIA IN A BOY AGED SEVEN, CONNECTED WITH CURVATURE OF THE UPPER PART OF THE DORSAL REGION OF THE SPINE.

In this case the lews were persistently kept extended and highly rigid, and when they were crossed he was unable to separate them. At times he had involuntary movements of the legs, and he had the rope-like tightness across the abdomen. une uga, and he had the rope-like tightness scross the abdomea. On the application of a hot apoon, or tickling the feet, the legs were slowly drawn up to the body; but by forcibly bending the ends of the great toes, the legs became as if suddenly unlocked, and were briskly drawn up. Dr. Ogle alluded to some cases, described to him by Brown-Seyanard, of spinal diseases where a similar sudden relaxation of the legs could be produced in the same way.

PARAPLEGIA OF SOME STANDING, SUDDENLY BECOMING WORSE.

The patient, a gardener, had been much exposed to sudden change of temperature up to three years ago, when he became subject to numbness in the fingers of the right hand, with a pricking and tingling senation. It then subsided, and affected the fingers of the opposite hand; and after six or seven weeks the left foot boams affected, which extended up the leg to the hip. Under cod-liver oil and quinino he waters, but no good resulted; and after returning home squin tried the oil and quinine, and improved for some time, but, remaining very weak, he did nothing for nearly two years. Suddenly, whilst in the train, numbness came on in both legs, hips, and back, and he lost all power in the legs, and was brought to St. George's direct from the rule legs, and was brought to St. George's direct from the rule back by a croblet-ball. Refer action was easily excited in the legs, and subject to numbness in the fingers of the right hand, with a appeared that in 1851 he had had a severe blow on the back by a cricket-ball. Refer action was easily excited in the legs, and tremors of the muscles, and pain, remain some moments after consaing from thillation or pinching. There was much pain in the back, and great hyperesthesis of the skin of the legs, with diminished temperature of the lower limbs. Dr. Ogle commented on the rarity of hyperesthesis in paraplegis. Under the way the lowest the lower limbs. Dr. Ogle commended on the rarity of hyperesthesis in paraplegis. Under the symptoms are improving—that is, the pain and present the lower great and the state of the company of the lower limbs. The lower limbs are greatly as the state of the checks, and slight difference in the size of the pupils. There has been no interference with the sphincters. ference with the sphincters.

Dr. Ogle looks upon the case as one probably of softening of the spinal cord, in which extravasation of blood has suddenly come on, partly in connexion with the spinal membranes. symptoms of iodism were produced, the iodide of potassium was for a time left off, and he is now taking it in smaller doses, with cod-liver oil, iodide of iron, and quassia. It was remarkable that several attempts were made to blister the back in vain for the space of ten days; contrasting with the rapidity with which sores often form in paralysed parts.

TWO CASES OF PLEURITIC EFFUSION OCCUPYING THE ENTIRE CHEST ON ONE SIDE.

Both cases are males, and of exactly the same age-viz., 32 ears, one being a Frenchman (a groom), and the other Eng-In the one case the right side, in the other the left, is affected, the heart being in the latter pushed over, so that its beat is at the ensiform cartilage. In the case of the Frenchman, regophony behind was well marked, and now, on convulescence, the "rednx" friction is well heard. In the Englishman, kidney disease exists, and physical examination shows indication of tubercular deposit at the upper part of the lungs; he has also spit blood. Both were treated by iodine externally applied, and small doses of squills, digitalis, and blue pill, carried so as to touch the gums. In the one case, good and rapid progress is being made in the right direction; in the other case, much relief has been afforded as regards cough, pain, and dyspnosa, but not much reduction of the fluid in the chest effected as out not meen reduction or the fluid in the clost effected as yet, nor can he lie on the opposite side. Dr. Ogle gave the mercury in both cases, with the view of seeing if its action would be the same in two cases rendered pathologically so different by the presence of tubercule and kidney disease in the one and not in the other. Hitherto much more desirable effects have attended its use in the case free from the above complications. In the other case, the salivation in a given time was much more decided than in its fellow, but nevertheless was quickly recovered from.

was questly recovered from.

Dr. Ogle mentioned a private case in which he had lately,
for a few hours only, heard, over a large portion of the pleura,
behind, on one side, intense loud frietion-sound, which had
totally vanished, and had not been succeeded by effusion of fluid or appearance of adhesions. It was treated by hot applica-tions constantly applied, and laudanum, over the affected parts. He had also had a case in the Hospital of similar extensive He had also had a case in the Hospital of similar extensive pericardial friction-sound coming on, and lasting for a few hours, and then disappearing without further issue. He is inclined to look upon these friction noises as owing to dryness of the serous membrane which has not gone on to effusion of

fluid or fibrine.

The Frenchman above alluded to could not endure the acrated hread, which we find the patients cat at St. George's Hospital unless other bread is specially ordered by the Phy-

THE LOCK HOSPITAL, SOHO.

STATISTICS OF CASES OF SYPHILIS AND OF VENEREAL SORES TREATED AMONGST THE MALE OUT-PATIENTS IN THE YEAR 1869.

(Under the care of Mr. BERKELEY HILL.)

At the present time, when in many quarters the question of the unity or duality of the syphilitic virus is being again warmly discussed, the valuable statistics gleaned from Mr. warmly uncoused, the valuable statistics greaned from Mr. Hill's notes of the men under his care at the Lock Hospital in 1869 will be found to be full of interest. It should be noted that only those apply for relief at this Hospital who believe themselves to be suffering from venereal disease, and therefore the number of cases of visceral or tertiary syphilis is small, these affections being seldom attributed by the patients to their original cause. Only those cases are included here which fall under the category of either venereal sores without constitutional syphilis, or of syphilis itself. It may be mentioned, however, that besides these there were 1282 case of urethritis or gonorrhos, of which 631 were of acute urethritis without complication, 406 of acute urethritis with some complication, and 245 of chronic urethral discharge.

Amongst the complications attending the acute cases there were as follows:—Phimosis, 25; balanoposthitis, 31; irritated lymphatic glands, 21; suppurating bulos, 8; inflamed lymphatic vessels of the penis, 7; chancer, 7; syphilis, 5; retention of unine, 1; chorcles (obstinate), 19; varioosele, 2; eccema, 1; roseola balsamica, 1; epididymitis, 61 (35 of the left side, 21 of the right, and 5 donble); orchitis, 6, 3 left, 1 right, and 1

double). In the cases of epididymitis the time the inflammation set in was noted in 38-5 began during the first week of tion set in was noted in 38-3 began during site risk weak to the discharge, 6 in the second, 6 in the third, 6 in the fourth, 3 in the fifth, 4 in the sixth, and 1 in the seventh, eighth, ninth, and tenth weeks respectively. In three cases the patients declared their discharge had lasted six months, and one a twelvemonth; but little reliance was placed on their.

Venereal Sores without Syphilis .- This class included 201 patients, and of these the sores were multiple (more than one sore being noted on the same person) in 76 cases. Position 36 on the inner surface of the prepuce, 30 in the furrow behind the glans, 30 at the fremun, 20 at the free border of the prepuce, 14 on the sheath, 11 at the meatus urinarius, 2 at the root of the penis. In the rest the position is not specified. They had the following characters:-71 were excoriations or very shallow sores, and suppurating but little; 32 were in-flamed—that is, painful, with much red arcola, and secreting yellow adhesive discharge; 19 were spreading or scrpiginous of these being stoughing sores; 20 had well defined edges, copious viscid discharge, and spongy floor; 9 were raised and prominent, with large granulations; the rest were either in-dolent or not described beyond being soft suppurating sores. some or not described beyond being soft supparating sores. Their concomitants were as follows:—In 28 the glands were only irritated; suppurating bubo in 22, of which 4 were marked; virulent phimosis was present in 19; balanoposthitis in 13; inflammation of the lymphatics of the sheath of the penis in 3.

It must be observed that these numbers include the cases which healed during their attendance without indurating or without constitutional syphilis developing, as well as those who only attended once or twice, but who gave no symptom making the ultimate appearance of syphilis probable, of course, formed a considerable number of the whole.

Treatment of Local Sores .- When inflamed or only simple excoriations, the dilute sub-acetate of lead solution was generally prescribed. For freely suppurating sores, with pain and tendency to spread, carbolic acid solution—1 to 30 or 50 of water, with or without a little glycerine. Stronger solutions were now and then given to men likely to be careful in their Black wash, simple lime water, or solution of sulphate of zinc were the usual stimulants to languid sores, opium being of zinc were the issual stitumants to angula sorse, opinin oring in a few cases added, if the gain was severe. Rapidly slough-ling the stitum of the stitum of the stitum of the stitum Hospital for more systematic treatment. In two cases of obstituate creeping abscess of the glans penis, which had resisted other efforts, dry calomel dusted over them caused them to held rapidly. If industation of the sorse and enlargement of the glands set in while the patient attended, mercury was at once given, but these cases are not included in the foregoing category.

Syphilis. - 403 cases had constitutional disease. In 71 other patients, hard-based sores, with multiple enlargement of the inguinal glands, were found, but they had been kept separate during their short period of attendance. They were, nevertheless, treated as syphilitic at the time they were seen. In the patients clearly suffering from constitutional disease, the sores, when present, had very much the same position as the local venereal sores—namely, 41 in the furrow, 31 on the inner prepuce, 17 at the frænum, 15 at the free border of the prepuce, 12 on the glans penis, 10 on the urethral meatus, 24 on the outer prepuce, and so on. In one man, who was covered with syphilitie maenlæ and papules, with scabs in the hair and erosions on the tonsils, no sore, or trace of sore, could be found on the genitals or anus, on the lips, face, or fingers. There was, moreover, no enlargement of the inguinal, submaxillary, or axillary glands. The patient denied ever having had a sore or chafing, but confessed to a thin discharge from the urethra the last two months. On examination of the urethra, a scanty mnco-puralent discharge was found, but the endoscope showed that no exceriation was present as far as the bulb. The patient was put under treatment, and had subsequently other syphilitic affections, but no sore or papule developed on the genitals.

ance down, our no sore or papure overeloped on the gentals.

In character, the syphilitie sores differed considerably; 9 were
spreading, 3 excavated, 6 suppurated freely. In one sore only
was induration absent throughout its existence. In about six
weeks after its appearance it had entirely healed, by which
the two colors and personal control of the colors. time the roseolar and papular cruptions were well-marked. 106 patients the multiple indolent enlargement of the lymphatic glands was very marked on both sides; in 10 cases acute infinamention of the glands, with suppurating bubs, occurred; in only one was permanent absence of enlargement of the glands noted; in 5 cases induration of the dorsal lymphatic vessels of the penis took place.

The eruptions of the skin noted were most frequently the papular, next the roscolar, then the pustular or bullar. In three cases the eruptions appeared to be confined to the skin of the penis and scrotum, where it took the form of configurate scaling papules or moist ulcerated patches. In one case the eruption over the back and shoulders was arranged in groups of minute coppery papules, each of which, when examined with the lens, was seen to be tipped with a fine scale, as if the

Ginany syphilides occurred very seldom. In three cases it was confined to ulcerative nodules in the skin of the knee. In six eases the hard palute was attacked with necrosis. In seven the soft palate was the site of gummy disease and ulceration The tongue had gummy disease in two cases; they were both on the left side. Iritis was observed in few cases, being noted as severe in two, in one of which the sight was almost wholly gone from accompanying disease of the choroid and retina. In two cases thickening of the capsule and hymneuts about the knee-joint, with some effusion into the interior. ane znee-jount, with some effusion into the interior. The patients complained little of pain, and the disease was always checked by a few doses of iodide of potassium. On the inner side of the joint, in one case, the soft parts were beset with nodules, and generally thickened, so as to be hard and inclusie, the whole of which cleared away under iodide of potassium, in about four months after it came under treatment. In another patient, an old Crimean soldier, with caries of the frontal and parietal bones, the sheaths of the extensors of the three inner fingers of the right hand were thickened and filled with effusions of fluid. This yielded, in like manner, to the same treatment.

Treatment of Syphilis .- The indurated sore and enlarged glands were, as a rule, treated by mercury in moderate doses— that for meu being nasually five grains of mercurial pill with half-grain of powdered opium every night; eight pills being given at each visit. This quantity sufficed, in most cases, to bring the patient under the influence of mercury in a week or The influence was continued for three or four months. or until the sores had soundly healed, and other symptoms had of until the sores and soundry neared, and other symptoms mu vanished, when iodide of potassium replaced the mercury. The lattr affections of apphilis which were most benefited by mercury were the papules of the pains and soles, many of these being totally unaffected by iodine in large doses. So, also, the papular affections of the tongue, and the deep chinks which sometimes accompany the papules, required mercury. In obstinate cases of relapsing syphilis, very large doses of iodide were given; thirty or forty grains thrice daily were not infrequent, and drachm doses occasionally, either with ammonia, sarsaparilla, or simple bitter. Pitch ointment was often very effectual in closing obstinate fissures of the hands and round the mouth.

It is worthy of remark how much venereal disease and suffering from disease of the genitals is caused by neglect of personal cleanliness. Phimosis and balanitis were present in 167 patients; while, of the 437 ulcers of the genitals, a very large proportion were situated in the furrow behind the glans, prepuce, and on the inner surface of the prepuce. These are exactly the situations where want of cleanliness excites herpes and excoriation, and thus sets open the door for the entry of contagiou.

RADCLIFFE INFIRMARY, OXFORD.

ENDO- AND PERL-CARDITIS, WITHOUT AFFECTION OF JOINTS, FOLLOWING SUBACUTE RHEUMATISM, AFTER A FIVE WEEKS' INTERVAL OF OBSCURE FEBRILE SYMPTOMS.

(Under the care of Dr. GRAY.)

EDWARD A., aged 16, was admitted into the Radeliffe Infirmary EDWARD A., aged 10, was admitted into the Radeuire informary in February, 1868, with the remains of a first attack of subacute rheumatism, of about a month's duration. The joints of the lower limbs alone had suffered. On admission, he presented the following symptoms: -Slight pain, without swelling, in one knee; pain in the right side of the occiput, constant in the erect posture, orly occasional in the recumbent; a remarkably dry, harsh skin, of temperature 991; pulse 120, very smill and weak; urine with excess of phosphates, no albumen; heart-sounds normal. He was very phthisiscal-looking. Apex of right lung gave rather prolonged expiration and slight increase of voice-resonance, without any percussion-dulness. No cough.

Although the pain left the knee a day or two after admission, and never afterwards returned in any joint, he did not convalesce. He remained exceedingly weak, with a small pulse, oftener above than below 120; skin harsh and dry, with an average morning temperature of 100°, and constant complaint of occipital headache, but no gastric disturbance. For the next five weeks, these obscure febrile symptoms, with only slight occasional remissions, constituted the sole complaint. At the end of that time they quickly subsided, on the development of an attack of endo-peri-earditis. By the time the friction-sound was fully pronounced, the skin had regained its natural moisture, and almost its natural temperature, the pulse had fallen to 100, and the headache had ceased. The pericarditis got well in a fortnight, without any effusion. The endocarditis left behind it a mitral and sortic regurgitant murmur, both of which had ceased to be audible by the middle of May. On the subsidence of the acute heart-mischief, the occipital headache again returned, though not so constant as On the subsidence of the acute heart-mischief, the before, and rendered convalescence very tedious.

We have here an illustration of the difficulty of diagnosis in cases of rheumatic fever, when, as sometimes happens, the con-stitutional symptoms of the disease occur and persist, independent of any local manifestation. In the above case, the febrile symptoms, persisting for weeks after the joint affection had vielded, were suspected to arise from the development of tubercular disease in the chest. This view was at least strongly cular disease in the chest. This view was at least strongly countenanced by the boy's general appearance, and the suscultatory signs in one lung; indeed, any other diagnosis at the time was scarcely to be entertained. The further progress of the case, however, renders it, to my mind, highly improbable. A period of constitutional disturbance, preceded by articular rheumatism, and followed by acute cardiac inflammation, points almost unmistakably to the lurking of rheumatic poison in the blood-in other words, to suppressed or latent rheumatism. A series of five cases illustrating this same point-viz., the nnusual relations sometimes found to subsist in rheumatic fever between its constitutional and local symptoms—were given by Dr. Russell, of Birmingham, in the Medical Times and Gazette of December 3, 1870.

LEEDS GENERAL INFIRMARY.

(Under the care of Dr. CLIFFORD ALLBUTT.)

THREE interesting cases of abdominal disease have recently been under Dr. Allbutt's care, all occurring in young boys, and

all discharged cured.

The first case was one of impaction of freeces in the transverse The first case was one of impaction of neces in the trinevirse colon, of six months' standing. Six months ago the boy was "sized with a pain in the body" when going to his work, he then discovered a lump in his body, which had remained ever since. His bowels, which were costive, had latterly been relaxed. Some symptoms of obstruction had also appeared, but not to any severe degree. On examining the body, a tumour was found exactly occupying the site of the transverse colon; it was irregular and doughy in feel, and dull on percussion. The general condition secured to negative malignant disease, and the symptoms of obstruction were not malignant disease, and the symptoms of obstruction were not complete enough for intusement prior in a was there blood in a sign of constitution, and depended frequently on irritation of the gut by retnined freed masses. The boy was tratest by succession of large injections of warm oil and grul, which brought away black lumps of faces, and diminished the tumous transfer. piecemeal, as was evident on physical examination

The second boy presented a more remarkable subsidence of a imour. He was 12 years old, and came from Ripon; he complained of a heavy, painful lump in the right hypocheudrium. This he had noticed for four years. He lived near a river, in This he had noticed for four years. He lived hear a river, in a rather damp place, but said he had not had ague, nor did he know anyone who had; nevertheless, the tumour was distinctly a very large spleen. A young woman had re-cently been under Dr. Allbutt's care, for what he called "acute splentit"—that is, the spleen became but, trader, and enlarged, sprening—that is, the spreen occame not, router, and runged, and there were febrile symptoms at the outset. She was much benefited by bromide of potassium after long ineffectual treatment by quinine and other drugs. This boy's case scened like that of the young woman, and bromide of potassium was ordered. For a week there was no improvement, but Dr. Allbutt's clerk made out during that time that the boy had suf-fered from "queer shakings" in a morning about the time the lump came and subsequently, and he had been cured of the tump came and succeptuary, and no may been curve or the shakings at Ripon Dispensary. Ten grains of quinine were therefore ordered at once, with a mixture containing two grains three times a day. On the next day but one, Dr. Allbutt went to the bedside and requested a student to diagnose the case (which was unknown to him). He seemed curiously at a loss, and others were called to the bedside with cynal unsuccess. It became then evident that the spleen, which had been being as a constant of the state of the

The third case was one called by Dr. Allbutt "spurious peritonitis." As certain other cases are called spurious hydroophalus, so these not uncommon cases imitate tubercular peritonitis so closely that an immediate diagnosis is scarcely possible.

In the present case, a boy was brought to the Hospital, aged about 12, who had been losing flesh some months. His skin was harsh, his flesh wasted, his cheeks fallen, and his eyes rather was harsh, its fiesh wasted, his checks fallen, and his year atture sunken. He had suffered also, and was still suffering, from wandering severe ubdominal pains, and from constipation alternating with diarrhess. The appetite was capricious, and the tongue red. The pulse was about 100, and week. On examination, there was no definite disorder in the chest, but the abdomen was tumid and doughy to the touch; it was tender, also, on percussion, and there were several tracts of indefinite Dr. Allbutt said that careful watching of the temperature for several days would generally decide the diagnosis, in tuberele a higher evening temperature was to be expected. In spurious peritonitis the temperature might also occasionally reach 38° (C.), but not commonly or regularly. In the present se, the thermometer pronounced against tuberele and in favour of spurious peritonitis, which Dr. Allbutt attributes to disordered secretions, with the irregular bowels and tumid abdomen as a consequence, while the wasting is due to deficient assimilation. The indications for treatment are-to put the bowels in thorough order, to improve the secretions by alkalies, mild bitters, and podophyllin, and to put the patient upon bland and nourishing diet. When this treatment has set matters straight, a short course of cod-liver oil and mineral acid with gentian is generally sufficient to restore the health. At the gentian is generally summent to restore the heatin, as sue same time he would remark that these cases, if neglected, night end in mischief of a more serious kind. The present patient was discharged in a month, quite cured, and looking fresh and well. Spirious peritonitis is more common among the ill-fed and neglected children of the poor, but it is seen also in the families of the richer classes.

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Medical Cimes and Gazette.

SATURDAY, JANUARY 14, 1871.

MILK: TOWN AND COUNTRY; EFFECTS OF TRANSPORT; SOUR PREPARATIONS OF—SWEET ESSENCE OF RENNET—KOUMISS.

The publication of Professor John Gamgee's elaborate paper on town and country milk suggests to us that a few observa-

tions on milk and its preparations may be acceptable. It may be remembered that, a year ago, we caused an extensive series of analyses to be made of the milk sold by the most eminent dealers at the West-end of London, and that the conclusion arrived at was, that good milk is to be obtained by applying to any well-known dealer with character and capital; and that, on the whole, the milk sold by the cow-keepers who have their establishments in or near town was superior in richness to that brought from the country—although we give no small praise to such associations as the Aylesbury Dairy and Reform Dairy Companies. Competition seldon fails to benefit the public.

There can be not much mystery in the production of milk. If town dairies, at any given epoch, yielded richer milk than country ones, it was solely due to the amount of care and capital invested in them. We may be quite certain that the best breed of cows, the richest food, and the most careful tending will be shown in the quality of the milk. If the town and suburban dairies of the present day excel in these respects, it is the interest of the country ones to try the same means. So long as cows of poor breed are senalty and coarsely fed and exposed to cold, so long the milk will be poor. But, if we are not deceived, we shall soon hear that country milk-desiens are not deceived, we shall soon hear that country milk-desiens are fast rivalling the Londoners— buying the best and most untritions food, such as cotton-cake, and uniting with these measures all the advantages of pure air and freer space.

We have the objection valued sometimes that town milk is extifered, and country milk network. If so, the artifice consists in initiating, so far as possible, those natural conditions under which milk is the richest—viz, rich food and warmth. The cockeny idea of milch cows graving in water meadows in January makes one shiver. Whether is town or country, rich food and warmth are essential; and if we have no smeshine or rich meadow grass in January, we must use the best substitutes—if we want good milk. If by "natural" people mean what comes of itself without care or cultivation, they will find that few articles of food worth having are natural.

As for the petty depredations—the skimming, watering, colouring, and the like—we must trust to competition and publicity, and believe we are safest in the bands of large capitalists. We have no belief that the countryman is better than the Londoner, Culum row assume multiput, etc.

We may concede, then, to the country dairies, that they may, by taking the proper means, rival the town ones in the quality of their milk. Now comes the question of transport; and here we adhere to what we have before said, that whilst for elder children and adults it does not matter, yet that for young sucklings, such experience as we have hitherto had shows that it is the safest to have the cow near at hand to the baby; and that a few cows dotted at intervals over a town for this purpose, or in the nearest suburb, would not contaminate the air more than horses or men, and would save much infant mortality. This dictum is based chiefly on experience. We know that bubies have thriven on the milk of a neighbouring cow, whilst pining on that brought from the country. We know, also, that transport effects important changes in milk, and assume that this may be the reason of the difference.

Here two questions arise—What are the precise changes wrought in milk by transport? and Are these changes necessarily hurtful to milk as a food generally, putting the babies on one side?

On the first point, we may say that transport seems to induce a kind of molecular change in the curd, so that it does not cale nor fairly separate from the whey when submitted to curdling ingredients, but remains diffluent; and in this condition the cream does not rise into a distinct mass, insemuch that the master of a workhouse, to which such milk was supplied, described it as "all cream." Moreover, it seems that milk brought long distunces, and not cooled first of all, is liable to turn sour quickly.

Sampl

The fact of minute changes in the classine, entirely due, as we believe, to the shading and churning which milt undergoes in transite, is substantiated by evidence furnished in the Milt Journal—a new periodical devoted to the interests of the milt, butter, and cheese trades, and calculated to spread a great deal of valuable information amongst the manufacturers. The writer in this journal, after noting the well-known fact that that especific gravity of milk is no test of the goodness of the milk, unless the quantity of cream be taken into account, proceeds to say:

"In the course of an examination of milk undertaken for this journal, the observation was made that there is another source of inaccuracy hitherto quite unsuspected. Skimmed milk consists anishly of water, caseine, milk-sagar, and a small quantity of mineral salts. Now, the exact molecular condition of the easien influences the specific gravity of milk. In other words, samples of milk of the same strength will vary in the condition of the case in the condition of the condition of the case in the condition of the other conditions. The condition of the condition brought out if milk be kept for a while. This is illustrated by the following examples.

"We have had to notice the untrustworthiness of specific gravity determinations of milk-that is to say, the danger of judging of the strength of milk by its specific gravity. To be of any value at all, the specific gravity determination must be made while the sample of milk is very fresh. After milk has been kept for two or three days, even in a chosel event, its specific grampine on this property remarkable summer. The following grampine on this property remarkable summer. The collowing or the property of the specific property of the specific property of the milk had been been in corked bottles for four days: :—"

		8p. g	r. at 60°	Fahr.	Per Solida	centage of dry, at 21:	rr.	Percentage of Ash.	
lo	a		1.000	4		11:34		0.94	
	B		0.996	0		10-48		0.75	
	c		1.018	4		8-92		0.66	
						**			

Showing that the highest specific gravity sometimes accompanies the lowest percentage of solids. The reason of this want of correspondence between specific gravity and solid contents we have already explained."

We confess that we believe some error lurks here; such a deficit in specific gravity as is represented by the difference between 1-200, the common specific gravity of milk, and 0-2900, least han the specific gravity water, if real, can only be due to expansion of the milk, or to development of alcohol, or incipient generation of gas. Are we to believe that milk containing more than 10 per cent. of solids becomes lighter than water if kept two or three days? We are sceptical; but if true, it is an illustration of changes wrought by movement and time. But it still is matter for pure observation to decide,—Is milk altered in this way less wholesome for ordinary children?

Most English people consider that, if milk is in the least soured, it is unit for use; and large quantities are through source, and the property of the state of the state of the able. But, although sour milk may not be nice in tea, yet, the unit of the state of the state of the world, sour paddings, and with fruit. In many parts of the world, sour milk is a regular luxury; and there is no reason why it should be discarded here.

We may recall to our readers' memory the paper by Dr. Ballot, of Rotterdam, "On Buttermilk as Food for Infanch'.
Now, buttermilk, like sour milk, has undergone two of the changes which milk undergoes in the stomach—it is acid, and curdled; and the curd has been comminated by shaking. It is worth considering whether, in some cases of infantlle arrophy, the changes which milk undergoes in the stomach may not be anticipated. For adults with feeble stomachs we administer perjoin, for infants we have resmet. It is customary in some counties to slightly curdle milk with remort, and if it be intended for adults, wine, spice, and cream are added to the dish. But there are many children who thrive on plain junket (as it is called), and for these the secret extended.

of remet is more convenient for use than a portion of the veritable call's stomach.(a)

(To be continued)

ON THE PHYSIOLOGY OF DEATH BY HANGING. To write, even in the most carefully scientific way, on death by hanging, is, of necessity, to treat on a subject that, in no sense, can be made matter of fascination. is about the subject, nevertheless, that which calls for the consideration of the man of science. There is in it strange physiological interest; and, as it refers to a mode of death which in these days-still very barbarous days-is carried out in our country, in America, and in other places, as the method of inflicting capital punishment, it must have in it some political interest also. Physiologist and politician, however, looking at the process of death by hanging, view it in widely different lights: the physiologist observes it as a process in which, after certain of the phenomena of life are abolished, other phenomena for a time remain; the politician looks upon it as a process of ready and happy dispatch by the which he can clear off the earth those he thinks have no longer any right to exist upon the earth.

These are singular differences of apppreciation.

Recently, the distinguished Medical jurist, M. Tartlieu, has entered upon a new study of the physiology of banging; and although he advances but little that was not before known in parts, and that was not before published by stray observers, here and there, he has done a good work in bringing together, in orderly array, a number of facts which bear one on the other, and give us, as he has combined them, more definite principles than were previously in our possession. We will, therefore, taking Tartlieu's work as a text, briefly recount what seems to be best known.

Tardieu takes his information from various sources from experiments conducted on the inferior animals; from observations made by M. Faure; from the experience of Fleishmann, of Erlangen, an enthusiant who allowed himself to taste of death, by the halter, to the extent of secertaining all that can be felt by the banged—who allowed himself, that is to say, to be hanged by skilful nanipalators until he was insenable—and from the experience of persons who, having tried to commit suicide by hanging, have been rendered insensible by the act, but have been cut down before they were actually, dead, and have been rendered to life.

On perusing the facts in this way collected, we are struck at once by two facts. First, we discover that in many cases the actual time of death is very prolonged : in man, it is assumed, death commonly occurs within ten minutes, but it is often after a much greater lapse of time. Secondly we learn that the period of sensibility and of consciousness is extremely short, and that the conscious period itself is unattended with any acute pain. In certain cases Tardieu believes that death, or rather unconsciousness, takes place from syncope before the period of suspension, and that there is consequently no knowledge of the violent death, by the person killed; in other cases, where the consciousness remains until the moment of suspension, there is either a brief interval of continued consciousness or immediate unconsciousness. In some persons, indeed, who have deliberately made their own preparations, and have suspended themselves, but have been cut down to be resuscitated, the recollection of every fact has passed away from the moment of suspension.

The sensations described by these who, after recovery from the insensibility caused by langing, remember something of the carly part of the process are extremely uniform; they are four usually, in number, but all are not present in each case. The first sensation is of intense beat felt in and within the head;

⁽a) Warren's Sweet Essence of Rennet, prepared at M'Master, Hodgson, and Co.'s Chemical Laboratories, Dublin,

then flashes of brilliant light appear in the eyes, like those flashes which are noticed when the closed eve is struck sharply. or when an electrical spark is passed through the body near the eyeball; with these flashes of light there are vehement sounds in the ears, like deafening music-such, we imagine, as persons experience when they are passing into insensibility under chloroform or nitrous oxide gas; lastly, the lower parts of the body, the legs especially, appear to have become excessively heavy, bennmbed, beweighted; and now, to the sense of the hanged, all is over, they remember no more.

It has been stated by some earlier anthors that, in instances of hanging where the patients have recovered, they have described an experience of sensations sensually pleasant. Tardieu has taken extreme pains to investigate into the truth of this assertion, and the conclusion he has arrived at is, that there is no ground for it. whatever, in fact. In a few hanged persons, natural acts which are commonly under the control of volition are performed involuntarily, such as the passing of faces and of urine, but even these occurrences are rare; and when, in men, there is emission of semen, the emission, Tardieu believes, takes place after insensibility, and during what he would consider the second stage towards death-the stage when the body is subjectively, but not objectively dead.

The period of conscious life after suspension by the neck is probably never extended beyond three minutes, and it may not extend beyond thirty seconds. If the cord press above the larynx, and the neck be not broken by the fall, the longer period of consciousness is maintained; if the cord press upon the traches, the shorter period is ensured. After the cessation of subjective life, or that knowledge of life which belongs to the person passing through the ordeal of death, there remains a period of subjective life, when, to the observer who stands by, there are signs of motion. These consist of convulsive movements of an irregular kind, more er less severe, and of continued action of the heart. The convulsive movements last, as a rule, a very short time; the action of the heart a long time. We gather from all the anthorities we can command, and from the experience of an eminent Surgeon to a county gaol in England, whe, for a great number of years, was officially present at executions on the scaffold, that the heart continues to struggle on for at least ten minutes after the suspension. But the action is not always the same : sometimes it is so perfect that, for several minutes, a pulse can be felt at the wrist; at other times the power of the left side is quickly paralysed, and the motion that is observed in the chest is due mainly to the contraction of the right auricle and ventricle. The auricle (ultima moriens), in truth, continues to act so steadily that, in few cases, we think, has it ceased to act when . the bodies of criminals, after the expiration of the usual time of suspension, are taken down. In one well-known case, to which Tardicu refers, the heart of a criminal was heard distinctly to beat one hour and a half after the supposed death. The beats were counted, and were found to number 80 in the minute; each beat distinct, and with slight impulse. On opening the thorax, the right auricle was discovered acting energetically and regularly, and so it continued to act for four hours after the time when the body was first suspended-the irritability remaining even to five hours.

With the cessation of the action of the heart, all ordinary indications of life are lost, and practically the body is quite dead; so that we may divide the process of death into three stages-(a) a stage of subjective conciousness, or semi-consciousness (partial stuper); (b) a stage of subjective death, but objective life; (c) a stage of objective general death. The first stage extends from thirty seconds to three minutes; the second, to ten minutes, or longer; the third, continuously until the occurrence of rigor mortis.

One observation we do not find noticed by Tardieu deserves to be added. It relates to the irritability of the muscles of the body generally. After the subsidence of the convulsions of

which we have spoken, all the muscles assume quiescence, except the heart. It is the fact, however, that they have not lost their irritability; they simply wait for stimulus, and, under galvanism or heat, they retain their power of contraction as long as the heart itself. In cases of death by hanging, when the temperature of the air is low (at or below freezing point), the muscles have been made to contract vigorously more than an hour after a body has been removed from the scaffold.

Care has been taken by Tardieu and others to determine how long, after suspension, a body may be considered as recoverable. In one case, a woman was resuscitated who had been suspended seven minutes; but this was an extreme case, and the general opinion seems to be that five minutes, as computed by Dr. Taylor, is the period within which, in cases where the spinal column is uninjured, and the death has been by asphyxia, the restoration of life is possible.

To the physiologist, the facts relating to death by hanging are of value in that they convey to his mind the analogies of death from other and distinct causes. In death by hanging, as in nearly every form of sudden death, the phenomena are the same. The nervous system first fails in those parts of it which minister to the conscious life; next it fails in those parts of it which supply the muscles of volitien, whereupon these muscles, separated from the controlling influence of nerve. are thrown into wanton convulsive movement, just as they are thrown into convulsion during hæmorrhage. A little longer, and the centre governing and supplying the semivoluntary respiratory muscular system ceases to play; and later still-relatively much later-the heart ceases, in given order of ceasation of its parts, left ventricle, left auricle, right ventricle, right auricle (ultima moriens).

The subjective symptoms during hanging are also allied closely to those of many other forms of death equally sudden, but apparently less violent. Whoever has inhaled nitrous oxide gas to absolute insensibility knows most of the symptoms endured by the hanged. The sense of stupor, the sense of noise, the sense of light in flashes, are fairly representative signs of both forms of insensibility; but two symptoms are described as connected with hanging which do not belong to other modes of death-viz., the sensations of heat in the head and of weight in the extremities.

To the politician who is interested in the question of capital punishment, the subject we have presented is in various ways of moment, whether he is for or against capital punishment. He may know, from what has been collected for him in scientific evidence, that the death, though violent, is not a death of torture; that unconsciousness is attained by hanging means as rapidly as it would be by the administration of chloroform; and that the convulsive struggles which in a few cases occur in those who are hanged, are not conscious struggles, but are the equivalents of the convulsive actions which so often como on during the administration of anæsthetic vapours. This is so far satisfactory; but there is a side of the subject which is less satisfactory. The evidence is clear that the period of actual death by hanging is much longer than is commonly supposed, and that, when the Lord Judge orders the condemned man to be hanged by his neck until he is dead-deaddead, his Lordship often orders to be done what is practically not done. It would be right, therefore, in all cases, however small the risk of failure in producing ultimate death may be, to insist that there shall be a post-mertem examination of the executed criminal, and that the Surgeon, on post-mortem evidence only, should swear to the fact of death before the coroner. The coroner's order for a post-mortem is, we believe, in this country, all that would be necessary to render the dread legal ceremony of taking a human life complete to the end.

We turn over the pages of Tardieu to find much more that is of moment to Medical jurists ; but we shall refer to him again. and shall rest now, content to have called attention to those parts of his work which have a direct bearing on the physiology of death, and on our national method of producing death, when the irrevocable penalty is presumed to be the proper penalty for the offences of the individual against the community and the State.

THE WEEK.

AT the meeting of the Committees of the Royal Colleges of Physicians and Surgeons and the deputation from the Society of Apothecaries, which took place on Friday last, we hear that it was moved and seconded by the Presidents of the two Royal Colleges, and carried unanimously, that a Board of Examiners for this division of the United Kingdom should be appointed by the three Corporations, to examine and license candidates desirous of practising in Medicine, Surgery, and midwifery, and that the candidates passed by this Board shall receive the Licence of the Royal College of Physicians, the Membership of the Royal College of Surgeons, and the Licence of the Society of Apothecaries, subject to the by-laws of each Corporation. It was also settled that a sub-committee, composed of three representatives from each Corporation, together with the Registrar of the Royal College of Physicians (Dr. Pitman), the Secretary of the Royal College of Surgeons (Mr. Trimmer), and the Clerk to the Society of Apothecaries (Mr. Upton), as assessors, should meet to draw up a scheme for carrying out this arrangement. The first meeting of the sub-committee was fixed for Friday, January 13. We hear that the sub-committee includes Sir James Alderson, the President of the Royal College of Physicians: Sir William Fergusson, the President of the Royal College of Surgeons; and Mr. Morley, the Master of the Society of Apothecaries. It is no over-estimate to say that the announcement we have now made embodies the most practical measure of reform which the Medical Profession in England has witnessed since the passing of the Apothecaries Act of 1815. It is the more welcome since it is a spontaneous movement, not forced on us by the Legislature or by the Government, but emanating from the Profession itself. It must not be forgotten that the first impetus was given in the direction of amalgamation by the recommendation of the General Medical Councila recommendation which was for a time lost sight of in the attempted legislation of last session. Greatly to the credit of the three English Corporations, they have determined to merge differences of opinion, and to unite in the formation of a National Board, which, although it is not a complete realisation of the one-portal system, is a considerable step in advance, and will establish, at least, uniformity in the education and examination of the great bulk of the Practitioners of England and Wales. We do not think it impossible that the Universities may before long be induced to join in the proposed scheme, and by agreeing to submit their candidates for Medical graduation to the examination of the new Board, establish a right to take part in the nomination of examiners or assessors. Such a course on the part of the Universities would fulfil in spirit and in letter the recommendation of the General Medical Council: it would establish the one-portal system as far as England and Wales are concerned, and seems to us in every respect a consummation devoutly to be wished by those who desire the consolidation of the Profession. But if the co-operation of the Universities cannot be obtained, or be indefinitely postponed, we shall not be the less glad to know that the great practical reform which was inaugurated on Friday last is to be carried out. There are no bodies in Europe which are better capable of instituting a thoroughly sound theoretical and practical examination for the testing of candidates for admission to the ranks of the Profession than the great Medical Corporations which have for long periods been engaged separately in the work, and it is to be hoped that the example they are setting may be followed by the Medical authorities of the other divisions of the kingdom.

We have before us two schemes of Medical legislation to be introduced during the ensuing session of Parliament. Both have their merits and demerits, and in both these seem tolerably equally balanced. One of these schemes emanates from the Royal College of Surgeons in Ireland, the other from the Reform Committee of the British Medical Association. Before proceeding to discuss them, however, we may express our opinion that there is a very faint chance of any Medical Bill passing both Houses of Parliament in the coming session. The state of Europe, the condition of the national defences, and our relations with foreign powers, fluctuations in public opinion, and the difficulties with which any Government under the present circumstances must contend, augur but little leisure, opportunity, or appetite on the part of our Legislature for minor matters of internal reform. We may be mistaken, but we shall be surprised if the present Government, or any one of its members, will, after the experience of last session. be inclined to give the necessary attention and time to introduce and pass a Medical Reform Bill. Of this we may be sure, that no Bill will pass without the direct support of Government: and that, even if that be obtained, any serious opposition-whether from any of the Medical authorities, or from the General Medical Council, or from any voluntary Medical Association -- must in a session crowded with important business be fatal to it. Having said thus much as to chances f success, we proceed to notice the proposed schemes.

The scheme of the Royal College of Surgeons of Ireland is, we are bound to admit, far less Utopian than some other schemes emanating from the sister island. In the first place, it does not advocate the well-nigh impossible provision of a single Board for the whole Kingdom, nor its necessary corollary, a peripatetic company of examiners. The Council of the Irish College recommend that an Examining Board, formed by representatives of the Medical authorities, " should be provided for each division of the United Kingdom, so as to guard against the delay and inconvenience likely to ensue from the formation of a single Board authorised to hold examinations in succession or rotation." The Council of the College, however, apparently under the-we should hope-mistaken idea that any imputation of inferiority might be cast upon either of the three national examinations, recommend that the General Medical Council "insist" upon "the presence of representatives from the Examining Boards of the two divisions of the Kingdom at the examinations of the third, who shall take an active part in the examinations conducted by such Board." It will be at once seen that this provision presupposes a very large expenditure of money, and an equally large expenditure of time on the part of certain members of the Examining Boards-such an expenditure as would effectually prevent men in leading practice undertaking the office. The Council of the Irish College are of opinion that the General Medical Council should be remodelled, so as to "provide for a more direct representation thereon of all registered Medical Practitioners." To direct representation of the Profession in the General Medical Council we are, as our readers know, on principle opposed; but of this hereafter. With many of the principles of a Medical Bill enunciated by the Irish College we thoroughly accord-for instance, that increased powers should be given to the General Medical Council to insist upon the union of the several Medical authorities in each division of the kingdom to form Examining Boards; that the powers of the Privy Council should be limited to those of a Court of Final Appeal, in case of hopeless disagreement between the Medical authorities or the members of the General Medical Council; and that the diploma of the conjoint Examining Board should be the sole qualification for registration. But the great mistake of the scheme is that it would still permit all the Medical authorities to grant any of the degrees, diplomas, or licences they already confer, to all persons, whether they have or have not obtained their licence from the National Examining Board, and the right to be registered as L.M.S.M .- Licentiate in Medicine, Surgery, and Midwifery. In other words, they open a direct door for illegal practice by unregistered persons, who may hold high Medical qualifications, and thus practically sweep away the one-portal system; and, secondly, the effect of the proposed Bill is really to add three more examinations to those which the seventeen Medical authorities have already instituted. This is a reductio ad absurdum which, in our minds, vitiates the whole of the (in some points) excellent scheme of the Irish College.

The Reform Committee of the British Medical Association is at least not to be charged with an excess of modesty. The Committee met at Birmingham on Tuesday, December 27, and as a first resolution decided-" To accept the responsibility which the withdrawal of the Medical Bill of the Government last session was declared by members of the Legislature to have thrown on the Association, and to prepare a Bill for the ensuing session of Parliament." Whatever individual members of the Legislature may have asserted in reference to the effect of the action taken by the British Medical Association, we can assure the Committee that they were not alone in their opposition to the Bill, nor are they alone responsible for its failure. The Bill, as it was received by the the Commons, was so utterly distasteful to all classes of the Profession and to the most influential of the Medical authorities, that it would assuredly have met opposition at every stage, and at that late period of the session it would have been impossible even for Mr. Gladstone's Government to have carried it. The Committee next resolved -"That the withdrawn Bill of the Government, with such modifications as the principles advocated by the Association demanded, should form the basis of the proposed Bill of the Association." We can have no objection to the Government Bill being taken as a basis of legislation, for in its original form it had many excellencies, and might have been easily made a most satisfactory measure. What the modifications are which the principles of the Association demand are contained in the following resolutions adopted by the Committee :-

" 3. That Clause 18 of the original Bill of the Government which was expunged in the House of Lords, should be restored. "4. That the General Medical Council should be made re

sentative of the whole body of the Profession, as well as of the Government, of the Universities, and of the Corporations.

"5. That the Council should, with this view, be constituted on the principle of containing representatives of the Universities and Corporations in the proportion of one-half of its number; nominees of the Government in the proportion of one-fourth; and representatives elected by the registered mem-bers of the Profession residing in the United Kingdom also in proportion of one-fourth of the Council.

"6. That the enactments of the Council so constituted

should, as regards preliminary and Medical education, be bind-ing on the Universities and Corporations.

7. That provision be made for rendering the Professional examinations practical."

The resolution which demands the restoration of Clause 18 of the Government Bill, as originally drawn, commands our hearty approval. It will be remembered that Clause 18 provided that the Medical authorities should not in future confer any of the qualifications mentioned in Schedule A to the Medical Act of 1858, except on persons who had obtained the licence to practise under the provisions of the Bill. In other words, it established in its entirety the one-portal system, and gave to the Bill its chief merit. Its omission rendered the Bill comparatively worthless; and if the Bill is to be made the basis of fresh attempts at Medical legislation, we entirely agree with the Committee of the British Medical Association that the restoration of that Clause is essential. The next resolution, if it be intended to imply that the whole of the Profession must be directly represented in the General Medical Council, is, we are convinced, a dangerous and impracticable one. Representation of the Profession through the Medical authorities to which they are affiliated we should welcome as a boon and real reform; but direct representation would be an apple of discord which we trust no British Minister would consent to throw amongst us. That it would be dangerous, we are certain, for the effect would be to introduce into the Council, not men who, hy steady, scientifie, and practical work, had raised themselves to the highest ranks of the Profession, but men whose pockets are deep enough to stand the large expenses of an election, and whose love of notoriety would impel them to undergo the worry and expense of a canvass. Besides, the direct representation of the Profession presupposes a machinery which does not exist. Returning officers, voting papers, clerks, and polling-places are not provided without money; and whence is the money to come? Is the Profession to be called upon to pay for its whistle, or is it supposed that Parliament will find the means? We should gladly see the General Medical Council made a more truly representative body, though we doubt very much whether any representation would give us better men than now sit upon it. But this chimera of direct representation will surely turn out a delusion and a snare.

The Profession in England will watch with great interest the efforts made by the Italian Government to drain the Pontine marshes and the Campagna. If Rome is again to be the capital of Italy, the malaria of the Agro-Romano must be got rid of. The Italian Government see this clearly, and they have constituted a commission of engineers and men of science, to inquire into the practicability of effecting it. The experiment is a most interesting one from a Medical point of view. In consequence of the late rains, it seems that all Rome, except the Seven Hills, is at present under a flood.

The deaths in the Small-pox Hospital, at Hampstead, have raised the mortality of that hitherto exceptionally healthy district. At the last meeting of the Hampstead vestry, it was reported by Mr. Lord, the Medical Officer of Health, that in the previous four weeks there had been seventy-nine deaths and seventy-seven births. Twenty-five deaths had occurred at the Small-pox Hospital, several of the patients having died within twenty-four hours after admission.

The last weekly return of the Registrar-General shows that the deaths from small-pox have decreased. The last return gives 79 deaths from small-pox and 112 deaths from scarlatina. The previous return showed 110 deaths from each of these diseases. The diminution in the mortality from small-pox is 31. The deaths, however, are still as numerous in the Eastern districts. In Bethnal-green there were 12 deaths, and 15 in Shoreditch. One case in Mile-end Town, Eastern District, was that of a Surgeon's daughter, aged 7, who had been vaccinated. She had acquired the disease through removal " into a house in which small-pox had lately been, without its being disinfected. This the mother learnt when too late."

We hear that Dr. Powell has been recommended by the Committee of Selection at the Charing-cross Hospital for the vacant Assistant-Physiciancy, and Messrs. Fairlie Clarke, and Bond for the vacant Assistant-Surgeoncy. The choice for the latter office will rest now with the Governors.

We understand that Mr. Frederick Churchill will not be a candidate at the coming election for Assistant-Surgeon to St. Thomas's Hospital. There are already several candidates in the field; amongst them are Mr. Wagstaffe, Dr. McCormac Mr. West, of Birmingham, and probably Mr. Barwell.

SMALL-POX.

ONE HUNDRED AND TEN deaths from small-pox! This is the statement made last week hut one by the Registrar-General as to the condition of affairs in London. Assuming that the fatality of small-pox is about 7 per cent. in a vaccinated population (probably it is higher than this in London), it seems that in the same period there occurred about 1500 new cases per week; and assuming, further, that the disease has an average duration of three weeks only in which it spreads abroad its contagious principle, we may consider that, in the course of the week, there might have been found in London between 4000 and 5000 cases of small-pox in various stages and degrees of severity. And, as usual, notwithstanding our Vaccination Acts; notwithstanding that there exists a Board specially entrusted with the duty of providing Hospital accommodation for cases of small-pox; notwithstanding the very ample powers given to vestries; and notwithstanding full warning that an epidemic was impending, when it fell upon London it found the metropolis unprepared. The Hospitals are all full and overflowing ; cases are refused, and have to be treated as best they may be in wretched dwellings where isolation of the sick is an impossibility; infants abound who are unvaccinated, and no steps are taken to promote the protection of adults by re-vaccination; Medical Officers of Health are paralysed, for the very means of isolation and disinfection are denied them, and they can do little more than offer advice and distribute handbills; and so this disgusting and dangerous disease goes on spreading, and, what with official apathy, parochial parsimony, and conflicting jurisdiction as between vestries who have charge of one class of preventive measures and guardians who have charge of another, it is likely to go on spreading. And, what is almost worse than anything else, we hear complaints of a deficient supply of vaccine lymph for re-vaccination. One miserable tale has come to our ears, of a public parochial station at Islington, at which, last Saturday, a number of children came to be vaccinated, and there was no subject to vaccinate them from. They went away unvaccinated. Surely, if ever there were a case demanding an official inquiry this is one, and the guardians of the poor should be called upon to explain how it happened. So much for local efficiency!

But people are asking, moreover, what the Privy Council is about? and why, in the presence of an epidemic which is not confined to London, the Diseases Prevention Act is not put in force? and why the nuisance, authorities are not directed to make the special provisions for the arrest of the plague of small-pox which they were directed to make for the arrest of the plague of cholera? Is it that they regard the Compulsory Vaccination Act as administered by local boards all-sufficient for the purpose? Is it that they are afraid of producing a panie? or is it that small-pox is a less contagious disease than cholera? For the life of us we cannot make out why this very obvious step is not taken. Everybody knows that small-pox is epidemic to an extent which only finds its parallel seven years back, and it would be a relief to the public mind to know that all possible means of cheeking it were being adopted. All that the Medical Department of the Privy Council has done is to issue a memorandum addressed to the guardians of the poor, calling upon them to appoint inspectors of vaccination where they have not yet appointed them, and to appoint additional temporary inspectors (non-Medical) where one is insufficient; to direct inspection of vaccination, principally in localities chiefly infected; to recommend the general adoption of revaccination; and to provide for daily vaccination at the residence of the vaccinators in cases of emergency. All this is very well so far as it goes, but we contend that it is quite insufficient to meet the present requirements. If small-pox is to be arrested, much more energetic measures are necessary, and they should be adopted speedily. The memorandum would have been in place if it had been issued six weeks ago; but now we are in the midst of an epidemic, and, besides the slow process of vaccinating or revaccinating a population, we require means of isolating the sick and of providing for the lodging of families while their rooms, clothing, etc., are being disinfected, by the establishment of houses of temporary refuge. The lack of facilities for carrying out these measures might be supplied, if the Privy Council would anthorise the vestrics in London and the guardians in the provinces to put in force the provisions of the Diseases Prevention Act.

THE DOMEARDMENT OF PARIS.

A DESPATCH which left Paris on the night of the 10th inst. by the balloon "Gambetta," and was received at Bordeaux on the 11th inst., contains an account of the damage effected within the city by the bombardment. It is stated that 2000 balls have fallen into the interior of the city, and many women and children were killed and wounded. The Hospice de la Pitié was struck, and the wonnded from one ward had to be removed to the cellars. The Val de Grace was also bombarded, and the shells had struck many other Hospitals; also schools, museums, and churches. It is complained that the enemy seemed to select Hospitals for his fire, thus outraging all the rules of war and humanity. If reports be true, however, as to the French themselves having been not very particular in the use, or rather the abuse, of the "red-cross" flag, and having collected together in buildings over which it waved, as indicating that they were solely intended for the reception of the wounded, arms and munitions of war in enormous quantities, we can hardly expect that the Prussians, who through their spies must have been kept well informed, should take much pains to divert their fire from Hospitals, real or ostensible. But from the enormous distance -between six and seven miles-which the shells falling into the city had to traverse, it is probable that they were merely stray shots, originally intended for the forts, and that direct aim could not have been taken. The concentration of horrors now devastating Paris-famine, cold, sickness, and the fire of the enemy-must soon bring matters to an end so far as the city itself is concerned. It is not expected, however, that the city will fall without another sortie, in which, in the words of one of the correspondents with the Crown Prince's army, "blood will flow not in drops but in gushes."

MORTALITY OF PARIS UNDER SIEGE.

From the correspondent of the Daily News, within the walls of Paris, we have the Paris death-list for the last week of the year 1870, viz., that ending 31st December. It is composed as follows :- Small-pox, 454; scarlatina, 6; measles, 19; typhoid fever, 250; erysipelas, 10; bronchitis, 268; pneumonia, 201; diarrhœa, 98; dysentery, 51; diphtheria, 12; croup, 16; puerperal diseases, 8; other causes, 1827; total, 3280. It will be seen that diseases of the alimentary canal do not figure highly in the above computation; cold is the chief instrument of evil. The total amount is alarmingly heavy, if not unparalleled; it shows an increase of no less than 560 deaths over the lists of the two previous weeks. Small-pox, typhoid fever, bronchitis, and pneumonia are each increased in their incidence. It should be observed that these weekly bills of mortality do not include or display the whole number of deaths which occur within the walls of Paris, the actual population of which city is now computed at more than two millions-2,005,709 souls. This is ascertained beyond a doubt by the system of rations at present in operation. Such a calculation, however, does not include the army and Mobiles, or war battalions of the National Guard. Moreover, the weekly bills take no account of Hospitals or institutions. The public Hospitals have their separate registration quarterly. We know, besides, nothing of the mortality occurring in the military Hospitals, ambulances, and other institutions. Considering that Hospital fever is raging, and the mortality of the Surgical cases extreme, the total mortality of Paris during the last week of the year caunot be estimated at less than 4000 for the two millions of inhabitants aforesaid. This is fearful! Such a death-rate sustained through the year would give 100 deaths per 1000, or one in ten. Let us compare this with the ordinary death-rate in England of 20 per 1000, which in some favoured places is as low as 17. As said before, cold is the great present minister of the king of terrors. According to a paper recently read at the Academy of Sciences, only on nine days of December has the temperature been above the freezing-point of water.

The average was 1.07° Centigrade, more than 2° below freezing by Fahrenheit's scale. In the fifty years from 1816 to 1866, the average of December was really 38° Fahrenheit, instead of 30° as now. The severity of the present season was forecast, as it would seem, some ten years since, by a certain M. Renou, in a paper to be found in the Annals of the Meteorological Society of France, vol. v., January, 1861. It is entitled "On the Periodicity of Cold." he shows that every forty years there comes a group of cold winters, some five or six in number, of which a central one is the bitterest of all. In such sort there was a series which grouped themselves round the celebrated winter of 1709, a year of much disaster, as well as of strong misery to France. Then, again, there was a series of eight severe winters to be grouped round the year 1748. Next comes the hard winter of 1789-90, with its attendant group-a winter not a little influential on the revolution. After which, we find a series of bad winters, having their central frost in the season of 1829-30. M. Renou's researches go as far back as the year 1400, and it is from such data he has forecast the intensity of the present cold. After a dry summer, in which the rivers Seine and Marne, by which wood for fuel is generally brought in, were kept exceptionally low, thus delaying very much its transit, and lowering the supply, nothing could be more disadvantageous-nay, disastrous-than such a winter.

DR. ACLAND'S LECTURES ON HOSPITALS AND HYGIENE TO THE

DB. ACLAND, F.R.S., on Friday evening last, at the request of a number of the artizans employed in the construction of the new Fever Ward in the Radeliffe Infirmary, Oxford, delivered a lecture, open to the public, on Hospitals and their management, and the general care of the public health. A lecture from such a man, on such a subject, is nothing less than a public benefit. The example set by Dr. Acland is well worthy of imitation by men whose position and attainments entitle them to the public attention, and we are glad to learn that Dr. Acland's audience, composed chiefly of the workingclasses and their families, was large and attentive, and appeared fully to appreciate the value of the instruction which he gave them. Dr. Acland impressed upon his hearers that the primary essentials of life and health, personal and public, were three only-good air, water, and food in sufficient quantity; and that elothing, fire, and habitations were secondary and accidental requirements-which statement, although as true of man in his most civilised state as when he first coursed through forests primeval, probably fell as a novelty on the cars of those to whom it was addressed. The remarks upon the inutility of the use of strong drugs while people neglect to secure the requirements of healthy life, were most opportune, and we trust they may not have fallen as the seed by the wayside, but may bear fruit a hundred-fold. His reply to the question, What is sickness? "that if he were a worse Physician he might answer more readily," must have appeared rather paradoxical to a non-professional audience, but his illustration of the analogy between the derangements to which a watch and the human body are liable, and how the delicate machinery of our frame might be thrown out of gear without fractures or any alterations in the structure, was particularly adapted to attract the attention and elicit the assent of intelligent artizans. He refuted the error that a Hospital in which there was a large mortality could not be well managed-whereas the very contrary might be the case; for when a Hospital had a good repute it was then that the very sick would wish to go to it. This was very judiciously expressed to a class of persons among whom objections to apply for Hospital relief are often based upon such erroneous grounds. In his description of several of the most remarkable of modern Hospitals, Dr. Acland pronounced the new St. Thomas's to be a triumph of sanitary engineering,

but hinted that the ontlay in its proportions and appliances might have been less, without detriment to its efficiency; and added that there is nothing more vexatious, and more likely to jeopardise the provision of what was an absolute and urgent need, than excessive demands of amsteurs in Hospital construcstruction or sanitary affairs. The advantages presented by Hospitals as a means of instruction of women in the art of nursing the sick, and of cooking for them as well as for the healthy, are not sufficiently appreciated by the public generally. Dr. Acland thinks that, without actually becoming Professional nurses, women of the labouring and artizan classes might derive immense benefit, both for themselves and others, by undergoing instruction in the care and management of the sick. He was glad to inform his hearers that he had every reason to believe that a Cottage Hospital would shortly be built in Oxford by a charitable person. Such a building, with two wards, each containing three persons, could be constructed, with all complete arrangements, for £500, and would afford a means of caring for the sick on the best possible principles.

NAVAL ASSISTANT-SUBGEONS.

THE want of Assistant-Surgeons for the navy has been more or less felt through the last twenty years. Since 1866 therehas been less urgency until the last half-year, when the Navy List has undergone great reduction, by means that have treated the Medical officers with less liberality than the combatants; this has renewed their dissatisfaction. The late competitive examinations have not been successful, and at present there is less prospect of candidates than ever. While men are dropping off rapidly from the service, it must be of interest to the Admiralty to ascertain what ought to be done to stop the gap. At this moment, Dr. F. J. Brown, of eminence in the Profession, onco a naval officer, who retains the confidence of his former brethren in a remarkable degree, has produced an able pamphlet on the subject. He advocates the abolition of the title of Assistant-Surgeon, and the acquisition of Staff Surgeon's rank after fifteen years' service, as measures required to place Medical officers in their due social status on board ship. His facts and arguments seem to be precise and clear, but they must undergo judgment by those who may look less favourably on Medical wants than we can do. The more tangible points concern emoluments, where we notice that Dr. Brown scarcely advances beyond what he sought in 1865, but as concerns "retired pay" after long service, he requires that the Medical officers shall not be prejudiced relatively to others, as was done in the scheme for naval promotion and retirement of last year. We can only give our opinion that whatever drops from Dr. Brown's pen on this subject is worthy of credit, and we advise all inquirers about naval Medical affairs to read his pamphlet.

THE DURATION OF PHTHISIS.

An exceedingly interesting paper was read before the Royal Medical and Chirurgical Society on Tuesday evening by Dr. C. T. Williams, being an analysis of 1000 cases of phthisis, from records of private practice, kept by his father, Dr. C. J. B. Williams. The cases occurred in persons in the middle and upper classes of society, and the results were in striking contrast with those occurring in Hospital practice. All caseswere excluded which had not been under observation for a twelvemonth, so that acute tuberculosis was excluded from the list. The results showed that phthisis is essentially a chronic disease, lasting on an average many years, and that this duration was not materially influenced by the mode of origin, whether by plenrisy, plenro-pneumonia, or tuberele; nor did it seem to be so by heredity. On the other hand, age seemed to exercise a material influence-the older the patient attacked, the more chronic became the complaint. The paper alsoshowed that chronic bronchitis might end in true phthisis,

taking the worl in its widest sense, as signifying the deposit and alcerative removal of cheesy matter, whatever might be its origin, with the constitutional symptoms accompanying that change. The most important lessen to be learnt from the paper was the great importance and the valuable influence of care in maintaining life, even after phthisical disease had decidedly made its appearance and had considerably advanced.

WHAT LADY-DOCTORS MAY COME TO!

THE advocates of Medical education for women have but slight reason for gratitude to their Medical ally who writes to a daily contemporary, urging the necessity for a hundred lady-Doctors being spread through this country with a sufficient amount of education to enable them in midwifery cases to apply instruments, chloroform, and electricity, and to do what is necessary under the Contagious Diseases Act; and a hundred more to go to outlying hamlets in Australia and New Zealand that would not support a regular Doctor of the Ediaburgh regulationpattern, but where a lady-Doctor, half apothecary, would be accessible. If no more attractive career than this can be laid ont for female Practitioners of Medicine, the lady Medical students, about whom there was such a turmoil the other day in Edinburgh, ought for the remainder of their days to bless the majority of four who decided against their admission to the classes of the Royal Infirmary in that city.

MEMORIAL TO THE LATE MAURICE H. COLLIS, M.R., SUEGEON TO THE MEATH HOSPITAL.

Wa are pleased to learn that the many friends of this distinguished and regretted Surgeon are about to present to the Meath Hospital a memorial bust of him, to be placed in the entrance-hall of the Institution, where he laboured for many years, and in which he received his death-wound. A committee has been formed for the purpose of receiving subscriptions, etc., for the above object. The members of the committee are— George H. Porter, Esq., M.D., Surgeon-in-Ordinary to the Queen in Ireland; Philip C. Smyly, Esq., M.D.; James H. Wharton, Esq., M.B., coll-agues of the deceased; Yeo B. Owens, M.D., J.P.; and Edward B. Stanley, Secretary to Meath Hospital.

BEAR'S-FLESH AT BOMAN DINNERS.

The bear was eaten by the Romans, but it is clear that it was considered a rarity, and not relished by everybody. In the famous narrative which Petronius gives of the dinner at Trimalchio's, he represents a man who had dined at another house dropping in to dessert, and describing the feast he had had at the louse he had just left. "We had," he said," a joint of bear, which my wife Schnilla was reak enough to taste, and almost romited up her gizzard. On the other hand, I ate more than a pound of it, for it satsed like boartiedf; and for my part, I say, that if bear cats man, man has a much greater right to eat bear."

FROM ARROAD.—BELLABONNA IN SMALL-FOX—PROFESSOR PIRIOOFF ON THE WOUNDED AT THE WAR — PROFESSOR BILLROTH'S LETTERS FROM THE SEAT OF WAR.

M. Barnium describes the advantages to be derived from belladoman in the treatment of variola in terms of such unmixed culogy, that we should have paid no attention to the statement had it not been placed in a prominent part of the Lyon Medical for December 18, and bearing his signature, although this last is not rendered more intelligible by having subjoined to it the word abstrates in a parentheme. However, his statement, trustworthy or not, is that, thrown in the midds of an epidemio outbreak of variola, he remembered some of the wonders recorded to have been done by small doses of belladomna in acatalatins; and, if in one examthere, hyp. not in another? Accordingly, he administered the remedy right and left, in all stages and at all ages, and had the satisfaction of finding that, while other Practitioners were having their heavy percentages in mortality and disfiguration, not a single one of his patients was lost; the magic drops procuring abortion from the disease on the very first day, and speedy restoration to pristine health. "Do he naturally exclaims, "what I am saying for not take. phrases and vain words; they are figures easy of verification " - the means of which, however, he has not yet supplied. One of the most remarkable circumstances is that one in possession of so excellent and so simple a remedy for a disease which is now devastating so many localities of his unhappy country, hesitated whether he should at once make it public, "in view of the general interest, or wait for some other cases more and more conclusive"-if such a thing were possible. Happily, this ethical question was settled by a little Professional rivalry, for, learning from a newspaper that a Dr. Severns had just discovered that belladonna is an infallible preservative against epidemic variola, his course at once became clear, and the article we are commenting on was the immediate result.

As some of our readers may be disposed to pay more attention to M. Barbier's statements than we think they deserve, we subjoin the formulæ which he recommends. Belladonna is, he says, alike a preventive, an abortive, and a curative-and curative, too, at all periods of the disease. "At whatever moment the Practitioner is called in he may arrest the progress of the disease, just as the alarmbell arrests the course of a railway train." As a curative agent, from one to six centigrammes of the extract of belladonna, or from eight to thirty-two grammes of the syrup of the French codex, should be given during the twenty-four hours, the remedy having to be continued for three or four, or at most, five days. This is for an adult, and the doses for other ages must be regulated accordingly. As a prophylactie, a formula is borrowed from an old friend, somewhat out of fashion just now-Hahnemann-viz., extract of depurated juice of belladonna, one decigramme; water, thirty grammes. Eight drops per diem, in four doses, for a child of 10 years of age. This is, at least, familiar ground, whatever we may think of its solidity. For those who wish to be getting on a little faster, there is Godelle's formula-Powder of belladonna root, fifteen centigrammes; sugar, three grammes; divide into sixty doses; two or three of these to be given daily to a child a year old, sextupling them for adults. All persons concerned with the sick, and all who are confined in ships, schools, prisons, or blockaded towns, are enjoined to avail themsolves of this agent. M. Barbier calls upon his confrires in general to give the means a fair trial, and guarantees an amount of success that will form hereafter a great feature in the progress of science.

On his recent return from the seat of war, Professor Pirigoff communicated to the Petersburg Society for Aid to the Sick and Wounded, who had sent him there, his general impressions. The activity exhibited by volunteer societies was, he observes, truly enormous; but, nevertheless, there still was a woful lack of Medical aid on the battle-field, as may be judged from the fact that the wounded at Gravelotte, amounting to about 10,000 men, had only six Surgeons for their aid. In the Prussian army about forty Surgeons had been killed, so sad a loss being incurred because the Medical officers are obliged to attend the wounded when under fire. Any special attention can only bo paid to the wounded in Hospitals, which were often placed at great distances from the field of battle, and the transport to which was accomplished either by common country carts or luggage trains. At a later period of the war, however, special and convenient trains were organised for this purpose. For patients who were destined for the Provincial Reserve Hospitals, what were called "Etappen-Lazareths" were arranged, having in view the furnishing the wounded with a night's rest in

a comfortable position, and the administration of suitable restoratives. All the patients whose condition admitted of their being moved were, after their twenty-four hours' delay, forwarded by the next military train to their destinations, having a suitable attendant with each train. Counting the sheds (barracken), there existed thirty-three Reserve Lazareths, furnishing 4800 beds, besides three Peace Lazareths. In the erection of all Reserve Lazaretha, the rule has been observed of allowing not less than 1200 cubic feet for each bed. Each Lazareth has its own equipment of surgical instruments and appliances. Professor Pirigoff remarks, as we have already found Professor Billroth doing, that he never among the wounded met with a patient wounded by the balls of the mitrailleuse; while among the dead many bodies were found perforated with twenty-five or more of these missiles. Wounds of the head, too, were of very infrequent occurrence. He is of opinion, with respect to the new weapons, that although the numbers sacrificed are larger, yet the wounds produced are of a slighter character than used to be the case

From Weissenberg, to which place he first repaired on the declaration of war, Professor Billroth passed to Mannheim, where he was located as General-Inspector of the Lazareths established near it, and at once had an immense amount of work thrown on his hands. At Weissenberg there had prevailed great concord among all persons who concerned themselves with tending the sick, so that no difference whatever prevailed between the Johanniters and the members of the different aid societies. When he came to Mannheim, therefore, he was much surprised at finding great irritation prevailing against the Johanniters. Reports had already reached him of the mischief which occurred from the accumulation of unemployed persons at Nancy belonging to the Johanniter and the volunteer societies, which, instead of co-operating with, were intriguing against each other; and a third element was added to the confusion by the military Surgeons and the Etappen commanders. All persons who are not required for the mechanical duties of transport and care of the wounded should be peremptorily ordered backwards or forwards, and the war-loafing Johanniters, delegates, Doctors, assistants, and volunteer nurses, whether of high or low degree, should have been ordered away by the Johanniter commander, in place of being, as was sometimes the case, protected by him. A too stern commander, with military force in the background, in this point of view, would have proved far preferable to no command at all, or one that was too lax. On their arrival at Mannheim, the Johanniters at first did not sufficiently take into account the excellent arrangements that had been made at great sacrifice, and were either ignorant or careless of any of the peculiarities of the North Germans, assuming, on the part of the King of Prussia, control over all volunteer societies, and placing themselves in opposition to the conditions they found in aristones

Professor Billroth, himself a North German, interrupts his narration to apostrophise the war and the advantages that are to accrue from it. He says-

" Certainly the wounded are to be pitied, and still more are those to be commiserated in whose circles they spread joy and love, and for whose wants they provided with their labour. You know that I am one of those Surgeons who, in the most doubtful of cases, make the extremest efforts to do all that is possible to secure recovery; and this, in my eyes, is the strongest proof I can furnish to you, whether theoretical or practical, of the estimation in which I hold the life of an individual, even should he be a criminal. But when the development of our great German family comes into question, as in this war, then do I think we should tear ourselves away from the humanitarian bewilderment amidst which soft-hearted molluscons natures so ownigerment amoust when sort-neared moduseous natures so ensily thrive fater many years of peace. In face of the destiny of our great race, all tender sensibility for well-loved personal-lies must retreat to the back-ground. Everyone, idol though he be in his own large or small circle, may then find out how superfluous he is among the whole; for that no man is indiapensable, and that the world continues its calm progress over all their bodies, is, as I see more and more plainly every year, only too true. Trivial as it is, however, therein lies the surety of a prolonged national life, and, above all, of an abundant mental activity and labour. Only in the infancy and old age of a people can individuals exercise extraordinary influence on the fate of a State.

(To be continued.)

REMINISCENCES OF "AN OLD GUY'S MAN."

No. II .- JOHN MORGAN.

MR. JOHN MORGAN was the second son of Mr. William Morgan. who, for more than fifty years, was the actuary of the Old Equitable Life Assurance Office, close to Blackfriars-bridge. Mr. William Morgan began life as a Medical student, and came from Glamorganshire to London, as he told me, with sixpence in his pocket and a "club-foot." He was nephew to the celebrated Dr. Price, whose mathematical talents were well known, and, from his calculations on the value of lives, was solicited to found a life assurance office. Other engagements interfered with this project, and therefore Dr. Price recommended his nephew, Mr. Morgan, to apply himself to mathematics, and actually taught him the multiplication table. From that time Mr. Morgan continued with his uncle, and became one of the most eminent authorities in his department as actuary.

From childhood, Mr. John Morgan showed an intense interest in natural history, and began to skin and stuff birds and small animals almost as early as he could use a knife and his fingers. His father was an excellent carpenter, and skilful in the use of the lathe, and taught all his sons to use their eyes and fingers in similar employments. I believe that early education of the hands had a great effect in rendering Mr. John Morgan so beautifully neat, steady, and dexterous an operator and manipulator. He was patient and thoughtful an operator and manipulator. He was patient and thoughtful in watching the habits of all living creatures that camo under his notice; and it was remembered against him for many years, as a joke, that when very young he was taken into his mother's bedroom, soon after a confinement, to be reproved for misching and on coming out he remarked, "How savage she is now she has got a little one." thus proving his keen notice of one habit of the female animal! In course of years Mr. John Morgan made a nearly perfect collection of stuffed "British birds," many of which were in their transition plumage, at that time a puzzling circumstance to naturalists. Among these, the "gulls" were least known. He was frequently of service, freely rendered, to the late Mr. W. Yarrell, during his researches for the materials of his well known and beautifully illustrated "British Birda." When Mr. J. Morgan became one of the Surgeons to Gny's Hospital, he felt constrained to part with his favourite collection of birds, saying "he must either be a showman or a Surgeon, and suspected that the latter would pay the best.

Mr. John Morgan was apprenticed to Sir Astley Coop with Tyrrell, Key, Travers, and others who afterwards did honour to the school. He lectured on Anatomy and Surgery, and in my time established a ward in Gny's Hospital entirely devoted to diseases of the eye. At that time he was working out many facts in physiology and comparative anatomy, using the microscope more than was prudent, which caused a violent attack of iritis. On recovery, Mr. Morgan continued his researches in comparative anatomy, in conjunction with Mr. Thomas Bell. He thought much about the possibility of curing tetanus and hydrophobia, and instituted some very interesting experiments, in conjunction with Dr. Addison and Dr. Hodgkin, as to the effects of some of the most powerful Indian poisons, hoping by their means to stay the convulsive spasms which characterise the two above-named diseases. Many of these experiments originated with Mr. Morgan-as I have reason to know, from having been permitted to witness them. His neat, steady dissection and manipulation, causing LIB near, secary dissection and manipulation, causing the least possible injury to the neighboring parts, were of importance to the success of such researches. The results were published in the joint names of "Morgan and Addisson on Poisons." As an operator, I think be excelled all his collesgues. His amputations were most masterly, He was the first to use the metal sutures for closing his flap amputation sengually and lade for atthe bases would stalked. amputation especially, and also for other large wounds, using

for that purpose a soft, ductile, fine iron wire. This method, I think, went ont of nee at Guy's after Mr. Morgan's death, to be again brought into extensive use, with the substitution only of fine silver wire. He also paid much attention to the cure of venereal diseases, and, at the time Carmichael's interesting book venereal assesses, and, at the time Carmichae's interesting book was stirreding much attention, adopted the theory of the dif-"just least the gume." in the use of mercury, never wishing to go further than that slight symptom of the specific effects of the remedy on the constitution. In the phagedenic slough-ing forms of sores, he made it a point of treatment, and aught us, that opium internally, and strong nitric acid externally, to the sores were our sheet anchors-mercury never, until the sores had assumed a more healthy appearance, and then only solves also assumed a more nearity appearance, and then only when they showed a disposition to become sluggish in healing. At one time, I think, a book was contemplated on the subject, but the appearance of Carmichael's volume and Bacot's prac-tical treatise may have induced Mr. Morgan to relinquish the design. I never knew him perform an operation without much, and often very anxious, thought-never for show, never with-

and often very anxious, thougat—never for show, never and out absolute necessity and a hope of success. When I knew him as an oculist, he used to place his patients in a large high-backed chair, and sit before them at a convenient height, and in this (to me) very inconvenient position, he could trust to his hand and eye to perform section of the cornea; and this was done when we had no chloroform, and must follow the retreating cornea as it dashed away from the point of the knife. He was ambidexter to a great degree.

I think Mr. Morgan was the first in modern days to attempt the removal of a diseased ovary, after Dr. Blundell had successfully removed the whole uterus. Mr. Morgan's operation was not undertaken without much previous thought and trouble. He frequently visited and witnessed the veterinary Surgeons and, so to speak, the ompiric operations on beasts of different ages, before he ventured to operate on the case which he hoped to benefit, but the patient died, and so ended for a long time the attempt to relieve women of ovarian tumours in a way which now astonishes us, and which would have been scouted as absurdly untrue and impossible forty years ago.

Mr. Morgan's dissection of, and investigations into, the Mr. Morgan's dissection of, and investigations find, the anatomy and physiology of the reproductive organs of the kangaroo have not yet been surpassed. They are recorded, and beautifully illustrated, in one of the volumes of the Linnean Transactions. He kept female kangaroos for months in his back yard in Broad-stret-buildings, taming them, so as to be able daily to examine them, by the hand put into the pouch, to find out when, or how, the little immuture creature came to hang attached, as if organically, to the first-used nipple; but, I believe, he never succeeded in making that part of the history quite clear. His dissections of the mammary organs were masterly in a very high degree.

Mr. Morgan was one of the first, and certainly one of the most energetic, originators of the now fashionable Zoological Gardens in the Regent's-park. He published a small volume of lectures on diseases of the eye, for the use of his pupils, and on accessive our unscases of the eye, for the use of his pupils, and this book was fully illustrated by very characteristic drawings. The diagrams, of large size, which illustrated his lectures, were mostly sketched by himself, and coloured by Canton, the off our Hamiltonian.

then of Guy's Hospital.

I have already mentioned that Mr. T. Bell, whose name has for years been familiar as one of the most distinguished writers on various subjects of natural history, was associated with Mr. on various subjects or natural instory, was associated with Ar-Morgan as a friend and fellow-inquirer. I do not think it possible to express with more truth and feeling than this friend has done, in a recent letter to me, the esteem in which those who knew Mr. Morgan best held (and, after many years of separa-

tion by death, still hold) the memory of his character. Professor Bell writes—and I need make no apology for thus giving his sentiments—"No one had greater opportunities of judging of his (Mr. Morgan's) merits than I had. He was (and I say this with the greatest confidence) the most philo-sophical and thoughtful Surgeon at that time attached to 'our school.' His treatment of disease, the necessity, or the con-His treatment of disease, the necessity, or the contrary, of an operation in any particular case, were subjects on which he invariably devoted much thoughtful consideration; for no man was more entirely free from all taint of empiricism or more original in judgment. The work in which he and I were most closely associated was, of course, that of comparative anntomy, in which we jointly laboured for a considerable period, our manipulations being almost wholly conducted in my own dissecting-room. His contributions to physiological and anatomical science, with reference to comparative anatomy in particular, were all marked by the thoughtfulness and simple truth which so entirely characterised his mind. As an operating Surgeon, he

was certainly unequalled in my time—for here, also, the same characteristic thoughtfulness was as conspicuous as in his scientific studies. I need not speak to you of his sincerity and warmth, and unchangeableness in friendship, and his affectionate heart. Those qualities were unsurpassed in anyone ance-avenate near. I nose qualities were unsurpassed in anyone I have ever known, and no one can speak with greater confidence and authority on this point than I can. Our friendship was most intimate for many years, and never for one moment darkened by a cloud.

Mr. Morgan's health was never very strong. He suffered during most part of his life from what were called bilious

During the time that Dr. Bright, with the assistance of Dr. Addison, and, though last not least, with the assistance of Mr. Morgan's other most intimate and trusted friend, Dr. Hodgkin, whose indefatigable industry and patient investigations have never, to my mind, been properly acknowledged—I repeat, during the time Bright was making out the disease, now called after his name, and watching its symptoms, Mr. Morgan was marking the approach of the same symptoms in his own body. With the courage natural to him, he said little or nothing about it, till one day he found himself on the floor of his consulting-room; and when he came to himself (as I have been informed) he went to his solicitor and told him to make his will while he stayed there, and could sign it—knowing only too well, from the course of that disease, that such an attack might recur. Mr. Morgan left a family, none of whom, he told me, should ever enter our Profession; but two sons have done so since their father's death. One of them I know to be still living: may he "do honour to an honoured name.

Mr. John Morgan's eldest son succeeds his nucle and grand-father in the old "Equitable," where it is to be hoped he may be as successful and beloved as they were before him.

HISTORY OF THE FIRST FRENCH VOLUN-TEER AMBULANCE.

By ONE OF THE SURGEONS, Now prisoner of War at Versailles.

(Continued from page 23.)

THE clock just struck eight, and the battle was still continuiug, when we arrived at the château of Borny, about one mile in the rear of the battle-field, there to establish our ambulance. We already found the yard of the castlo filled with wounded, crying for water and surgical aid. The engagement, though lasting but four and a half hours, had been quite severe; scarcely any territory had been lost or gained by either party. The third corps and the Imperial guard alone were on the field, and the latter troops were even held in reserve, so that the losses had fallen solely upon the abovementioned corps. The rest of the army was, and had been for the last twenty-four hours, in full retreat, trying to form a junction with MacMahon, by way of Gravelotte and the north-west. It was to check this retreat that the Germans attacked Bazaine's rear-guard, and hence the battle of Borny.

I am not now prepared to give any particulars of the wounded which fell into our hands. The number cared for by wounded which fell into our names. Inc number cared for by us that night amounted to between 450 and 500. It was a busy scene—surgeous, priests, and peasants all assisting. We immediately took charge of the church, of the deserted houses, and the barns of the little village to shelter our wounded as soon as they had received a first dressing. The trumpets had sounded "victory" all along our lines, and we, the nninitiated, were thinking "all was well," when suddenly, the minitiated, were thinking "all was well," when suddenly, about one o'clock in the morning, we received orders to exacuate the village as soon as possible, and transport our wounded to Mort; the army was in full red were the words of the second of the

wommed en rone; nome out the dead had been left centud.

I must state that upon our first arrival in Metz from Nancy,
quarters had been assigned to us in the Caserne du Génie,
a large building then empty, forming the three sides of a quadri.

lateral, with a vast court, and provided with 1200 beds. M. Lefort ordered our wounded to be taken there; but before twenty-four hours had elapsed every bed was occupied. Too few preparations had been made in Mets for the reception of wounded; consequently, our caserne being empty, and a full corps of Medical officers in attendance, the greater part of them were shipped over to us. Just imagine what the results must have been, from 1200 wounded crowded into one hospital! but with it all, the only successes, so to say, which have been obtained during the entire bless of Metz were from the wounded of this first battle; afterwards, the infection became so terrible that to operate was almost certain death.

Borny cost the French near 2000 men in wounded and dead. Owing to position, the losses of the enemy were much greater, and especially in killed, as I remarked in riding over the battle-field the next day. An armistice having been agreed upon on the 18th (the day, following the engagement), to last from the 18th (the day, following the engagement), to last from the 18th (the day following the engagement), to last from the 18th (the day following the engagement), to last from the 18th (the 18th (the 18th engagement), to last from the 18th (the 18th engagement), to last from the 18th (the 18th engagement), to last from the 18th engagement (the 18th engagement), the 18th engagement (the 18th engagement), the 18th engagement (the 18th engagement), the officers having given their parole not to serve during the war. When our little train arrived in Metz that evening, citizens and soldiers received us with open arms. This, our first success, had worked wonders with the army; our uniform became known, and many an officer gave it the first

Little thinking that we should ever be in want of anything for our own wounded, we sent next day to the Knights of St. Jean, connected with the Prussian ambulance at Colombey, who had expressed a willingness to accept these articles, wine, cognac, chocolate, tea, and sugar. Inasmuch as the cessation of hostilities on August 15 had been specially agreed upon for the purpose of burying the dead, General Coffinières, or property of the purpose of burying the dead, General Coffinières, or property from test 15, allien to join us on a attituding of pieces from for St. Julien to join us on a attituding the watchfulness of the German Uhlans. While we were engaged in taking charge of our wounded in Colombey, horsemen came galloping up to announce the departure of a body of men from forf St. Julien. We assured them that these were soldiers sent for the purpose of burying the dead, and that no violation of the armistice need be feared. The Uhlans were tight—for, sure cough, the French pioneers had come out regist—for, sure cough, the Trench pioneers had come out before they were allowed to approach the field and dig their trenches for the dead.

Speaking of the dead, I shall always remember the little hollow road leading from "La Ferme de Bellecroix" château of Colombey. It presented a sad picture, indeed. The hottest of the fight had occurred here; the French dead were hottest or the nght had occurred here; she fremen uess, were lying very close to each other, and most of them shot in the head. The road is deep, ravine-like, hiding one almost up to the shoulders, so that nothing hat the head is exposed. A French battalion of the line had taken position here. About 150 yards opposite is a wood, which was occupied by the tow yarts opposite is a wood, which was occupied by the German Jagers—a fact which may account for the precision of the fire. One of the most horrible sights I saw that day was a portion of a dead body, with head, shoulders, and apper portion of trunk wanting. A shell must have struck the nn-fortunate man near the region of the lumbar-vertebre, exploding as it struck, for nothing could be found of any part of the body above the polvis; at a distance of from four to five yards was a portion of the stomach, to which was yet attached the small intestine, and in perfect communication with the sigmoid small intestine, and in perfect communication with the sagmoid floxure and rectum, left in place. Not far from the little hollow road just mentioned were lying twenty-five or thirty Prussian fasiliers, all in line. I imagine they must have been mowed down by a discharge from a mitrailicuse; I do not know what cles could have done the work. As regards the mitrailleuses, I have never yet been able to get an exact account from any German Surgeon as to the manner of wounds produced by this new engine of destruction. Some say they have never seen any wounded from that canon; some deny its effects altogether; while others tell me that the person struck by it is attogener; white objects. I am rather inclined to believe the latter story, which, if true, would also go to prove that the latter story, which, if true, would also go to prove that the mitrailleuse is not the terrible instrument which the French think it to be; and that, lest it can be fired at a given distance, the balls hold together, instead of scattering, and therefore the mangling of the body which receives the discharge. Twentyfive balls, very similar to, only a little larger than, those of a chassepôt, form a charge.

(To be continued.)

BUILDING SITES.

On the evening of Monday, the 9th inst., Professor ANSTED read before the Royal Institute of British Architects an interesting paper "On Building Sites," which, however, he treated from an architectural rather than a sanitary point of view.

As an illustration of the importance of geologie considerations to architects, he pointed to the leaning tower of Pisa, and the cathedral in the same city, wherein there were no straight lines, owing to sinking of the foundations in various parts. As lines, owing to sinking of the foundations in various parts. As examples of buildings exactly adapted to their sites, he selected the pyramids in the plains of Egypt, and the rock temples in its stony parts. In Green, figuin, he peculiar charles are proposed to the proposed parts of the control of the proposed contro was not always safe, as, if the rock surface on which it laid down were inclined, a slip might take place, especially if these rocks were non-absorbent. Sometimes non-absorbent rocks were broken up on the surface, when they readily admitted of water to a certain depth, but there was then no means for it to escape, and its presence might induce disease. Of rocks ordinarily excountered, limestones were usually permeable; the harder schists not so, except through cracks. Clays were also impermeable, but their characters were not constant; and in this, as in other particulars, they were followed by the shales, which were mere hardened clays. In river valleys the building sites were ordinarily in clay, alluvial, or boulder deposits. And it must not be forgotten that rivers tend to change their courses from time to time, so that the character of a deposit in a river valley was far from constant. In considering the propriety of selecting a building site, the natural drainage must be remembered. And here a knowledge of the texture and stratification of the subjacent rocks was all-important. Clay was less healthy than well-drained sites, hut modifications arose from the subjacent rocks and the conditions of those rocks. He also alluded to Pettenkofer's views on or knose rocks. Are also anuaced to rettenkoter s views on ground-water as bearing on this subject. The water supply was also considered, and it was pointed out that a supply drawn from a porous soil subtended by impervious rocks, the whole being covered by decomposing organic matter, must be unsafe. In warm and dry climates, where the rocks contain air, this would be given off in hot weather, and absorbed in cold; if decomposing organic material were also present, the effluvia would be poisonous; and this he considered to be the cause of the unhealthy condition of certain of the Mediterranean towns. They would be better for a layer of clay above these rocks.

The only speakers who considered the subject of the paper from a sanitary point of view were Dr. Letheby and Dr. Drutt. Dr. Larrunar remarked that the paper dealt with the buildings rather than with the people they were to contain. From the latter point of view, both soil and building material were too much neglected. Pettenkofer's views be thought were especially worthy of attention. During the last cholera epedemic in the East-end of London, cretain speak were exempt, and he time, and in all about fifty, occurred here, but nowhere else in the building. This room stood on a porous foundation, the rest did not. A school at Linchouse stood in the midst of a cholera district, yet was unsattacked. It turned out to be situated on a little Island of clay. There were many such instances—places not being affected, although using the same water which deswhere was supposed to propagate the contained of the propagate of the propagate of the contained of

Dr. DEUTT thought the architect somewhat hardly treated; too often the site was selected before he was consulted, and he had to do his best with it; just as patients would count on being cured without putting themselves to the slightest inconvenience, and with an utter disregard for regimen. The paper and the discussion taught them how complex a thing life is. and the discussion taught them now complete a tuning in shifties was diminished, but typhoid increased, but each tirm was true Pettenkofer's views were, that with a low level of ground-water, typhoid and cholera prevailed; but his views were not so diverse from those ordinarily entertained. In gravelly not so diverse from those ordinarily entertained. In graveily soil there was a constant flow of water; if this was low, old give off poisonous emanations. Whether taken as drink or inhaled in vapour, foul water seemed the vehicle of cholera. He also alluded to the bad effects of made ground as a basis for building. He thought they explained certain maladies like scarlet fever. If there were any truth at all in their doctrines, health must suffer from the effects of made ground.

PROVINCIAL CORRESPONDENCE.

LIVERPOOL

January 10.

THAT even a very inefficient vaccination is better than none at anar even a very memcient vaccination is better than none at all is, I think, being strikingly manifested in the epidemic of small-pox of which this town is at present the subject. Up to the 8th inst. there had been 147 admissions into the sheds to the std last. there had been 147 admissions into the shear in Ashfield-street, which, since the decline of relapsing fever, have been specially set apart for the reception of patients suffering from variots. Full reports are daily made by Dr. Robertson, the very able Medical officer in charge of these sheds, of the age, residence, condition as to vaccination, the particular form of disease, etc., in each case. These reports particular form of theseses, etc., in each case. Insee reports are forwarded to the Vestry Clerk as soon as they are made up, and it is to the kindness of the latter gentleman that I am indebted for an opportunity of inspecting them, and being able to give a few notes on them.

Firstly, of the indications which the patients presented of having undergone vaccination. I find that 37 were returned as having been not at all, or, at best, but very imperfectly, vaccinated; 39 as having had only one cicatrix each, of which seven are specially noticed as being faint and seven more as being large; 56 as having two marks each, the report noticing ten of these double marks as large and six as small; 8 as having three marks each; 3 as having four; and 1, and only

1, as having five.

Altogether there have been 37 deaths, or almost exactly 1 in But the important feature is the manner in which these deaths are distributed. Thus, of the 37 not vaccinated, 19, or more than one-half, died; of the 39 with one mark, 5; of the 6 with two marks, 10; and of the 8 with three marks, none. Of the 3 with four marks, 1 died, but a special note is placed on his admission-card as to his being the subject of advanced phthisis when attacked. When, moreover, the numbers of those who died with one or two marks on the arm are closely inspected, it is very instructive to note how the mortality rises in those cases where the word "faint" is appended concerning m mose cases where no word "nant" is appended concerning the cicatric, and falls where the cicatrices are specially noted for their large size. Thus, of the "whose arms presented a single large cicatrix, not one died; while out of the ? where the mark is stated to have been "fair" or "small," 4 died. Of the 10 cases, again, where the two cicatrices were specially indicated as "large," there was no death; while of the 6 with two faint cicatrices, 3 died. And it should be borne in mind, as showing that there could not be any effect of even an unconscious leaning in the mind of the gentleman making the report towards magnifying the value of vaccination, that the returns giving 'be state of the arm, etc., etc., are made up daily and transmitted to the central office, while those of the deaths are not able to be given until days, and in some cases weeks, afterwards.

As in all epidemics, there are some peculiar cases. Thus, one patient was admitted with her face deeply scarred from a previous attack, who yet suffered on this second occasion from a very severe confluent small-pox.

As pointing, again, to a mode of conveying the disease during an epidemic: two young men, engaged in a pawabroker's shop, seized, one after the other, though there were no other cases in cr very near to the house. Of the character of the

disease in each case, complete returns, owing to the temporary absence of Dr. Robertson, were not made. In 108 cases, where the returns give the type, 57 are mentioned as discrete, 33 as semi-confinent, and 18 as confinent. The notices of the residences of those attacked are indicating the daily extension of the epidemic over a wider area, so that we cannot as yet entertain any good hope of its end drawing near.

BIRMINGHAM.

CHRISTMAS AT THE CHILDREN'S HOSPITAL

Turs is quite the pet Hospital of Birmingham, and the children in it have not been forgotten at this festive season—everything having been done in the shape of dolls, articles of clothing, and monster Christmas trees to interest and amuse the little inmates, whose eyes brightened up at the choice and variegated display. The history of the charity, which may not be devoid of interest, runs thus:—A few influential gentlemen, most of them Professional, hit upon the idea of projecting it, amongst whom figured conspicuously Dr. Heslop. Six beds formed its whom figured conspicuously Dr. Healop. Six beds formed its nucleus, lodged in the dingy locality of Steelhouse-lane, at the old Eye Hospital. The funds and friends quickly increasing, the institution soon became crowded, when, at the beginning of the year just passed, it was proposed to remove it to the Lying-in Hospital, which had become vacant, in Broad-street, and in Höspital, which had become vacant, in Broad-street, and to convert the Stechnous-lane building into an out-door department. This arrangement has been carried out, and the result is, after considerable alterations and improvements, a commodious Hospital, of pleasing exterior, situated in one of the best localities of the town, in juxtaposition with the aristocratic neighbourhood of Mgbaston. The charity consists of three excellent wards—one detached for the reception of fever cases and other contagions diseases. There are fifty-three beds in all, and at the present time only two are unoccupied; these are in the fever ward. The Hospital is established on the free system, all cases being ad-Hospital is established on the free system, all cases being admitted, the only restriction being as to age; none above 10 can enter. It is supported by voluntary contributions, and boasts of a goodly list of donors and subscribers. The patients are derived, not from amongst the pauper population, but from the pretty, well-to-do classes, who are, however, unable to pay doctor's bills. The tures are of a superior class, having been denested at the Training Institution. The surface of operations of the party o in Steelhouse-lane affords relief to about 10,000 patients a

year. The detention in Hospital averages about fourteen days.

The Medical charities of Birmingham have received over The Medical charities of Dirmingham have received over £10,000 doring the past quarter, £6,000 clear accruing from the festival towards the funds of the General Hospital, and £4085 18s. 3d. net for the "Amalgamated Medical Charities," which is collected the last Sunday in October, now popularly

known as " Hospital Sunday."

GENERAL CORRESPONDENCE.

AMALGAMATION OF MEDICAL SCHOOLS. LETTER FROM DR. E. HEADLAM GREENHOW.

[To the Editor of the Medical Times and Gazette.] SIR .- An article on "The Amalgamation of Medical Schools."

published last week by one of your contemporaries, appears to me calculated to convey so erroneous an impression of the position of the Middlesex Hospital Medical College with respect to the suggested amalgamation, that I venture to trouble the following brief explanation of the real state of the case, so far as the Middlesex Hospital is concerned, and request you will have the goodness to allow it to appear in your journal of

will have the government to appear in your journal of the present week.—

No active steps are being taken, or have at any time been taken, by the Middlesex Hospital staff or Medical School towards amalgamation with either of the other Medical schools named in the above-mentioned article; neither are any named in the above-mentioned article; nother are any negotiations now on foot to bring about that object. In fact, the question of amalgamation with any other Medical school has never, since I have been a member of the staff, been hrought under discussion at any meeting of the authorities, lay or Medical, of the Middlesex Hospital.

It is true, indeed, that about eighteen months ago, certain members of the Middlesex Hospital staff, of whom I was one, were invited privately as individuals, but in no way as reprosentatives of our School, to meet certain Medical Professors of University College, in order to discuss the possibility of drawing up a scheme for amalgamation. At the close of the ing up a scheme for amaignmation. At the close of the doliberations we stated our readiness to consider any scheme for amaignmation which might be proposed by the authorities of University College, and, if we approved of it, to submit it to our colleagues, and ultimately to the lay authorities of the Hospital. From that time, however, up to the present moment, we have received no further communication on the subject.

I can readily believe that, especially in view of the recent regulations of the College of Surgeons, the means of securing a much wider field of Hospital practice must be a question engaging the anxious attention of the Medical Committee of University College Hospital, but I cannot help thinking that your contemporary has been premature in publishing the fact, sa he has certainly been mistaken in supposing that any nego-tiations have as yet been opened with the Medical Committee of the Middlesex Hospital towards the accomplishment of the

union said to be projected.

I may further say that, on the part of the Middlesex Hospital staff and Medical College, there is no desire to enter upon any such negotiations, unless it be clearly established that the such negotiations, unless it be clearly established that the solution of the great Medical question of the day—viz., the improvement of Medical education generally, rather than the improvement of the position of any individual Medical school—

is to be the real object of the suggested amalgamation.

I am, &c.,

E. Headlam Gerenhow, M.D., Treasurer to the Middlesex Hospital Medical College. Upper Berkeley-street, January 9.

CAMBRIDGE EXAMINATIONS.

[To the Editor of the Medical Times and Gazette.] Sin,-Would you permit me to point out that you do not appear to have understood that the two older Universities, though requiring much less in amount than London, require far greater accuracy. Certainly, all the London degrees are far more difficult to obtain than the Oxford and Cambridge ones; but the former University too much encourages breadth, without remembering that depth is ever more important. Consequently, I, for one, rate the Oxford and Cambridge pass degrees as little less valuable than the corresponding London ones. But I may be permitted to express my astonishment at the surprising letter sent you by "A Cambridge M.A." He has fallen into the great error of basing his argument—that the Cambridge of to-day is as hard to get as the London one-on the fact that, nearly twenty years ago, the London B.A. was not a very good degree. So rapid is the progress of the age, especi-ally in the severity of the London examinations, that we cannot even refer to bygone ages.

The old Universities are, as a rule, frequented by better trained men than those who go to Burlington House-men of greater wealth and higher status, and who have hence enjoyed greater wealth and higher status, and who have hence enjoyed greater advantages. Moreover, the Londou University is open to everyone, without restriction of any kind, or proof of pre-paration; and hence, not a few men go np who could not pass anywhero-being as deficient in intellect as in learning, but who swell the total of rejections. Still, in spite of all this, the London standard of rejection is tremendous; and the fol-lowing futures will, judging from "M.A."s." letter, be quite

new to him, at least :

			Car	ndidates.	Failures.
Matriculation	(1869)) .		816	427
First B.A.	. ,,			189	94
Second B.A.	**			141	73
M.A.	99			16	5
Second B.A.	(1870)) .	about	145	84

My evidence will seem all the more impartial as I am an Oxford man, though I have passed five examinations at the London University, and also failed twice. It may be fair to add that, so different is the curriculum at the rival Universities, or, rather, the course for their degrees, that it is not easy to compare the amount required by each, and strike a fair estimate of the severity of any of the three bodies. Let me add that, though no doubt it is very much easier to get the Cambridge M.B. than the London one, the more careful training of the former man and the greater accuracy of his knowledge will seldom put him to shame. I am, &c.,

AN EX-UNIVERSITY COLLEGE MAN.

THE ARMY MEDICAL DEPARTMENT.

[To the Editor of the Medical Times and Gazette.] SIR,-Herewith I enclose a form which has lately been issued to all regiments, so as to account for the expenditure of all medicines and Medical or Surgical appliances in Hospitals. I am quite of opinion that any extravagant outlay of drugs, etc., should be checked, and any waste inquired into, but the worry and annoyance to keep the caclosed form correctly—not to speak of the great loss of time—are something too much. That a Hospital Surgeon can at the end of each day sit down and calculate how many fractions of grains each seldier has had in the day, look over prescriptions, and separate their component parts, calculate how many squares inches of lint each patient has had, or add up the ounces of linesed meal for each positive, has had, or add up the ounces of linesed meal for each positive, guess-work, and if delayed for a day or two would take hours and hours to work up. We hoped, after the oft-quoted Crimean experience, that forms and returns would be simplified and diminished in number; and so at first they were, but it seems now that every day adds to their number, and I do not think, authors. We mant wait I automos, for another was to sweep calculate how many fractions of grains each soldier has had in authors. We must wait, I suppose, for another war to sweep away all the rubbish with which our departments are encumbered. It is a subject for thought, as to whose great genius we are indebted for the form I send you. Surely there can be no work to do at the office in Whitehall-yard if time can be found for compiling an affair like this. I venture to say that round for compiling an affair like this. I venture to say that at no civil Infirmary would such a form be attempted to be kept, nor do I think that at our model institution, "Netley," it is done. Our returns and requisitions for medicines, etc., are minute and dear enough, and any undue extravagance in any particular could be seen, and explanations called for, without a vexatious and stupid return such as this.

I'am, &c., A SURGEON OF TWENTY-FIVE YEARS' SERVICE.

REPORTS OF SOCIETIES.

THE PATHOLOGICAL SOCIETY. TUESDAY, JANUARY 3, 1871.

RICHARD QUAIN, M.D., President, in the Chair.

ANNUAL MEETING.

Mr. HULKE read the report of the Council, which showed the Society to be in a very flourishing condition. Their numbers were 474 mombers, and they had increased during the year. The report of the Committee on Lardaceous Diseases had not yet been finished, but was expected to be so soon.
balance-sheet showed £102 7s. 9d. in their favour.

The adoption of the report was moved by Dr. Powell and seconded by Dr. T. Fox.

The ordinary business of the Society was then proceeded

with,

with. Herveoo Surm exhibiting a specimen of Diseased Kidney from the body of a spatient wholied three wrete ago. Lidestometh had only a spatient from childhood, and also cocasionally passed thick water. He tapped the cyclic kidney with a fine trocar. This had been done before by Mr. Savory, in St. Bartholomew's Hospital, two years and a half ago. Daath followed. Her live was very large, and the right kidney was large and bealthy. The left formed an conronous eyst, and weighed 9 lbs. It contained calcareons masses.
Dr. Dickinson thought most of the new formation fatty.

This was often so with local congestion, ending in contraction. Something of the same kind was seen after pleurisy.

Mr. HULKE exhibited some drawings of Rodent Ulcer of the Face. As to its essential nature, some said it was caneer. It began in middle life and invaded all the tissues, cicatrising at one spot and progressing at another. It did not, however, invade the lymphatics. Some thought it affected connective tissue only. Of the three cases recorded, two occurred in lanndresses, one in a farmer. In one the ulcer began in the chin, and croded the jaw. It had hard edges, and gave rise to an offensive discharge. It was gonged, and had nearly healed. The connective-tiesue corpuscles were proliferated. In another the ulcer was on the left side of the face. Its base and margins were indurated. Its hard tissue was composed of cellular elements alone. In the third the aleer was on the cheek, uneven of surface, increasing and cicatrising.

Mr. AENOTE wild that in one of Mr. Moore's cases the Structures were like those of epithelioma. He had himself seen one with the characters of rolent theer and the structure of epithelioma. There was no glandular affection. In another the diseased parts had been removed four times, and the patient was still alive. The edges were like ordinary hard cancer, but there was no glandular affection.

Mr. HULKI next showed a specimen of Sarcoma of the Lover Jaw. The patient, a lover, had atmorn in the middle of the jaw, which did not, however, distort the line of the toeth. A small hard tumour had previously ben removed from his lip. 11 looked rather like a recurrent fibroid. It was removed, and the patient did well; but it again returned. He texture was fibrillated, and it contained various-shaped cells. Histologically it was scirrhous.

The same gentleman also exhibited a Fibroma of the Transversalis Fascia from a woman, aged 32. It was of the size of a goose's egg, and was situated in the right groin, and was movable, except at its base. It was removed, and the patient

Dr. Mrnemasov exhibited some Renal Calculi and Gall Stones, which had possed the same way. The patient, a lady, had in 1866, suffered from biliary colic. At the end of the year a swelling appeared blow the ribs, which was supposed to be an absecses. It was opened; but there was no bile in it. Three or four words after, a stone passed, and subsequently nine culus on the right side came on, and a tumour appeared in the right series. The opening in the side closed in 1869, and the patient seemed well. This year pain came on in the right side, with righters and vomiting. The urine was examined, and found healthy. Then came a lot of pus, and the urinary calculus was found.

Dr. Mcneumor also showed another Biliary Calculus, which had been passed through the parietes. This was not very uncommon. In this case the common duet was obstructed. The patient, a flady aged 24, land been subject to violent attacks of pain in the side. A tumour formed below the ribs. It was opened, and a visied fluid escaped, containing no bilo pigment. The opening remained patent, and some small hard bodies escaped from it. Great pain was experienced on this side, and one morning she awoke divended with this. None passed by the bowd, but there was little jamanides, and hardly any bile in bowd, but there was little jamanides, and hardly any bile in which the property of the property of the property of the passed was commons—as much as one or two pints a day, sometimes an ounce and and a half per hour.

A third specimen was a Mediastianl Tumour—a lymphadenoma—from a female, aged 21. A similar growth was found in the kidneys. Fifteen months before, she had suffered from returnation fever; after that she suffered from a pain in the chest. In August this year she had a fit of coughing, after which the pain was increased. She became livid, and was slightly dropoical; her dyspinces was subject to slight exacertations, and there was some bulging on the right side. The second heart-sound was weak. Bohind there was tubular breathing, but no dulness. She died in a fit. It was possible that many of the timours in this situation were really of this kind, and not canacerous.

In reply to Dr. C. T. Williams, Dr. Musculson said the mass might have originated in the thymus; it involved all the structures round about.

Mr. Caprr showed a specimen of cured Popliteal Anousian, the patient having died of an aortic one. The patient was a man spect forty. He first tried flexion, but the man could not stand it. By means of tourniquest the flow of blood was arrested, and the tumour gradually decreased. There was then no sign of internal ancertism, but after going home be brought one of the burney of

Mr. Scuruz exhibited a specimen of Direct Inguinal Herais from the body of an elderly woman. She had ashma, and the cough made the hernis worse, It became incarcerated, hut the symptoms were not very bad. An operation was performed, and she was relieved, but died, apparently from cold. There was no find in her pertioneum.

After the election of office-bearers, and other business, alluded to in our last, the meeting dispersed.

OBITUARY.

WHLLIAM CALLENDER TIDY, M.D.
Os Christmas-day, at his residence, "The Holline," Marc-strevt,
Hackney, aged 72 years, died William Callender Tidy, M.D.
King's College, Aberdeen, the oldest Medical Practitioner in
the parish, and whose gentle and anniable character endeared
him to patients and friends. Highly hosoarcharber with
the parish, and whose gentle and anniable character endeared
him to patients and friends. Highly hosoarcharbed waters
the softening influence of his own benevolent nature, and, by
the quiet humour he so abundantly possessed, put a new phase
on a fancied injury. A scholar and a gentleman, how will he
be remembered by some of those who constituted our local
book society, as one whose influence would stife any unkind
renark or illiberal insendo! Thus passed way one of these
gentle, ministering spirits, who assatuded by hay one of those
gentle, ministering spirits, who assatuded by all the properties of the propertie

MEDICAL NEWS.

ROYAL COLLEGE OF SURGEONS.—At the recent preliminary examination in Arts, etc., for the Fellowship and Membership of this institution, which was conducted by the College of Preceptors, 303 candidates were examined—vix, 82 for the Fellowship and 221 for the Membership. For the former distinction 61 were successful, and for the latter 104. The following are the names of the successful candidates for the Fellowship, viz.:—

Adame, J.	Good, D. O. J.	Roche, A.
Aldridge, C.	Green, J.	Saunders, E. II.
Anningson, J. W.	Harding, G. C.	Sherwood, A. P.
Basham, W. R.	Hall, W. H.	Smalley, H.
Bate, Q.	Higgins, C.	Snell, G.
Bellingham, J.	Diff. P.	Bobey, A. L.
Hinkiston, A. A.	Hott, H. J.	Steele, H. F. A.
Bloxam, J. A.	Jones, D. J.	Stevens, A. F.
Boyle, E. C. C.	IAW, W. T.	Stevens, G. J. B.
Bull, J. W.	Leavens, R. C.	Stevens, H.
Carter, R. W. F.	Manders, II.	Stevenson, L. H.
Channer, O. H.	Marshall, E. G.	Stockwell, W.
Chayasse, J. F.	Marshall, J.	Thaine, L. L.
Cheeseman, G. E. A.	Massiah, B. J.	Thomas, R. T.
Clapham, W. C. F.	May, S.	Webb, C. L.
Contes, H.	McHardy, M	Williams, W.R.
Corbin, A. F.	Powell, A. E.	Willenck, W. II.
Cumming, R. F.	Plumbe, J. T.	Winekworth, C. C.
Dalton, A. E.	Pyeock, H. A.	Young, A.
72 72 7	Donness D A	

Davies, F. J. Ransom, R. A. Day, E. J. Ring, C. O. The following passed the preliminary examination for Mess-

beoship, viz. :		
Allen, G. W.	Habgood, H.	Paralec, E.
Allen, R. G.	Haines, G. H.	Paul, E. W.
Anningson, T.	Harding, A.	Pearless, W. R.
Atkiuson, H. S.	Harrison, A.	Pendleton, J. N.
Baedeker, P. W.	Harvey, W. G.	Perry, C. E.
Bain, A.	Hayes, C. H.	Phillips, C. H.
Baker, H. M.	Henley, E. W.	Pickford, J. K.
Bardin, J. W.	Hetherington, G. H.	Piers, H. O.
Barrow, L. A.	Honeywill, B.	Pilling, E. T.
Bernays, H. L.	Hooker, J. S.	Randle, M.
Bigger, S. F.	Hopgood, W. C.	Rhodes, C.
Boothroyd, A. E.	Horne, J. F.	Rhodes, W.
Brandreth, C. L.	Howard, E.	Rhys, J.
Bridgeford, W. A. S.	Howitt, T. W.	Richards, T.
Briggs, W. H.	Johns, W. S.	Roberta, W.
Brock, C. De L.	Johnson, W.	Robertson, C. A.
Brown, T.	Johnson, W. Jones, V. L. W.	Boss, A. H.
Bruce, P.	Jubb, A. II.	8 ampson, H. M.
Buckland, A. G.	Kellard, J. T. W.	Scully, J.
Buckland, F.	Kevern, H. E. S.	Shaw, E. J.
Bush, E.	Kinch, G. H.	Shaw, H. G.
Cameron, C. H. H.	Knox, C. P.	Smith, 8,
Clark, W. T. M.	Latham, W.	Smith, W. N.
Collyns, R. T. P.	Layborn, W. K.	Spooner, F. H.
Cresswell, W. G.	Lloyd, T.	Street, A. W. F.
Culhane, P.	Lyne, H.	Bymonds, C. J.
Curwen, C.	Lyster, C. B.	Tudge, J. M.
Davis, C. H.	Macintire, J. H. L.	Turner, A. F.
De Gruyther, E. J.	Malthy, W. B.	Turtle, W. G.
Eales, B. H.	Maltby, W. B. Martin, T. J. H.	Wakefield, A.
Earle, E. J. V.	Martland, E. W.	Walsh, H. W. D.
Edwards, C. A.	Mason, J. W. B.	Ward, T. W.
Evans, F. W.	Master, G. R.	White, A. O.
Ferguson, J.	Maynard, H.	White, H. C.
Fort, T.	Muddle, E. J.	Williams, H. H.
Gould, E. G.	Ormond, P.	Willin, C. F.
Griffith, D. C. B.	Nankwell, F.	Young, A. S. W.
Grimmer, J. M.	Newton, J.	
Guy, Jr. R.	Parkinson, S. G.	

The next preliminary examination in Arts for both Fellowship and Membership will take place in June. The first

primary or anatomical and physiological examination for the present session will take place on January 14, for which, it is stated, about 80 candidates have entered their names. The pass or final examination will take place on Friday next.

APOTHECARIES' HALL.—The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practice, on Thursday, January 5, 1871 :--

Langley, Noah Beldom, Cricklade, North Wilts. Rastrick, Edward Elliott, South-ea, Hants. Turner, Frederick Harry, High Wycombe.

The following gentlemen also on the same day passed their First Professional Examination:—

Hill, Thomas Wood, St. George's Hospital. Wade, Reginald, St. Bartholomew's Hospital.

*• The Editor will thank gentlemen to forward to the Pub-lishing-office, as early as possible, information as to any new Appointments that take place.

CARRUTHERS, WILLIAM HODGSON, M.D. Edin., M.R.C.S. Eng.—Senior House-Surgeon to the Boyal Infirmary, Manchester, vice Bontflower.

CUBRAN, JUHN WARING, L.R.C.S. Ireland.—Surgeon to the Mansfield Wordhouse Infirmary.

Danay, J. T., M.R.C.S. Eng., L.S.A.—Physician's Assistant to the Royal Infirmary, Manchester, vice Mr. Sutcliffe.

DOBLE, WILLIAM, L.R.C.S. Edin. -Surgeon to the Police, Bingley, York-Sance, W. C., M.D.—Medical Officer to the Out-patients of Queen Charlotte's Lying-in Hospital, vice Dr. Cholmondeley, deceased.

Hassison, Richard, M.R.C.S. Eng.—Assistant House-Surgeon West London Hospital, Hammersnith, W.

HUNT, JOSEPH, M.R.C.S. Eng.—Resident Surgeon at the Birmingham General Dispensary.

Lee, Edwago Sauget, M.R.C.S.E. and L.S.A.—House-Surgeon West London Hospital, Hammersmith, W., vice T. L. Brown, resigned. Bouch, J. Ryatt, F.R.C.S.—Surgeon to the Metropolitan Free Hospital, vice John Warner, resigned.

SMITH, РВОТИКВОК, M.D.—Corresponding Member of the Imperial Academy of Medicine of Rio de Janeiro.

Acasiemy of Medicine of Rio de Janeiro.

Sircitiff, A. E., M.R.C.S. Eng., L.S.A.,—Junior House-Surgeon to the Royal Infirmary, Manchester, vice Mr. Carruthers.

Witzens, J. Mess Mircheux, M.B. and C.M. Univ. Glasg.—Medical Officer and Public Vaccinator for District No. 4 of the North Witchford Union, Cambridgeshire.

ADMIRATY.—The undermenioscol different per less than the provisions of her Majorty. Order in Ouncil of February 22, 1800: -Surgeons: Robert Majorty. Order in Ouncil of February 22, 1800: -Surgeons: Robert Majorty. Order in Ouncil of February 22, 1800: -Surgeons: Robert Joseph E. N. Blikke, from August 5, 1870; Assistant-Surgeon Dr. Thomas St. J. Clarke, from Octobe 5, 1800; Assistant-Surgeon Dr. Thomas

BIRTHS

EDROWER.—On January 6, at Castle-street, Shrewsbury, the wife of William Eddowes, M.R.C.8. Eng., of a daughter.

MAURICK.—On January 1, at Mariborough, the wife of Dr. James Maurice, F.R.C.8., of a son.

TREND.—On January 3, at Southgate-road, London, N., the wife of Dr. Henry G. Trend, of a son.

VALKER.—On January 8, at 10, Ovington-gardens, S.W., the wife of Arthur De Noe Walker, M.D., of a daughter.

Walters.—On January 4, at Reigate, the wife of John Walters, M.B., of a daughter.

WHIPHAM.—On January 4, at 37, Green-street, Grosvenor-square, the wife of T. Whipham, M.B., of a son.

Whitmanss.—On January 10, at Albemarie Honse, Hounslow, the wife of William Michael Whilmarsh, M.D., of a daughter.

WRIGHT.—On January 2, at Romford, Essex, the wife of Alfred Wright, M.R.C.S., of a daughter.

MARRIAGES

COUSINS—CLAERS.—On January 5, at 8t. Paneras Church, Alfred Walter Vaughan Cossins, of the Colonial Civil Service, Straits Settlements, and fifth surviving son of Captain Cousins, of Boundary-road, 8t. John's wood-park, to Annie, youngest daughter of Joseph Clarke, M.D., of 6, Mecklenburg-square, London.

CURSIE-WAYELL.—On January 4, at Square Church, Halifax, Donald Currie, M.D., of Oak Craig, Wemyss Bay, North Britain, to Sophia Elizabeth, daughter of E. Misson Wavell, Esq., of Field House, Halifax. ransacvan, usugniter of E. Minison wavent, Esq., of rield House, Halifax. PULLER—Passati.—On January 5, at 8t. Mary's Church, Lewisham, Leonard Puller, of 4, College-park, Blackbeath, fifth and youngest son of Hugh P. Puller, Esq., M. R.C.S. etc., of Abber, road, N. W., to Janet, youngest daughter of the late Frederick Owen Passau, Esq., of Lewisham, Kenz.

nam, acnt.

HALLETT—MARTIN.—On November 12, 1870, at Kiddapore Church, Calculta, Holt S. Hallett, C.E., fourth son of Thomas Purham Luxmore Hallett, of Lincoln's-inn, Eq., barrister-at-law, to Charlotte Annie, eldest daughter of C. Martin, M.D., late of Middlewich, Cheshire.

HORNE-Grassov.—On January 5, at St. George's, Bloombury, Octavius, youngest son of the late B. W. Horne, Esq., of 28, Russell-square, and Mereworth, Kent, to Harriet, second daughter of John Rowland Gibson, F.B.C.S. Eng., of 10, Russell-square, W.C.

LERDAN—EDWARDS.—On December 28, at Christchurch, Waterloo, Henry Leedam, Cambridge-house, Scaforth, to Amy, daughter of the late Edwin Edwards, F. R.C.S., of Crewe.

Edwin Edwards, F. R.C.B., of Crews.

And-Docoalt.—Foaryris.—On January 5, at 8t. Thomas's Episcopal Church, Edinburgh, H. R. MacDoneall, M.D., Sungroon, Hombay Army, third surviving son of the late Admiral Bir John MacDougall, K.C.B. Dunolle, Argylishire, to Caroline Harriet, youngret daughter of the late James Fornyth, Seq., of Glengurm, Mull, Argylishire.

PLACE - WEST. - On July 7, 1870, at St. James, Sydney, John Scott Flace, of Glamorganshire, to Helen Mary, fourth daughter of the late George West, M.D.

Roberts—Ohmon.—On January 5, at 8t: Giles's Church, Camberwell, J. C. Roberts, M.D., M.R.C.S., of Nunhead, to Jeanette, younger daughter of C. Oammon, Eeq., The Chestnute, Peckham-rye, and Bargevard. Bucklersbury.

DEATHS

Gairs, Groude Edwix, Surgeon, 2nd Battalion, 6th Royal Regiment, at Buttevant, on December 28, 1870, aged 45.

Goger, Dr. JEAN Noz, at Frankfort-on-the-Maine, on December 31, 1870. GOGEL, Dr. JEAR NOE, at Frankfort-on-the-Maine, on December 31, 1870. III.L., Ars, widow of the late John Hill, M.D., of Leicester, at Kingston-on-Thames, on January 8, in her 80th year.

KENDELL, FARNY MOUNCEY, eldest daughter of D. B. Kendell, M.B., at Heath-house, near Wakefeleld, on January 4, in her 22nd year.

LOW, ALEXANDRE JAMES, M.D., late student of St. Bartholomew's Hospital, at his father's residence, St. Brelades, Jersey, on January 5, aged 30.

Sionder, Lawis Davis, only son of Dr. James Lewis Siordet, of Mentone, at the residence of his great-uncle, John James Siordet, Esq., Claphamcommon, on January 5, in his 11th year.

TROART, FRANCES, widow of Edward Tegart, late of Dover-street, at 8, Gloucester-place, on January 6, aged 73.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in successions. made, and the day of election (as far as known) are stated in succession.

ALDEBRATE VIEW, WILTH.—Medical Officer for the Third District. Candidates must have the qualifications required by the Poor-law Beard, Applications and testimonials to Mr. Thomas Josee, Clerk to the Guardians, Bedwin-street, Salisbury, on or before January 19, election on the 20th.

CHELTENBAM GENERAL HOSPITAL AND DISPENSARY.—Surgeon. A tions and testimonials to D. Hartley, Esq., Secretary, on or January 21.

East LONDON HOSPITAL FOE CHILDREN AND DISPENSARY FOE WOMEN, RATCLIFF-CROSS, E.—Surgeon. Applications and testimonials to the Secretary at the Hospital on or before January 28. Election the follow-

Secretary at the Hospital on or before January 22. Election the follow-Lev Wan University of the Property of the Property of the Early Wan University of the Proceedings of the Property of the General Coders of the Proce-law Board, and be reputed. Applications of the Property of the Property of the Property of the Property of the Applety, on or before January 14, election on the 16th Inst. "Managary" Bourtag Sur 1900 Seasons of the 16th Inst. "Managary" Bourtag Sur 1900 Seasons of the 16th Inst. "Managary" Bourtag Sur 1900 Seasons of the 16th Inst. "Managary" Bourtag Sur 1900 Seasons of the 16th Inst. "Doorts, Born, IT, Churcherters, Caulif, on or before January 16.

KENT COUNTY OPHTHALMIC HOSPITAL.—Consulting Surgeon; must be duly qualified. Applications and testimonials to R. Pearson, Esq., Secretary, Maidstone, on or before March 18.

Manuscoure, vas of occure Marca 19.

Minuscur Urson.—Medical Offices for the Milland District. Candidates must have the qualifications prescribed by the General Orders of the Poorlaw Board and be registered. Applications and testimonials to Mr. E. Albery, Clerk to the Guardians, Midhurst, on or before January 16. Election on the 17th.

NewCarls Diresmany.—Two Visiting Assistant Medical Officers; must be duly qualified and registered. Applications and testimonials to Mr. H. E. Armstrong, at the Dispensary, on or before January 26. The duties will commence on February 24.

duties will commence on February 34.

BOYAL SERROY CONTYT HOSTAL—Homorary Medical Officer. ApplicaBOYAL SERROY CONTYT HOSTAL—Homorary M.C. H. Dallas, ParscombeBectory, Godalming, one before February 32. C. H. Dallas, ParscombeBERLIADON USON—Medical Officer. Candidates must have both Medical
monists to Mr. T. A. McCoy, Clerk to the Guardians, Beverley, Yorkshire, on or before January 38. Election the following day.

POOR-LAW MEDICAL SERVICE.

POOR-LAW MEDICAL SERVICE.

** The area of each district is stated in area. The population is computed according to the last communication of the las

Skirlangh Union.—The Skirlaugh District is vacant; area 18,310; population 236. Also the Workhouse, salary £60 per annum.

APPOINTMENTS.

Rethnologreen Purish.—Edward John Adams, M. R.C.S.E., L.S.A., to the

-George P. Blackett, M.R.C.S. Eng., L.R.C.P. Edin., to the Whickham District.

Hashingden Union.—James Galloway, M.B., M.C. Univ. Glasg., to the

Hasingden Union.—James Galloway, M.B., M.C. Univ. Glasg., to the Edenfield District.

Hancheter Township.—Andrew Harris, M.R.C.S. Eng., L.S.A., as Senior Assistant Medical Officer at the Workhouse Hospital in New Bridge-street.

Helicogy Union.—Walter Buchanan, M.R.C.S.E., L.S.A., to the Second

Melroy Union.—Walter Buchanan, M.R.C.S.E., L.S.A., to the Socond District. Parity-line District. Deven, L.R.C.P. Edin., L.F.P. and S. Glavg., L.S.A., to the Aberdaron District. Skyring Union.—Edmund Young, M.R.C.S. Eng., L.S.A., to the Fourth District.

Meld Union,—Thomas Holman, M R.C.S. Eng., L.S.A., to the Framfield District.

THE HUNTERIAN ORATION. -Sir William Fergusson. Bart., will deliver this address on Tuesday the 14th proximo. THE COLLEGE LECTURES. - Professor Wilson will resume his course of Dermatological Lectures early in the

ensning mouth. Dr. C. A. Gordon, C.B.-The latest intelligence received from Deputy Inspector-General Gordon, who is still in Paris, is dated the 2nd inst. We are happy to hear that he con-tinues in good health, although, of course, undergoing very

singes in good health, atthough, of course, indergoing very considerable privations, and exposed to all the risks of the siege. MEDICAL CHARITIES.—Miss Elizabeth Cowen, lately deceased, has bequeathed £300 to the City of London Hospital. necessed, nas ocqueatined about to the City of London Hospital, and £200 to the Royal Free Hospital, free of legacy duty, and on a contingency happening, the residue of her property to be equally divided amongst such Hospitals in London and Westminster as her executors may think fit.

ARTS EXAMINATIONS. - At the recent preliminary examination for the Fellowship and Membership of the Royal

College of Surgeons, the total number of candidates was 303 viz., 82 for the former, 221 for the latter distinction. For the Fellowship, 61 passed, 11 failed to reach the required standard, but obtained a sufficient number of marks for the Membership. and 10 were altogether rejected. Of the 221 candidates for the Membership, 104 were successful, and more than half were rejected—viz., 117. It will therefore be seen that out of the total of 303, 127 were rejected.

THE mortality amongst the persons admitted into the temporary Small-pex Hospital, at Hampstead, exhibits the following striking results :- Deaths amongst the vaccinated. I in 24; deaths amongst the unvaccinated, 1 in 3. We learn that the managers of the Metropolitan Asylum District have had hands at work night and day on further temporary accommodation.

THE next meeting of the Association of Medical Officers of Health will be held at 7:30 p.m. on Saturday, January 21, at the Scottish Corporation Hall, Crane-court, Fleet-street, when Dr. Robert Barnes will bring forward for discussion ween Dr. Rouser Barnes will bring lorward for discussion the question—'How far is the present prevalence of small-pox to be attributed to the plan recently introduced of limiting the number of public vaccinators f' Dr. T. Spencer Cobbold, F.R.S., F.L.S., will read a paper "On Eutoos, in Relation to the Public Health, especially as regards Sewage Irrigation." Illustrated by drawings and specimens.

arrigation. Intestrated by drawings and specimens.

At the meeting of the General Committee of the Queeis Hospital, Birmingham, held on January 6, 1871, the Gollowing resolution was moved by the Rev. Dr. Wilkinson, Bestor of Birmingham, seconded by Mr. Furneaux Jordan, FR.C.S., Surgeon to the Hospital, and carried unanimously: F.R.C.S., Surgeon to the riospital, and carried diaminosary.—
"The Committee of the Queen's Hospital have received with regret the communication from Mr. West of his intention to make application for the post of Honorary Surgeon to St. Thomas's Hospital, London, as they fear, from his distinguished attainments and special qualifications, he will probably be successful in his application, and they would in such case be deprived of the services of an officer who has discharged his duties in this Hospital to the great advantage of the Inam unuse in this Hospital to the great advantage of the Institution, and to the benefit of the patients who have been placed under his charge; nevertheless, they cannot withhold the expression of their best wishes for his success in his appli-

HARVEIAN SOCIETY OF LONDON. -The following gentlemen have been elected officers of the Society for the year 1871:men have been elected officers of the Society for the year 1871:—
Prevident: Victor de Meric, Esq. Vice-Previdents: William
Hickman, M.B., M. Berkeley Hill, Esq.; James R. Laue, Esq.;
M.D. Hon. Secretaries: J. Breadon Curgouven, Esq.; H.
Cripps Laurence, Esq. Connel; W. H. Broodbent, M.D.;
John Hall Davis, M.D.; W. Tilbury Fox, M.D.; J. Geer
Jesken, Esq.; Edhamnd Medadl, Esq.; Thomas Morton, M.D.; Arthur H. Nowell, Esq.; W. B. Owen, Esq.; Charles W. Pearce, Esq.; Edwin Etty Sass, Esq.; J. G. Westmacott, M.D.; F. B. White, Esq.

N MINE, EST.

MILLION.—The firm of Messers. Cox.
Sounded Co. of the Tasteless Fill Manufactory, Brighton,
received the otherday a telegram from a west-rad firm, to know
whether they could undertake the making of a million quinine
pills within a fortnight—400,000 pills to be delivered in the
first week, and 600,000 in the second. Messrs. Cox. Son, and Co. undertook the work, and a large number of men are now constantly employed from early morning till late at night, and we understand there is every probability of the contract being completed within ten days. Each pill contains a grain and a completed within ten days. Each pill contains a grain and a half of quinine, and nearly 1000!, worth of this drug will be used, its value being calculated at the prosent market price, 6s. per ounce. The original order is evidently given for the sick and wounded in the war.

TREATMENT OF THE SICK AND OTHER POOR .- A meeting of noblemen and gentlemen interested in the welfare of sug or soutemen and gentiemen interested in the welfare of the sick-poor in our workhouses, was held yesterday at the Ship Hotel, Charing-cross, Dr. Rogers, the President of the Poor-law Medical Officers' Association, was called to the chair, roor-iaw Medical Officers Association, was called to the chair, and with the Rev. W. H. Foy, M.A. (late Chaplain of St. George's-in-the-East), Mr. Dexter (Kensington), the Rev. Henry Solly, the Rev. Edmund Auriol, M.A. (Rector of St. Dunstau's-in-the-West), Mr. Blanchard Jerrold, and the Marquis of Towshend, addressed the meeting. It was subsequently unanimously resolved-1. That, having regard to the exposures of workhouse mismanagement and malversation of Public moneys shown at the recent official inquiries held at St. George's-in-the-East and Kensington, conjoined with the facts elicited in evidence at the recent trial in the Court of Queen's Beuch (Catch c. Shaen), it appears, in the opinion of this meeting, desirable to revise the Association for the Improvement of Workhouse Infirmaries, and for securing a radical reform in the administration of the poor-laws. 2. With the view of taking such action as will convince the ratepayers of the Metropolis and the public generally that reform in our administrative arrangethe public generally that reform in our administrative arrange-ments is necessary for the removal of these manifold abness, it is resolved that a Committee be now formed, with power to add to their number, for the purpose of framing such regulations as may be needed, and generally carring out the objected of the Association. 3. That Mr. J. T. Destre be appointed Hon. Beretary, pro tem." Expressions of sympathy were received from several guideneen who were not able to be present at the

THE SEVERE WEATHER .- Mr. Thomas I. Plant thus concludes an article on the public health, in the Birmingham Daily Gazette of January 6:—"If the promotion of health had not been made the constant study of municipal rulers of many of our large two, there is no doubt that such trying years as 1868, 1869, and 1870 would have proved the saddest on record for great mortality. We are now passing through a phase of weather which is more destructive to human life than any other meteorological vicissitude. It is more fatal than fever of every known type. This great enemy slays the old and the every known type. This great enemy stays the old and the young, the rich and the poor. It has no respect for rank. Thousands and tens of thousands perish under the rigour of this terrible blast or frigid wave. The annual death-rate of the ten large towns for the week ending December 31 was no the ten large towns for the week ending December 31 was no loss than 32 per 1000, which is an increase of 65 per 1000 on the provious week. No one can wonder at this seeing the intense cold which has prevailed. The mean temperature of the twelve days ending January 1 was 22.67, being 14° below the average, and the lowest ever known or registered for twelve consecutive days. Such terrible cold in this climate is incommentable with houses endureed. The auffairing of the normality with houses endureed. patible with human endurance. The sufferings of the poor must be dreadful at this time. To alleviate the calamity by prompt measures of relief to the poor during this most inclement season, will tax all the efforts of the authorities in every town throughout the kingdom."

PARIS, December 30 .- The vin ordinaire is giving out. rARIS, December 30.—The vin ordinaire is giving out. It has already risen nearly 60 per cent. in price. This is a very serious thing for the poor, who not only drink it, but warm it and make with bread a soup out of it. Yesterday, I had a alice of Pollux for dinner. Pollux and his brother Castor are two elephants, which have been killed. It was tough, coarse, and oily, and I do not recommend English families to cot elephant as loon as they can not be for or mutan. Maw of cat elephant as long as they can get beef or mutton. Many of the restaurants are closed owing to want of fuel. They are the restaurants are closed owing to want of fuel. They are recommended to use lamps; but although French cooks can do wonders with very poor materials, when they are called upon to cook an elephant with a spirit lamp the thing is almost beyond their ingenuity. Castor and Pollux's trunks sold for beyond their ingenuity. Castor and Folius a trumes sold for 45 fr. a lb.; the other parts of the interesting twims fetched about 10 fr. a lb. It is a good deal warmer to-day, and has been thawing in the sun; if the cold and the siege had con-tinued much longer, the Prussians would have found us all in bed. It is a far easier thing to cut down a tree than to make it burn. Proverbs are not always true; and I have found to my bitter experience of late that the proverb that "there is no smoke without a fire" is untrue. The Tupper who made it never tried to burn green wood .- Diary of the Besieged Resident, Baily News.

COMPOSITION AND QUALITY OF THE METROPOLITAN WATERS IN DECEMBER, 1870.—The following are the returns of the Association of Medical Officers of Health:—

Names of Water	olid lon.	2698	Nitro	ogen.	Hardness.		
Companies.	Total S Matt	Oxygen quired Organ	As Nitrates &c.	As Ammo- nia.	Before Boiling.	After Boiling	
Thames Water Com	- Grains	Grains.	Grains.	Grains.	Degs.	D. gs.	
Grand Junction	. 90:33	0-089	0.110	0.006	15.4	4-3	
West Middlesex	. 19 17	0.062	0.110	0.001	15.0	3.6	
Southwark & Vaux					1		
hall	. 19-47	0:073	0.110	0.004	15.0	4.0	
Chelsea	. 19:40	0:146	0.110	0.002	14.9	4'0	
Lambeth Other Companies,	. 21:17	0.090	0.122	0.002	15'4	4-2	
Kent	. 26:60	0:004	0.175	0:000	90:0	5.6	
New River	20'69	0.021	0.001	0.001	15.5	3.8	
East London ,	21.11	0.041	0.132	0.003	15.6	4.2	

Note.—The amount of oxygen required to oxidise the organic matter, subrites, etc., is determined by a standard solution of permanganate of polash acting for three hours; and in the case of the metropolitan waters the quantity of organic matter is about eight times the amount of oxygen required by it.

the quantity of organic matter is accust eight times are assume to realize the control of the co

H. LETHEBY, M.B.

NEW BOOKS, WITH SHORT CRITIQUES.

Clinical Instruction in Insanity a Necessary Element in Clinical

Instruction. By JOHN SIDBALD, M.D.

••• An earnest and urgent appeal to common sense and humanity. It is true that, as a rule, the Medical student, during the whole course of his studies, never sees a case of insanity, and is not even instructed in the theory of the disease or malady, and yet he may be called upon in the very first days of his practice to diagnose and treat the mentally afflicted may have to determine whether the patient has to be deprived of his liberty or is safe to be kept in society. We commend Dr. Sibbald's pamphlet to the serious attention of the Profession and the public.

The Animals' Friend Almanac.

a A sheet almanac, issued by the Society for the Prevention of Cruelty to Animals. Illustrated by several admirable and striking engravings of the heads of animals.

The York Star contains the comment of an able paper "On the importance of Combining the Physical with the Intellectual in the Education of Youth," by a patient in the "Retreat."

NOTES, QUERIES, AND REPLIES,

Be that questioneth much shall learn much .- Bacon .

- A Men is almost too savage; we suspect in some cases atrophy of certain
- organs exists, and not hypertrophy. A Subscriber.—The books were sent to all registered Medical men. Write to Dr. Pitman, the Registrar of the Royal College of Physicians.
- Dr. Drysdale,-The existence of over-population is an assumption. There may be too many persons in one place, and for this the remedy is dispersion. The real wealth of a country is its people. There is plenty of subsistence, but unequal division. Where poverty and starration prevail, it is through want of energy, or want of economy, or, in some instances, oppressive laws.

C.—The marriage of relatives intensifies family peculiarities, good and bad. We believe that a scrofulous family breeding in-and-in might be exterminated; the same with weedy persons, with large heads, tendency to rickets.

Jan. 14, 1871.

- Dr Miner.-By a recent regulation of the English Post-office, a newspaper must be unstitched, otherwise it will be charged in transmission thro the post as a book packet. Our whole edition is, therefore, unstitched. The enclosure came safely to hand,
- Q. asks whether an account was ever rendered of the funds of the late Workhouse Infirmaries Association, and whether any balance remains. He should apply to Mr. Ernest Hart or Dr. Anstie.
- R. W. will find the information he requires in Weightman's " Laws of the Medical Profession."
- Preston .- A mere canard, written by some foolish and spiteful person in the town. We shall have something to say on the subject next week. There is another side to the picture.
- T. B., Leeds .- The author is a gentleman in large practice in one of the Midland boroughs, and Surgeon to the Hospital there.
- Nimmo.-The fee should not exceed five guineas. A. B. C .- It is a most point; but the facts appear to be in favour of its contagious character. The subject is treated of fully in Copland's " Dic-
- tionary of Practical Medicine." Calumet. - A Poor-law Medical Officer can claim the coroner's fees (if duly summoned under the provisions of the Medical Witnesses Act) in respect
- of evidence given at an inquest held on the body of a pauper who has died in a workhouse, not in the Hospital building. A Purtner.-The gross receipts may convey no adequate idea of the net
- profits; these can be ascertained by proper examination, and the absolute value of the partnership determined. The gentleman alluded to is highly respectable, and would no doubt carry out the negotiations to the satisfaction of all parties.
- Querist, Middlesborough-on-Tees.-The election of Dr. McCuaig as Surgeon to the North Riding Infirmary, to say the least of it, was most irregular; and if the laws of the institution are of any value, it is illegal. Let the facts speak for themselves. Dr. McCuaig retires from practice at Middiesborough, and resigns his appointment of Surgeon to the Infirmary. The vacancy caused by this resignation is filled up. After a time, Dr. McCuaig returns to the town, and commences to practise his Profession. He makes application to the Governors of the Infirmary at their ordinary quarterly meeting "to be placed on the Medical Board." A motion to so place him is carried by a small majority of a very small meeting, subject to the protests of some gentlemen present. Now, then, let us examine the laws which are supposed to regulate the proceedings connected with the Infirmary. Here is the law relating to the election of Surgeon to the Institution :---
- 5.1V.—That Preserver a vanary shall occur in the office of Physicism, Surgeon, Tracarrer, House-Surgeon, Serestar, or Chaplain, the House Committee shall direct a special court to be summoned for silling up the vanary shall have been declared by the House Committee; and that no election shall take place sooner than twenty days from the date of the option of the committee; and that no election shall take place sooner than twenty days from the date of the Appendix, No. 111, 117.
- It would naturally be thought that, with such a law before them, the quarterly court would have hesitated before electing Dr. McCuaig. Is it in force, or is it in abeyance? If in force, whatever sophistry may be advanced to the centrary, the election is illegal; if in abeyance, the sooner all law is dispersed with the better. It may be said there was no "vacancy," and the court had the power of adding to the Medical Board. Grant this, and you have a fine specimen of that "tyranny which works with the machinery of freedom."

MARMAGE OF COURSE.

AN THE ENTRO OF THE MEDICAL THREE AND GARTIE.

Although now of the MEDICAL THREE AND GARTIE.

Although the "query" of an "inquirer" in the last number of
the Medical Times and Gastie. "Inquirer" asks—"If two brothers
married two siders, would a married per selection. The property of the Medical Times and Gastie. "Inquirer" asks—"If two brothers
married two siders, would a married between the religion of the property.

I think the reply is, that whatever organic disease existed in the respective
families would then be doubly intended in the children of the consists.

I think the reply is, that whatever organic disease existed in the respective
that such a marriage would probably be productive of marked deterioration in off-pring 1" This, I take, it, must depend upon the proof of whether
any or what organic disease existed in the respective families of the

Although this is a theror of me. we. "

Although this is a theror of me. we. "

any or what organic disease existed in the respective families of the organic organic disease. As a theory of my own, I was gradied to find, only the other day, that it was corroborated by the options of an eminent Medical man of whom I was making inquiry with a view to information on the subject of contanguincous marriages. He started with the broad proposition of the control o

led to the Levitical prohibitions. At all events, it is an historical fact that this intermarrying continued unchecked for many generations of extreme

this intermarrying continued unchesses our newsy a:

The reply of my Medical informatic was, that as it that time man was.

The reply of my Medical informatic was, that as that time man was.

The reply of my Medical informatic was, the most the immension of the most the informatic was to the most the informatic was the informatic was the most them with the world was a basily as a offiguring at if they were in no despece related, but that, as benity as offiguring at if they were in no despece related, but that, as benity as offiguring at if they were in no despece related, but that, in intensitied it. If this be correct, the deterioration of the officiency of a consumption marriage is, press, and without reference to any organic disease in the parents, a mere vulgar error.

I am, &c.

W.

COMMUNICATIONS have been received from

OMMUNICATIONS have been received from—
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BOOKS RECEIVED-

BOOKS RECEIVED—

The Naral Medical Service: its Present State and Prospects; with Suggestions for 1ts Improvement, by Preierisk James Brown, M.D. Lond, exciton, by John Shibald, M.D. Bellan-Indian Medical Gasette, December, 1670—Scarlet Fever for Ten Years (1907-10) in the Parish of St. Groupe Blacoversquire, by Dr. C. J. B. Aldes—Phy. Workinster Review, January, 1671—Ruilwaite's Retropet of Medicine, July to Devember, 1970—The Management of Infancy, Physiotoxical and Moral, Devember, 1970—The Management of Infancy, Physiotoxical and Moral, Michael Company, 1671—Ruilwaite's Retropets of Medicine, July to Devember, 1970—The Management of Infancy, Physiotoxical and Moral, Michael Moral, 1971—Resident of Infancy, Physiotoxical and Moral, Michael Moral, 1971—Resident of Infancy, 1971—Parish Moral, 1971—P

NEWSPAPERS RECEIVED-

New York Medical Gazette-Medical Press and Circular-Nature-Pharms centical Journal-The Malvern News-Woodhull and Claffin's Weekly.

APPOINTMENTS FOR THE WEEK.

January 14. Saturday (this day).

Operations at St. Bartholomew's, 1\(\frac{1}{2}\) p.m.; St. Thomaw's, 0\(\frac{1}{2}\) a.m.; King's, 2\(\frac{1}{2}\), m.; Charing-cross, 1\(\frac{1}{2}\), p.m.; Royal Free, 2\(\frac{1}{2}\), m.; Hospital for Women, 9\(\frac{1}{2}\) a.m.; Royal London Ophthalmie, 11\(\frac{1}{2}\) a.m.

16. Monday.

Operations at the Metropolities, assuming a p.m.; St. Mark's Hospital for Dissease of the Rectum, a p. m.; St. Meter's Hospital for Dissease of the Rectum, a p. m.; Horiza Hospital for Stone, 34 p.m.; Royal London Ophthalmia; it am, Royal London Ophthalmia; it am, Marica L. Sovietre of Lorono, 58 p.m.; Dr. Morell Markensie will eshibit dictability englished by the Carpeting of the Control of the Carpeting of th

17. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopædie, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Ophthalmie, 11 a.m.

ANTHROPOLOGICAL SOCIETY, 4 p.m. Anniversary.

Avinziolololical Society, 4 p.m. Anniversity, 10 p.

ROTAL INSTITUTION, 3 p.m. Dr. Foster, "Nutrition of Animals."

18. Wednesday.

Operations at University College Morphala 9 p. m.; 8t. Mary's, 14 p.m.; Middless, 1 p.m.; London, 8 p.m.; 8t. Marthonoseva, 14 p.m.; Oreal Middless, 1 p.m.; London, 8 p.m.; 8t. Marthonoseva, 14 p.m.; Orbalanis, Sondward, 14 p.m.; Orbalanis, Sondward, 15 p.m.; Orbalanis, Sondward, 15 p.m.; Horpal London Ophthalmic, 11 a.m. principles (by Ar. Wood), 17 p.m.; Horpal London Ophthalmic, 11 a.m. principles (by Ar. Wood), 17 p.m.; Horpal London Ophthalmic, 11 a.m. principles (by Ar. Wood), 17 p.m.; Morpal London, 18 p.m.; Dr. Sutton, 18 p.m.; Morpal London, 18 p.m.; Dr. Sutton, 18 p.m.; Morpal London, 18 p.m.; Dr. Sutton, 18 p.m.; Morpal London, 18 p.m.

19. Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmic, 1 p.m.; Royal Orthopedic, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m.

Hanveian Society, 8 p.m. Dr. Farquharson, "On some Forms of Pneumonia." ROYAL INSTITUTION, 3 p.m. Dr. Odling, "Davy's Discoveries."

20. Friday.

Operations at Westminster Ophthalmic, 15 p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m. ROTAL INSTITUTION, 3 p.m. Dr. Tyndall, "On the Colour of Water, and on the Scattering of Light in Water and in Air."

VITAL STATISTICS OF LONDON. Week ending Saturday, January 7, 1870.

BIRTHS. Births of Boys, 1173; Girls, 1195; Total, 2368. Average of 10 corresponding weeks, 1860-69, 2160-1. DEATHS.

		Males.	Females.	Total.
Deaths during the week		94/2	926	1828
Average of the ten years 1860-69		787'8	598'6	158614
Average corrected to increased population		***	***	1745
Deaths of people above 90	٠	449	***	***

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1861.	Small-por.	Measles.	Scarlet Fever.	Diphtheria	Whooping- cough.	Typhus.	Enteric or Typhoid) Fever.	Simple continued Fever.	Diarrhose,
West		458125	9	13	16	1	4	1	4	2	5
North	***	618210	16	1	34	1	5	2	6		2
Central	***	383321	6	3	9		6	1	2	8	3
East	***	671158	36	8	13		15	4	2	2	9
Bouth	***	773175	12	9	40	2	6	3	4	2	7
Total		2903999	79	34	112	4	36	10	18	9	19

ME	CE	OR	OLC	OGY.					
From Observations	at	the	Gree	ensoich		Boerra	tos	y.	
fean height of barometer								29:809	in.
fean temperature					÷			31.1.	
lighest point of thermometer					٠			45'9°	
owest point of thermometer					٠			19.2	
fean dew-point temperature	٠				٠		٠.	26.7	
eneral direction of wind .	٠.				٠	8.8.E.,	ъ.	0.07 in	.B. W.
Vhole amount of rain in the w	ce				٠			0.04 18	١.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, January 7, 1870, in the following large Towns:-

Temperature of Air

	187	che	du	du.	OI A	m (tr	anr.,	(Cent.)	1	
Boroughs, etc. (Municipal boun- daries for all except London.)	Betimated Population middle of the year 187	Perions to an Ac (1671.)	Births Regutered the week ending J	Deaths Registered the week ending 3	Highest dunng the Week.	Lowest during the Week,	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3256469	41'8	2369	1826	45.9	19:2	31.1	-0.50	0.07	0.18
Portsmouth	125464	13:2	73	45	46:0	19 2	33.8	0.15	0.15	0.48
Norwich	81787	10.8	69	57	43.0	18.0	29.5	-1.26		0.53
Bristol	173364	87:0		129						
Wolverhampton	74439			53	45-9	419		~ 1.20	0.18	0.48
Birmingham	378574	48:3		203		13.0				0.28
Leienster	101367	31.7	75		44'5	9.7	28 4		0.82	0.63
Nottingham	90450			59		11'0	27:6		0.08	0.50
Liverpool	526225			566	18.0	19:1	32.8	0:45	0.21	0.94
Manchester	379140		232	279					0.53	2100
Salford	123651	83-9		73	47'0	10-9	30.0	- 1'11	0.52	
Bradford	148030				4000	67		- 2 44	0.19	
Leeds	266108				48.0	7.0	27'6	-178	0.24	
Sheffield	255247	112	191	138	47.0	10%	20 0			
Huli	135195	38'0		49		***				***
Newcastle-on-Type	103037	25.2			40.0	13:0	3014	-0:49	0.10	0:05
	179944	40.6	124	122	45 0		37.6		1-90	
Edinburgh	477627	94:3	423	350			35.4		2.19	5:56
Glasgow Dublin (City, etc.+)	822321	33.1	146	991		28.0		3:44		3 30
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Berlin-Week end-	-			1						

ing Dec. 31 ... 622087 68 Berlin—Week end-ing Jan. 7 800000 52

The actual numbers of the population of these cities and boroughs, as enumerated at the Censua in April next, will probably be available before the middle of the year, and will then be substituted for these estimates.
 † Inclusive of some suburbs.

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Ciers, personer, returning the single person and allows and or neutralise Fever-poise in Beds or in the Sick-chamber.

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The abount datements that have recently appeared in Medical and other Journals respecting the constituents of CALGROOVER (such analyzis differing widely), 3. T. Daversors is compiled to further CALTION the Frederson against using any Compound under the name of Calbrodyne but the genuine, which also no has guited such extraordinary relderity, as above.

The wonderful efficiency of Cherodyne being universally acknowledged, it must be evident to all that the assumption of the name to any other Compound than the Genuine is not only dishoised in obtaining money under false pretences, but till more unprincipled by injuring the health of experience of from the genuine; and this melandood pricrumstance has no effect in restraining those hearties proceedings.

I require to use a considerable quantity of Calerodyne in cases where no other medicine is of the least avail; and my object in wishing a supply from your own exhibitance is that I am frequently deceived by getting a Sparious article from other places, although I never order anything but the gestules Brown's Calerodyne.

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"Lord Francis Controllans, who, this time last year, longht some of Dr. J. Collis Browne's Cherology from Mr. Davenport, and has found in most configuration, who, this time last year, longht some of Dr. J. Collis Browne's Cherology from Mr. Davenport, and has found in most wondern controlland to the college of Physicians that he received a departer from Her Majority's Consul at Manilla, to the effect that Cholern has been rapting fearfully, and that the OALY remedy of any service was GILLOGIOTNEE"—Ges "Lancet," int December, 1864.

THE WAR-EXTRACT OF LETTER.

I have for some years need Dr. Collis Browny: Chickoptrys and have a high opinion of it as a schaltwe. I have first the first the confirmation of the same relationship or the relationship of the relationship of the same relationship or the relationship of the relationship of the relationship or the relationship of the relationship or the relationship of the r

To Mr J. T. Davenport, 33, Great Russell-street, London.

CHARLES MADDEN, Retired Surgeon, Bengal Army.

OAUTION.—Vice-Chancellor Sir W. Page Wood stated that Dr. J. Collis Browne was undoubtedly the Inventor of CHLORODYNE, that whole story of the Defendant, Freeman, was deliberately untrue, which, he regretted to say, had been sworn to.—See "Times," 13th July, 1864.

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ORIGINAL LECTURES.

LECTURES DELIVERED

PHYSIOLOGICAL LABORATORY OF UNIVERSITY COLLEGE.

By J. BURDON-SANDERSON, M.D., F.R.S., F.R.C.P.,

Professor of Practical Physiology.

LECTURE II .- ON LEUCOCYTES-(continued). Various methods have been adopted for the electrical stimulation of living contractile corpuscles. The most marked effects are produced when discharges from Leyden jars are employed. It is, however, much more convenient to use induced currents; but the apparatus must be so arranged that the effects resemble those of statical electricity. Hence, of the two currents which are respectively produced in the secondary coil at each opening and breaking of the primary currents, the direct, which occurs at the opening, and which is of shorter duration but greater

as the opening, and when is of source the account of the continensity, is preferable.

In operating on leucocytes, or, indeed, on any other contractile eed, a single shock must be given at a time. For this purpose the primary current must be opened in the manner described at the end of last lecture, and the operation repeated or not at the interval of a few minutes, according to the effect produced. A single shock with the secondary coil pushed up so as to surround the primary one, produces an appreciable change in the appearance of the corpuscles, the outline of which seems to become harder and more distinct, while the processes are retracted. After one or two more shocks it assumes processes are retracted. After one of two most at this point the spheroidal form, as shown in δ , Fig. 3 bis. If at this point

F10. 3 BIS.







ia. 3 nis.—a, an amorboid leucocyte; δ, a dead leucocyte; c, a leucocyte which, after having been acted on by the electric stimulus, has begun to resume its movements.

the excitation is discontinued, it begins to recover, but does not re-assume the vaguely defined outline and flimy appearance which it had before. The processes are no longer accuminated, but rounded or knobby, as in c. If he shocks are repeated, and more particularly if the corpustes are subjected to them, and more particularly if the corpustes are subjected to them to the comparent of the processes are not only to the comparent of the compare larger and more transparent, while their nuclei and the coarser granules they contain come into view; the effect produced being such as to remind one of that of very dilute acetic acid.

OBSERVATION VI.—ACTION OF THE ELECTRICAL STIMULUS ON OTHER LIVING CELLS.

The action of the electrical stimulus on leucocytes may be illustrated by comparing it with the phenomena which attend the excitation of other cells by the same methods. The most instructive object of observation is the cartilage cell partly because it stands in so close a relation to the connective-tissue corpused that it may be inferred that the connective-tastic corpused that it may be inferred that the physiological properties are the same, but more especially properties are the same, but more especially studied in the living state. The thin ensiform cartilege easily studied in the living state. The thin ensiform cartilege of the freq, and the cartilages of the shoulder-girdle of the newt, are admirably adapted for the purpose, and have been studied by Heidenbain and Rollett.

sended or recent and man deduct.

If the control of the control of the control of the shoulder gitted of the price two the best objects. Any of these soulder-gitted of the price two the best objects. Any of these cartilages may be examined, even by high powers, almost without any preparation. If a new it sued, all that is necessary is to divide the integument covering the thorax in front by an incision in the middle line. The sharp edges of cartilage on either soin in the middle line. The sharp edges of cartilage on either side project into the wound, and may be at once snipped off and transferred to the under side of the cover-glass of a putty cell, on which a drop of frog's serum, or, still better, of aqueous humour, has already been placed. The cartilage cell thus

Vol. I. 1871. No. 1073.

observed is very unlike the same structure as usually seen in the dead state. Like the living lemocyte, it consists of slightly cloudy grey protoplasm, which, if it does not entirely occupy the carriy of the matrix which belongs to it, at all every appears to do so, for there is no indication of space between it and the inner surface of the capsule. Fig. 6.

The nucleus appears as a faintly, but at the same time clearly, defined spheroid, in addition to which a few fat granules can also be distinguished.

We now electrise the bit of cartilage by placing it between the tinfoil points, and sending through it a few opening shocks. The changes few opening shocks. The changes observed are similar to those we have observed are similar to those we have already seen in the leucocyte. The protoplasm mass becomes much more distinct; its outline, which was before lost in that of the hole it occupied. It is now hard, and, if the excitation is continued, we shall have no doubt whatever that it has contracted to a much smaller size than before, and, further, that it has assumed an irre-gular outline, as if the contraction were unequal. So far the phenomena are the same, but there are some important points of difference. The important points of difference. The cartilage cell, when it has once abrivelled up, is no longer capable of recovery. If, indeed, we except the psculiar bulgings of its contour, its policies. the peculiar bulgings of its contour, its condition resembles very much that of cartilage cells which have died of themselves, instead of being killed suddenly by electricity. All dead cartilage cells appear to occupy less space than they do in the living Fig.

state.

In accordance with the plan of these lectures, I will abstrain from drawing any inference from the facts when the considering any cons

we have been considering, excepting in so far as may be neces-sary to bring them into relation with each other.

We have seen that, to all appearance, a living leucocyte is a

mass of transparent, homogeneous material; that it may draw itself together partially or completely—either shrivelling itself into a spheroid, or extending itself in one direction by contracting in another; that the movements thus produced are rendered more active at higher temperatures than at lower, but that if the warming is carried too far they cease by the out that it the warming is carried too list they coses by the production of a permanent state of contraction; that so long as a leucocyte is in relation with consistent surfaces, it is capable of locomotion, but that in liquids it has no such power, but obeys the law of gravity implicity; that it is endowed with the faculty of taking into its interior such granules or corpusthe tacuty of taking into its interior such granules or corpus-cles, of a size not greater than itself, as it may happen to come into relation with; and, lastly, that it is singularly dependent on surrounding conditions for the maintenance of its vital properties—in other words, that its life cannot continue even for a very short time at temperatures or in media which differ from those which are natural to it. Such are the facts A words were a superior to the continue of t

Such are the facts. A very few words will be sufficient to point out their practical—i.e., pathological—bearing. You already know that leucocytes are to be found in a great many different situations, and under a variety of circumstances, in the living body. We have studied them principally in the blood, but we have also seen them (in Professor Lortet's experiment) escaped from the blood-stream in countless myriada into the cavity of from the occountream in countress myradas into the cavity of the swimming-bladder which we inserted under the skin of our rabbit. This liquid, you well know, is called pus, and the process by which it is produced is called suppuration. Now, from this and other similar facts, it was for a time supposed that supprastion always depends on emigration of the blood leucocytes; and if we were to look merely at this one result, we might easily believe so. At the beginning of many acute inflammations, the formation of pus is so rapid that we cannot be be the beginning of made and the best that the control of the best that the bes hesitate to admit that the leucocytes have come out of the blood; but in the later stages we always find the plainest indication that the corpuscles are formed in the tissues. To prove this, there is no experiment which is more satisfactory than the one I have just referred to; for while, on the one hand, the crowding of the bladder with corpuscles, in so short-



To 6.—A living cartilage cell The nucleus is not so granu-lous as it ought to be, but is other respects the represen other respects the station is true to nati

Fro. 7.



a period as twenty-four hours, affords evidence of locomotion which, to my mind, is scarrely open to question, the production of innumerable young leavecytes from masses of protoplasm, or, as Dr. Beale cells it, "germinal matter," which is derived from the surrounding connective tissue, is still more certain.(a)

ON THE COLOURED BLOOD CORPUSCLES.

OBERTATION VII.—D. NORMA'S EXPERIMENT.
Before coming here, you have already learnt that the blood corpuscles are greenish-yellow disc, of circular or oval control; that they owe their close the horizontal control and the oval corpuscles of repulse are uncleased; the circular discs of man surfaces of the latter are not flat, but hollow, and that the corpuscles are consequently thinner in the middle than at the corpuscles are consequently thinner in the middle than at the microscope, next to the form, the most striking fact which presents itself is the tendency the corpuscles have to stick tendency is not known; but an experiment has been lately tendency is not known; but an experiment has been lately indicated by Dr. Norris, of Birmingham, which deserves our attention as a help towards understanding it. This experiment has for its purpose to show that, in order to account for the phenomenon in question, all that is necessary is to assume that the corpuscles, when in the living state, attract sech other, and that made in a variety of ways, the best being that which the author himself recommends.

Floating in this basin are a number of little corks, shaped, like blood corpusedes, into circular disse. They are about half an Inch in diameter, and a tenth of an Inch thick. To prevent them from swimming horizontally on the surface, each of them is weighted near one edge by inserting into it a little plug of lead. By this contrivance the surfaces are kept vertical, while in other respects their movements remain free. The liquid in which they float is not water, but petroleum; but the little corks, before they were put into it, were thoroughly wetted. Consequently, they attract each other, just in the same way as the surface of water on the surface of our the surface of water on the surface of the surface of the surface of the leave then to themselves. They at once coalesce, and soon you see them forming themselves into routestus. They are drawn together (if I may so express myself) because they have a liking for each other, and in beight of the colors, and an objection to the liquid in which they float. They

form revieus because they are disc-shaped.

John Presents occurse they are consessingles.

John Presents occurse they are the second property interactive one, but, as I aid before, it is no men in panion of the phenomenon, for we do not, as yet, know sely the corpusedes blood which have just been removed from the body attact each other, whereas those of blood which has been deprived of its fibrine by agitation have no such tendency. Within the vessels fibrine by agitation have no such tendency within the vessels. When, however, a living tissue allowed its quite motionless. When, however, a living tissue allowed the control of the companion of the control of the

OBSERVATION VIII.—Professor ROLLETT'S EXPERIMENT.
We shall next give our attention to the apparently homogeneous material of which the corpuscle consists. Is it really
of the same substance throughout—a mere lump of transparent

of the same substance throughout—a mere sump or sransparent.

(a) The mention of the term 'genemia natter' suggests to an another practical application of our subject, even more direct than that we have precised application of our subject, even more direct than that we have precised application of our subject, even more direct than that we have precised to the subject to the sub

matter—or is it a vesicle? We shall find that neither of these alternatives expresses the probable truth. One of the grounds for adopting the former view is, that the corpused is as wonderculy extensite that it can be drawn into lengths or broken up mechanically into the smallest bits; and that, when this is done, the material of which each thread or particle consists present aboving this. The best is that recommended by Professor Rollett, the results of which you see here.

Defibrinated blood has been introduced into glycerine jelly (which will keep, for a short time, liquid at the temperature of the body), and allowed to solidity. If we place a section of the mass under the cover-glass, and examine it, we shall find the corpuscies assume the most remarkable appearance. Some retain their original form, but most are drawn out into prolongations of various lengths, or are otherwise misshapen.

Another way by which the corpuseles may be comminuted in by introducing a very small drop of fresh blood under a cover-glass, and then suddenly lifting it off and replacing it. The effect of this operation (especially if once or twice repeated) is to break up many of the corpuseles into fragments of the producing of the corpuseles into fragments for models.

Further, when the blood corpuseles have been squeezed out of shape by mechanical agency, they show a remarkable tendency to return to their original form, and hence must be theroughly elastic. It is not difficult to show this out of the body, to the control of the control of

We have next to show that, even though we admit this notion as proved, it does not follow that the corpusel is homogeneous. On the contrary, there are strong grounds for thinking that it consists of two substances—one of which is concrete, the other in a state at all events approaching fluidity—the fluid not being enclosed in a cavity, but pervading the expressed. Thus, Professor Brücke conceives the blood corpusels as a porous structure of colourless byailne substance (accid), the pores of which are occupied by a coloured living puly (coold). Professor Stricter of colourless pulline substance (accid), the pores of which are occupied by a coloured living puly (coold). Professor Stricter entertains a similar view as regards the colourless part, but differs from Brücke as to the of the orthogeneous the colourless part, but differs from Brücke as to the of the orthogeneous the colourless are, but differs from Brücke as to the often of the colourless of the amphibis, they present an appearance as if the colouring matter were retracted from the circumference and collected round the nucleas, sometimes surrounding it as a simple envelope, at others stretching from it in rays which we are now about to properly.

OBSERVATIONS IX. AND X.—PROFESSOR BRUCKE'S ŒCOID AND ZOOID.

The first experiment (Brücke's) consists in the addition of a solution of boracia and (2 per cent), to fresh attendant blood —that of the newt being preferable. At first, the contour of the corpuselse changes, more or less, from oral atwards circular, while the nuclei become eccentric. Soon the colouring matter gathers itself round the nucleus in the manner already indicated; so that the nucleus looks as if it were stained with or without assuming a stellate form. Professor Stricker's ex-



Fro. 6 (diagrammatic, copied from Rollett).—Optical section of blood corpusel of usert, absoring the section of blood corpusel of usert, absoring the section of blood corpusel of usert, absoring the when produced by carbonic asied gas, after pervious dilution with water. This form is observed under other circumstances as a produce of feeble and repeated to one; or solution of chlorde of sodition, or parts to one; or solution of chlorde of sodition, or aparts to one; or solution of chlorde of sodition, or aniphate of social, has been added, is subjected to rais is gathered round the nucleus are found in the neighbourhood of the positive—is, said—pole, See Rollett, "Universichangen aus dem Institute für Thysiologie und Histologies." Lorgon, 1906, p. 1

(b) Brücke, "Ueber den Bau der rothen Blutkürperchen." Wiener Akad. Berichte, bd. Ivi., 8. 79. Stricker, "Mikrochem. Untersuch. der rothen Blutkürperchen." Pfügeres Archivi., 1, 599.

periment is not quite so simple. We require the movable stage which we employed at the last lecture for studying the effects of temperature on leucocytes. This time we use it, not merely for the purpose of applying heat to our preparation, but in F1G. 3.



10. 3.—Prof. Stricker's warm stage. In the vossel a n c the water is maintained at a constant level (indicated by the dotted line) and at boil-lay descentration, a, amply their, s, water their, c, the beading to the generation, a, amply their, s, water tuber, c, the beading to the variety of the constant of more the constant of t

order that we may subject it to the alternate action of moisture and gases. You observe that there are two brass tubes, which project from the front of the box, and end in vulcanite connecting tubes, H and L. Each of these tubes communicates by necting tubes, it and I. Land of these tubes communicates by a separate opening with the central cavity, which we used before as a moist chamber. The vulcanite tube, ii, ends in a glass T tube, one branch of which leads, by a delivery-tube, to a simple apparatus for disengaging carbonic acid gas, the other to a mouthpiece. Both of these tubes are furnished with proper clips or pinch-cocks, by means of which the experimenter may either blow in atmospheric air or admit a stream of CO₂. The apparatus we use is of the simplest construction. It consists of a common bottle, with a perforated cork, to which the delivery-tube is adapted. The bottle contains marble in fragdelivery-tube is adapted. The bottle contains marble in frag-ments, and has a small hole in the bottom of it. When it is plunged into a larger vessel containing dilute hydrochloric arid, the said liquid enters by the hole, and continues to act upon the marble so long as the stream is unobstructed; but as secon as I leave hold of the ellp, it is driven out of the bottle by the accumulating gas, when, of course, the action ceases. A vashing bottle abould be interposed between the bottle and the T tube.

The experiment, when made in a somewhat different form, is of great interest in relation to the changes which occur in respiration. Our present object, however, is to learn from it some facts as to the constitution of the blood corpusele, by observing the effects of various degrees of dilution with water -first in common air, and then in an atmosphere of carbonic acid gas.

A drop of water having been placed, in the same way as before, on the floor of the chamber, an extremely thin layer of blood is carefully spread over the surface of the cover-glass, which is them inverted and put in its place. The principal facts to be observed are the following:—I. By carefully warning the object, so as to evaporate some of the water, the blood map the object, so as to evaporate some of the water, the blood map to diluted so gradually that the various stages in the reaction may be studied with the greatest precision. In the first stage—that which is attained when the warming has been carried just far enough to cloud the dry part of the cover-glass -the corpuscles look paler, but are not altered in any other respect. The nucleus is still invisible, for water has no special action upon it. If the dilution is carried further, special action upon it. If the dilution is carried further, the colouring matter is discharged, while the nucleus re-tended to the colour special colour special colour special of passing carbonia self gas through the chamby difference or linearing carbonia self gas through the chamby difference cording to the degree of dilution. If the drop of blood is not diluted at all, the corpusale is entirely unaltered in shape and appearance. The change of colour, which, as we shall see on a future occasion, is produced, cannot be appreciated without the aid of the spectroscope. But if the blood has been previously diluted, there are remarkable changes, both of form and viously diruted, Liere are remarkable changes, dots of rorm and appearance. The corpuseles, which was previously an oval disc, is now, more or less, spheroidal, and its nucleus, which was before indistinguishable, comes prominently into view as a granulous-looking object. In the second stage of dilution, the precipitation which appears to be the cause of this remarkable precipitation which appears to be the cause of this remarkable Change is much more complete, and is not limited to the nucleus.

The whole of the colourless area which represents the corpuscle becomes granular.

3. Either effect is quickly removed on the substitution of common air. In other words, the precipitate produced by carbonic acid gas is redissolved in oxygen.

4. When the first degree of dilution is employed, the observa-tion may be repeated in the same quantity of blood several times. Sooner or later, however, a point is reached at which the precipitate becomes permanent, and in this case many of the corpuscles assume an appearance which corresponds exactly with that which we saw before in blood treated with boracio acid solution; the granular entourage of the nucleus extends in radiating lines towards the circumference of the corpuscle (see Fig. 8).

What is the nature of the coloured precipitate? We shall see, when we come to speak of the coagulation of the blood, that an albuminous compound exists in the blood corpuscles (fibrino-plastin, paraglobulin), of which it is the characteristic peculiarity that if a stream of carbonic acid gas is passed through a dilute solution of it, it is thrown down as a granular precipitate, which can be redissolved in oxygen. As there is no other immediate principle in the blood corpuscle to which this reaction fits, we need have little hesitation in concluding that the precipitate (or, to use Brücke's language, zooid), consists of paraglobulin in union with colouring matter. That it is really contractile, or, in any other sense, more alive than the rest of the corpuscle, is at present rather matter of speculation than of fact. All that can be established in this direction seems to be that it differs from the rest of the corpuscle (the escoid) in being much more liable to alterations of form and appearance -for it is to it that (if I may be allowed to use a word much more current in its German than in its English form) the extreme lability of the coloured corpuscle is referable. You will find this statement fully borne out by the experiments we have still to make.

OBSERVATION XI.—Dr. ROBBERT'S EXPERIMENT.
The coloured constituent of the blood corpusele (the zooid) are consured constituent of the shoot corpused (the zooid) may be demonstrated in a very striking manner by a method discovered some years ago by Dr. Roberts, of Manchester, which we practiced in the histological part of the course, (c) A drup of solution of tannin (about four grains to the ounce) is placed on a slide, and then a droplet of blood taken fresh from the finger is added, and the two well mixed with a glass rod, in the usual way. The effect produced is most surprising; indeed, at first sight, altogether incomprehensible (see Fig. 9). Tho corpuscle, which was before homogeneous, is divided into two parts, one of which has an irregular, but strongly-defined, hard outline, and is deeply coloured; the other is pale and colourless

indeed, all that can be seen of it is a faint circle, the diameter of which corresponds with that of a blood disc. The coloured refractive appendage presents considerable varieties, both of size and form. In one instance, it merely projects from the colourless spheroid as the cornea does from the globe; in others, the round knob is as large as the spheroid itself, and between these two there are all gra-dations. When the prominence is

seen in profile, it appears as if sepa- Fig. 9.—Action of tannin or rated from the remainder of the corpuscle by a sharply-defined line, so that it might be supposed to correspond to a membrane interposed between the coloured and the colourless substance. posed between the coloured and the coloured still more striking.

(e) "On the Effects of Magenta and Tannin on the Blood Corpuscion."

by the addition of solution of aniline, which stains the projec-

tions intensely.

There can, I think, be no question that we have again to do with Brucke's zooid, which seems under the action of the tannin to shrink together in such a way that it can no longer be contained in its spongy dwelling, and makes its exit en masse. That it is coloured by aniline, is easy to understand, if we suppose it to consist partly of a material akin to protoplasm, for all such substances in the dead state are ant to be stained by aniline.

OBSERVATION XII .- SOLUTION OF THE ZOOID.

It has long been known that, when water is added to blood in quantity, the blood corpuscles are apparently dissolved in the diluted LIQUOR SANGUINIS. This solution is, however, only partial; for, if the liquid is examined under the microscope, each corpusedo is seen to be represented by a colourless sphe-roidal residue. This residue was formerly described as the roidal residue. membrane of the corpuscle, rather in conformity to the notion that, being a cell, it must have a membrane, than because the structure in question possessed membranous characters. Wo now recognise it, not as a membrane, but as the porous struc-

ture already referred to as the occoid.

There are many other methods by which the zooid may be compelled to relinquish its dwelling without altering the density of the serum at all. So long ago as 1851, Dr. Chaumont discovered that the vapour of chloroform had this effect. That over the control of the country of the co covered that the vapout or construction mast this circuit of either acts in the same way, but not so rapidly. More recently, it has been shown by Rollett that the same effects are produced by freezing, as well as by electrical discharges and induction currents. In all of these cases (as you have already seen as regards some of them) the blood undergoes a remarksolul as regards some of them) the tool undergoes a rema-dable change of appearance. In the natural state, blood even in the thinnest layers, is perfectly opaque. You may judge of this by looking at it either by transparent light (as, e.g., in a very thin capillary tube) or by reflected light, apread out in a thin layer over the surface of a protein capsule. In the thin layer over the surface of a porceasin capsure. An amore former case the blood presents the appearance of a solid-looking band in the axis of a glass rod, in the latter it appears as a bright scarlet patch, completely concealing the white surface, and obscuring the light which would otherwise be reflected by it. If, however, the blood has been subjected to any of the processes above mentioned, the appearances it presents in the two cases are materially altered. The blood in the tabe looks bright, because it is translucent, whereas that on the porcelain looks as dark as if it were venous, because the corpuscles from which the light shone, reflected by countless convex surfaces, are now scarcely more refractive than the liquid in which they are immersed. In other words, blood in the natural state has are immersed. In other worus, 5100a in the instants seate the character of an opaque pigment, such as vermilion; where as in the altered state it resembles a lake, such as carmine—a fact which Rollett, who, as I have stated, has studied these changes with great exactitude, expresses by the terms deckfarbig and lackfarbig, as applicable to the former and the latter

respectively. The details of the methods we employ for demonstrating these reactions will be given in the next lecture.

LECTURES ON ANALYTICAL PATHOLOGY.

DELIVERED AT Sug's Bospital.

By W. MOXON, M.D., P.R.C.P., Assistant-Physician and Pathologist to the Hospital.

LECTURE XII.

ON THE VARIETIES OF TUBERCLE, AND THE RELATION OF TUBERCLE TO INFLAMMATION. Ar last lecture we called in question the constancy and value of the so-called miliary tubercle and its two varieties, grey and yellow. What I say, then, is this: that although some tubercles yazow. What's asy, then, is him: that allough some tuberful grey and pellueid, yet it is wholly futile and wrong to suppose that tubercles can be divided into yellow and grey; and to know this will greatly help us in considering the rights of the contest between those who have affirmed and denied their identity.

oeween those who have attribed and denied their identity.

The question in discussion in reference to grey and yellow,
or are they distinct kinds of tuberule? Those who hold them
to be stages, pointing to the fact that in the same lung you see
yellow tubercles, and below these, grey tubercles with yellow
centres, and yet below those, grey tubercles. They thought

this showed that in spreading down the lung from above, the news moved that in spreading down the lung from above, the newer tuberless are found commencing grey, and the older ones are growing yellow in their central older point, while the yet older ones above these are quite turned yellow. On the other part, the holders of the belief that the grey and yellow tubercless are different in kind, are driven or drawn to this belief by the greater impression they receive from a fact equally true— namely, that in examining different cases you find in some the tubercles all to have a prevailing vellow colour, while in some

tubercies an to have a prevailing grey colour, while in some other cases they have a prevailing grey colour. Now, in asking this question there are really three distinct questions asked confusedly; these are—1. Does grey tubercle ever turn yellow ? 2. Does grey tubercle ever not turn yellow ? ever turn yeans? 2. Does grey tuneraever not turn yeans?

3. Does yellow tubercle ever appear without being grey at first? Look carefully at each of these questions. An affirmative nawer must be given to each. No doubt grey tubercle does turn yellow at its centre. No doubt grey tubercle does not sometimes so turn yellow. And no doubt tubercle is sometiment of the property of the

times yellow from the first.

To understand how this is, we must see that there is another element, which those who treat the question as an alternative between stage and kind leave out of consideration. This perween stage and kind leave out of consideration. This element is the element of intensity. A yellow tuberelo may be an older tuberele than grey, or a different kind from grey; or it may be a more intense tuberele than grey. Let me dwell on these points a little more. I stated that the question asked in reference to these celebrated two forms of tubercle is practically this question: Is the grey a stage of the yellow, or is it a different kind

different kind?

Now, I want you to see plainly that there is yet another sort of difference, besides these of stage and kind, and that sort of difference in-difference in degree. We said that gray does soften into yellow, and that it does not soften into yellow; and that the yellow comes without it. Now, the first of these propositions would argue an identity of kind, but the second and third appear at first to militate against the supposition of third appear at first to militate against the supposition of identity in kind. Are they really opposed to the supposition of identity in kind? No; because the absence of a grey stage to low in the control of the control of the control of the control of different kind; just as in inflammatory lymph we get a plastic, epillucid, greypiah matter, called "pastic lymph," or a yellowish, opaque, solid or liquid substance, called "puriform lymph," or pna. We know in the case of lymph and pus that their dif-ference is one of intensity, because we are able ourselves experimentally to determine the pne. If I voi draw a thread experimentally to determine the production of one or other by graduating the intensity of cause. If you draw a thread soaked in croton oil through the testis of a dog, you get the production of pus, and some gangrene perhaps; if, instead of croton oil, you use a thread either clean or with some less croton oil, you use a threat either clean or with some level irritating substance on it, you get a less and less degree of in-flammation, according as it is a less and less irritating substance that you employ. And hence you recognise purulent and gangrenous as the extreme severity of inflammation, and the gangrenous as the extreme severity or innamnation, and the plastic as a lower degree of the same. Or, if you proceed another way in the judgment of these relations, you will find, on examining, that at the focus of irritation you get the pro-duction of pus, while a grey plastic lymph is produced further from the focus; so that, when the pus is fully formed, the grey plastic matter organises to form a sac, and encloses the pus

These facts prove beyond doubt that the plastic lymph in These facts prove oeyond douet that the plastic typing in inflammation is the same thing as, but lower in interactly of causation than, the pus. Now, we are not able to cause tubercles in this way directly by graduated degrees of causation, but analogy will. I think, convince us that the yellow and more pussible tubercle is an intenser one than the grey or more lymph-like tubercle. And there is more than analogy in support of this, for the severer and more rapid the tuberculisation of the patient, the more yellow is the tubercle found to be. tion of the patient, the more yellow is the tuberde found to be. And again, on quite another hand, the yellow tuberde is destructive of the substance it occupies to a greater extent than the grey, in which you generally still see remains of the tissue; while again, further, the elements of the grey tuberde, like those of plantic lymph, show more or less tendency to elongate and organise. If we are right in using this simple analogy, and rightly use it, it clears a way to remove all the

difficulty.

But if it be found that a yellowness supervenes on the grey But if it be found that a yellowness supervenes on the grey buberile as a result of oldsees, and that, on the other hand, a pure-orded by greynes, it may be fairly asked—Is the yellowness which comes from oldness of the grey, the same yellowness as that caused by severity in the originally yellow tubercle? This is a question of fact to be settled by observation. You will find, I believe, after examining specimens very carefully, that the yellowness of grey tubercle is a fatty degeneration of, and a breaking up of, the elements of grey tubercle. These elements you will find to be not quite the same as those of the elements you will had to be not quite the same as those of the originally sellow tuberels; they are often clongated and tending to form fibres, which may unite together and produce true tissue, so that some grey tubercies in this way reach a healed condition, the tissue so produced assimilating in the lung to the nature of pulmonary fibre, which is elastic. The little knot becomes horny, and the tubercle is then said to be "cornified." This drawing shows the result of such cornifi-"cornified." This drawing shows the result of such cation. The greyer the tubercle—that is, the more lymph-like—the more chance of this occurrence. I have already said —the more chance of this occurrence. I have aireauy sau there are all degrees of greyness toward yellowness. Now, the yellow change in this grey plastic fibrillating tubercle produces fatty degeneration of these more fibrillating tubercle produces fatty degeneration of these more fibrillating ethenent, at last breaking down to pulp, while the yellow tubercle is from the first composed of round cells with no plastic tendency to elongation, but very early becoming fatty. This tendency to elongation, but very early becoming fatty. This tendency to fattiness in either case is the cause of the yellowness; but in the grey tabercle the supervening fattiness comes more slowly over its longer-shaped and better-lived plastic elements, while in the vellow it comes more swiftly over its round and pus-like aplastic elements, these never showing tendency to elengate, but being round and pus-like; yet even these elements are at first not fatty, and a small zone of grey colonr can with care be always detected around the yellowest of tubercles. Thus, then, the yellowness of the late stage of grey, and the original yellow-ness of yellow tubercle (which we see is also a late stage, but so quickly reached as to be practically original), are the same yellowness, in that both are due to fatty degeneration and yellowness, in that both are due to lately degenerated and consequent opacity; but, in that the things that so change yellow are not quite the same in structure, the slowly faded grey tubercle has certain difference from the quickly faded yellow; but, further, in that the difference between the slowly taded grey and originally yellow elements is one of intensity of cause, they are not different kinds of tubercle. So, I think, the truth seems to be this way—that grey becomes yellow tuberele, and yellow tuberele arises without grey (evidently) preceding; but the yellow tubercle which comes on upon the grey is not quite the same as the yellow tubercle that originates yellow. Yet the yellowness is of the same nature, in either being only fattiness. But the difference between them is made being only fattiness. But the difference between them is made by the nature of the things which become yellow by fat; which things in the greyer tuberde are, on the average, more elongated, in the yellow tuberde more rounded, the elongation and roundness of element being in their turn parallel in nature to the like varieties of form in elements of common inflammatory lymph, and by analogy and by direct evidence shown to be, as in the case of lymph, the results of less or more intensity of action in the cause of the disease.

Pray observe that the difference in regard of yellowness is only one of degree; the tubercles that are apparently originally only one of degree; the tunercies mat are apparently originally yellow always and invariably have a short stage of greeness, this stage not showing itself all through the tubercle at one time—for, little as it is, the tubercle is a spreading, growing thing—but showing itself in the outer zone, which is isst pro-duced and youngest, and which, as I said before, is always grey, however narrow it may be.

So much for the relation of grey and yellow tubercle; no as to the relation of this to inflammation. If you see only small tubercles in a lung, you are content to say they are tubercles, and leave out of account the question of inflammation. are tubercles, and you would no more care to inquire whether are theretas, any on wome no more care to inquire whether they are, novertheless, inflammation than you would care, having recognised a psoriasis, to ask whether it was an inflam-mation. It is a psoriasis. But in some cases you find that, though some tubercles are small knots of firmish consistence, you though some tuperties are small mote of immun consistency, you see in the same lung other patches of larger size, and others we larger; so that from the little tuberless to the large patches there are intermediate graduations. Now, the large patches are granular, and sink in water, and are softish, breaking down casily when pressed, and exuding a yellow-looking opaque juice when so crushed down—and, in short, they have all the constitute which characteristic the nearlilet gray and red heasting. juice when so crushed down—and, in sours, sucy uses an analyqualities which characterise the so-called grey and red hepatisations of the lung in scute pneumonia. Then arises a great difficulty—for the tubercles have pneumonia in such a relation that you caunot but see that the one is the cause of the other

I say you have pneumonia with the tubercle; and, indeed, there is no doubt that the characters (in the cases which I am referring to) and state of the larger masses are, in all essential points, the same as those in pneumonia arising from other causes.

Now, you cannot think the pneumonia indifferent to the tubercle: you must allow some relation between them; and these are the questions that arise—1. Does the tubercle country the pneumonia, as one thing causes another and a different thing. 2. Does the tubercle become the pneumonia, by expansion of its area and diffusion of its influence over greater space in a less time.

in a less time.

Those who hold the first view will say the tubercle has set up a pneumonia. Those who hold the second view will very likely, when pressed, say that that the patch of pneumonia-like formation is "really interch," a patch, not of pneumonia, but of soft "diffuse tubercle." Now, if these two views are allowed to conflict against each other, so that one is made to contradict the other, each makes the other absurd to its own satisfaction.

and goes away overmuch satisfied with itself.

For, if we look disinterestedly at the question, we shall see that its solution lies here—that there is no such thing as the pneumonia or common inflammation, which is so easily assumed to be at hand by those who would hold the first view, and say that he at head by those who would hold the first view, and say that tubercless et a plant simple preumonia. All paremonias have their habits; there is no common pneumonia which has no special hubits. There is no simple pneumonia to which other special hubits. There is no simple pneumonia to which other additions to the characters of simple pneumonia, which simple pneumonia waits to apply itself around indifferent causes. The stock of simple pneumonia is plentiful in theory, but you do not find it in real lungs. In real lungs all pneumonias have their distinctive characters. Every inflammation is intensely specific, and tiere are not common cata with additional lion and tiere. and tiger are not common cats with additional lion and tiger peculiarities, any more than common cats are lions and tigers peculiarities, any more than common cats are itons and tigers with common peculiarities. If we look over the pneumonias racters and distribution of the tuberculous pneumonia except tubercles be present with it—that is, except if the a tuberculous pneumonia. It is quite a peculiar thing, and its characters, so far as they vary from the observations of other pneumonias, vary towards the characters of tubercles, and in any lung vary indefinitely towards those characters, so that at last you find them to be tubercles. I shall be told that Magendie and others have put mercury into the lungs, and made artificial tubercles with surrounding common inflammation. But I beg to say that I could easily have seen that these were not tubercles, and am could easily have seen that these were not tubercies, and am quite willing to challenge anyone to deceive me with auch pro-ductions—they are only naked-eye-deceiving models of tuber-cles. Besides, he never made anything like the expanded formations of pneumonic phthisis, of whose graduation into tubercle I have been speaking; nor can they be made. He produced the pneumonia of mercury's irritation, which is a different-looking pneumonia, and a different pneumonia from

rent-noing promining an emercial processors.

In this discussion of the question, I have purposely avoided using the term inflammation. I have used the word pneamonia, because it will probably carry with it the signification of the produced matter due to the inflammatory change in the lung. From what I have already said on hypertrophy, you know what I should say if the question of inflammation is brought as an alternative to tubercle. I should say the question is an unmeaning question—it is not right to say a stupid ques-tion; it asks what cannot be answered, unless you mean by it -Did the phenomena of pain, heat, swelling, etc., which are the true and only meaning of inflammation, accompany the tubercle? This they certainly do sometimes; perhaps always. It is affirmed, I believe correctly, that the formation of tubercle always goes with an augmented heat of the body, ascertainable

thermometrically.

The formation of a tubercle is as much inflammation as the formation of a herpes or a lichen, and as little; and as you get an inflamed lichen or psoriasis, so you may get an inflamed tubercle. In the case of the cutaneous disease, you would think anyone trifling with your time if he should ask whether the inflamed psoriasis is a psoriasis plus an inflammation; and so I think you should think of anyone who asks the question in reference to tubercle. It is as much tubercle as it was before when it is inflamed; but now it is so intense that the phenomena of pain, etc., the vital reaction to excessive change, are brought out along with the vascular phenomena which eviace, characterise, and indeed create them—which vascular phenomens are the old and present and future import of the word "inflammation" - the subjects of the treatment directly addressed to inflammation, and the causes of such phenomena, additional to the cell-production of the tubercle, as are due to the vessel dilatation, blood stagnation, fluid oozings, etc., that the vascular reaction or inflammation brings to pass,

I will conclude this lecture with an analogy which, I hope, will serve to place the relations of the various formative dia.

eases clearly. If you asked What is light? you would be told it is vibration. If you asked What is sound? you would be told it is vibration. If you asked What is sound? you would be told it is vibration; and so, probably, seent is vibration, while some vibrations give a sense of touch. But though your mind sees all these as vibrations with the sees all these as vibrations. sees all these as vibrations, yet your senses in a way analyse the vibrations, and your eye discerns the light of its vibrations, and your ear the sound of its vibrations, and so on and on; and your ear the sound to its violations, and so on and on; so that your senses do a service that is in a way opposed to that of your mind, and in their way are clevorer, and certainly more practical, than your mind, which would never have found out that vibrations are light, however well it knows that light out that viorations are light, nowever wen't knows that light is that, added to vibrations, makes them light, or sound, or scent. Now, it is in a very similar way that, when you ask What is inflammatory formation? you are rate told it is cell growth; and when you ask What is tubercle? you are are told it is cell rowth; and so tumour, and a lot more. The viowing of these different things with sufficient eye-power by the microscope aridences this beyond doubt or question. The foundation of evidences this beyond doubt or question. The foundation of all these is one and the same thing—the production of nucleated cells, which grow when they are produced. This is common to them all, like vibrations to light and sound; yet the result of these growths is to produce here a tubercle, and here a patch of these growths is to produce here a tubercie, and here a patch of lymph, and there a tumour; and clinical experience—that is, the watching of the phenomenal results of the cell growth— evidences the differences between them. Clinical experience, as it were, further analyses the life of cells, as the senses analyse vibrations; but what it is that, added to cell growth, makes it become tubercle, or tumour, or lymph, you do not know, and sorew will know. It is very likely that your mind is not able to frame the question which anticipates the solution of the problem.

ORIGINAL COMMUNICATIONS.

CLINICAL NOTES OF THE VARIETIES OF IMPERFECT SPEECH PRODUCED BY BRAIN DISEASE.

By ROBERT DRUITT, M.R.C.P. Lond., etc.

Case 2 .- Sudden Confusion of Speech, with Right Anasthesia-Gradually-increasing Brain Disease—Death—Abscess in Middle Lobe of Left Hemisphere—Cheesy Granules outside Left Thalamus,

MARCH 30, 1849 .- Was desired to see Mr. Cornelius A. T., aged 41, clerk at a honse of business in Bruton-street. The patient, well known to me as a man of scrofulous appearance, fair, and reddish-haired, solitary and fanciful, temperate, and having always enjoyed good health. A mother and one sister epileptic, one brother insano.

Says that ten days since, while in a shop in Bond-street, he suddenly felt slight nauses and pain in head, with slight numb-ness of right arm, and inability to put the right name to things. Ness greatly alarmed; tried, but could not pronounce his own namo, or the names on the shop-fronts in his way home. These symptoms have persisted to the present time. much excited of late about Chartist rioters. He has been

Find his face flushed and head hot; pupils natural; pulse 80, full; can make himself understood by signs and gestures, but cannot find the right name for anything; uses an unintelligible jargen; calls bread and cheese "blob and lob," but knows the right word when found for him. Ordered cupping in the nape to 15 ozs.; four grains of calomel and a black draught; effervescing mixture; low diet

March 31 .- A good night; hesitation of speech but slight; urine natural.

April 1.—Tongue slightly furred; head much less uneasy; pulse, in bed, 60, soft. 3rd.—Much better; head nearly free from uneasiness; peech very slightly affected. Fish and milk diet; aperients;

blister to nape. Went to Peterborough on the 4th for a holiday.

27th.—Has been in the country, going on well till yesterday, when he found that his walking-stick dropped from his right hand, which has felt benumbed since. In trying to open a gate, he could not feel the latch, and cut his fingers against the iron, without knowing it; cannot feel the way to his right ocket, nor button his shirt with his right hand; complains of slight pain at left side of occipital bone; has difficulty in putting the right endings to words. Calomel, gr. ii. h. s.

28th .- Better ; pulse 70 ; tongue furred ; appetite good ; diet

of fish, pudding, vegetables, etc. Tartar emetic one-sixth of a grain daily; blister.
29th.—Still less confusion; arm less numb. Ordered one

grain of calomel every night, till slight ptyalism should ensue;

continue the tartar emetic. May 4 .- Slight tenderness of gums; thinks himself better.

Omit the pill. 6th .- Says he feels decidedly stronger in the head. Continue

ant. tart.

9th.—A return of numbness, with chilliness last evening; speech less perfect; calls rice, "faice" or "fash"; cannot find the word "shave"; has sensation of aura on right side of nose. Repeat the calomel gr. j., o. n., and the ant. tart.

12th.—The confusion of speech returns if he is at all agitated; tongue furred; mouth not sore. Repeat the calomel

twice daily and the antimony.

15th.—Gums tender; slight headache and feverishness. 20th .- Much the same. A seton to the nape ; continue the

antimony and calomel.

antimony and calones saw him in consultation. He recom-20th—Dir. Ferguson saw him in consultation. He recom-tended to the same of the same of the same of the same untrition without lessening the symptoms. Carbonate of 30th.—Looks better, and is in better spirits; the symptoms now are, occasional numbers of cither hand, and more disturbance of speech.

Jano 9th .- Health better: speech very defective; feels unfit

for business.

12th.—In statu quo. Tinct. ferri mur. mv. bis die. 23rd.—Is sick and drowsy, he fancies from eating a bun.

Omit steel; give an aperient pill and draught. 24th.—Difficulty of speech very great; slight headache; sickness, and disturbance of digestive organs.

28th.-Great confusion of speech; numbress of right arm and right side of face; appetite restored.

July 8th.—Observed, for first time, that mouth was slightly

drawn to left side, and some inability to prevent saliva dribbling.

Seton again; mild aperients; good diet.

18th.—Slight dimness of vision and diplopia; losing flesh.

19th. Sees donble. When he closes either eye the sinister image vanishes. (N.B. The word sinister used in the same sense as in heraldry, to denote the left side of the thing looked at, opposite the right side of the looker.)

opposite the right side of the toder.)
August 14.—Symptoms aggravated; appetite at times voracious; tongue coated; bowels constipated.

21st.—Right hand and arm partially palsied; creeping sen-sations about right side of face; speech worse than ever; diplopia such that he cannot pour water into a glass if both

diffusion section of the constraint of the const

clear to the last. Died on October 4.

October 5.—Post-mortem.—Assisted by Mr. C. R. Walsh and Dr. T. Peregrine. Head: Skull remarkably dense, ivorylike, and easily separating from dura-mater. When calvarium raised, bulging and increased size of left hemisphere of brain observed. No serons effusion. Much superficial congestion. Firm adhesion of the arachnoid surfaces, of the size of a silling, at a point corresponding to left parietal protuberance. The right hemisphere, which was first examined, was perfectly healthy throughout. No effusion in either ventriele. On the onter side of the left thalamus nervi opticit, where it is in contribution of the side of the left thalamus nervi opticit, where it is in contribution of the left thalamus nervi opticit, where it is in continuity with the substance of the hemisphere, there were found a few distinct yellow friable tubercles, not larger than a quarter of a hempseed each. Between this and the point where the cerebral and dura-matral arachnoids adhered, there was in the midst of the middle lobe of the brain the cerebral substance softened, infiltrated with semi-purulent serum and small coagula. The junction of the diseased and healthy portions and small was definite and abrupt; the centre of the diseased portion was soft, broken-down brain, mixed with thin purulent matter, the circumference infiltrated with lymph and serum of reddish orange colour and jelly-like consistence. The ventricle and anterior and posterior lobes not affected; the left tractus opticus apparently smaller than the right. Heart thin and soft. Lnngs free from tubercle. Abdomen not examined.

In this case, the thing first noticed was failure of the power to connect the patient's thoughts with articulate speech, with no defect of articulation, for he could pronounce any word found for him, but could not find it himself; after this the supervention of anesthesia and paralysis of the right side; the aura, followed by paralysis of the right face. There was no perceptible squisting, and the yeas could be directed to any object; but the image formed on that portion of the retina which proceeds from the left tractus opticus was dim and displaced, and vanished when either eye was shut. The pain in the head, referred to the left parietal protuberance, where the abscess would have pointed had it been possible, was noteworthy. So iar, I have faithfully abridged the notes written twenty-

So iar, I have faithfully abridged the notes written twentyone years ago. But in the original notes, I designate the case
"tube-reular" on the ground of the scrofulous diathesis, and of
the character of the yellow, choosey granules found. But they
may have been clot. As some of my brethren are disposed to
return to the old depletory system, I may observe that this
case, though met with prompt depletion, turned out no better
than Case I, which had none; and that I fear the ealoned and
antimony used to reduce inflammation and "promote absorption" had no good effect on the progress of the disease.

LEUCOCYTES OR SARCOPHYTES. By CHARLES J. B. WILLIAMS, M.D., F.R.S.

I am much pleased to find that my able friend Professor Sanderson is directing the attention of his pupils and of the coroon is directing the attention of his pupils and of the Profession to those wonderful bodies, the recently termed tenesques, long known as the lymph globules and pale blood corpuscles, mentioned by Hewson, but first described by J. Müller, and subsequently noticed and measured by Gulliver. They were first observed to play a peculiar part in the circula-tion in the frog's web by Dr. W. Addison (Medical Gazette, January, 1841), and a few months later, without the knowledge of Dr. Addison's observations, I described these corpuscles as taking a prominent share in the process of inflammation in the same animal (Gulstonian Lectures, Medical Gazette, July, 1841, and "Principles of Medicine," 1843). The increased number of these colourless corpuscles under the influence of irritation, and their remarkable tendency to adhere to the walls of the bloodyessels, and to cause their obstruction in inflammation, appeared to me of the highest import in connexion with this process. The appearance of similar bodies on the outside of the inflamed vessels led to the notion of exudation; outside or the inharmed vessels led to the notion of exhaustion; and these similar products of inflammation were called exhaution globules. The fact of these bodies passing through the walls of the bloodvessels was first distinctly announced by Dr. W. Addison; but neither this observation, nor the more precise and unequivocal one of Dr. Angustus Waller, three years later (Phil. Mag., 1816), seems to have attracted the attention which it deserved. The fashionable doctrine of cytogenesis of tissues threw the white corpuscles and exudation process into the shade, till three years ago, when they were again brought to light by the re-discovery of Cohnheim, since which these bodies have been carefully investigated, and found to possess not only the power of migrating and pervading membranes, but also the vital endowments of spontaneous motion, absorption, digestion, assimilation and growth, and propagation by fission, by germination, and by endogenous proliferation. In fact, these little bodies are morsels of that living protoplasm, or, as Dr. Lionel Beale terms it, germinal matter, which is the instrument and material of nutrition and growth in animal and vegetable structures. So, also, in disease we have to look to modifications in the properties of these repre-sentatives of organic life for the true nature of morbid products, such as lymph, mucus, pus, and tubercle. Here is a wide and rich field for investigation as to the origin of disease in these elementary forms, and as to the influence of agents on them. For example, take the following most suggestive observation of Max Schultzo-"The great majority suggestive observation of Max Schultze—"The great majority of white corpuscies of the blood] are characterised by the lively movements they are capable of performing.

It is a supplied to the property of th

often exceeds 104° in pneumonia and acute phthisis.

But the object of this communication is not only to express
my sense of the importance of the subject in its relations to
pathology, but also to suggest a more correct and expressive
name for these elementary flesh-germs. The word "leucocyte,"

used by Dr. Sanderson and some French authors, was I think, originally applied by Professor Bennett, of Edinburgh, and, meaning white cell,(a) was suitable enough to distinguish from the red corpuseles of the blood the white globule which was generally supposed to be a cell; but now we know that, although the pale corpuseles do sometimes possess a cell-wall, and always assume a cellular character in their change into most edil, but more little lamps of jolly, and it is in this state only that they calbilit the active motions and other viral proprises which associate them with amobe and other forms of living proteplasm. A formed cell with a wall could never pass through the invisible pores of the coats of vessels and other issues, as we now know the pale corpuseles do. We want, therefore, a term which may express something of the nature and properties of these bodies. The name strool; oug and shin, and is the protephasm, and it has been applied to other forms of moving protoplasm.

COUNTRY VERSUS TOWN MILK. By JOHN GAMGEE, Esq.(b)

(Concluded from page 30.)

The rinderpest proved the possibility of extinguishing the lung plague and foot and mouth disease. It compelled us draw largely on the country for milk, and the third system now in force is steadily developing. It consists in the country dark force and the consentration of country dark from for the another the country may force the country produce; but, whereas the distant farmer only contributed to a limited extent formerly in this respect, be now threaten to render to where the distant farmer only importance.

It is somewhat remarkable that, whereas of old the London

It is somewhat remarkable that, whereas of old the London "sky-blue" generally condemned was a mixture of town milk and water, there are those who hesitate not to insist on the importance of having a town product in preference to country milk. It is said that babies should be supplied, as they but rarely have been, with the milk of one cow, without change; that the warm milk, freshly drawn, is preferable to milk transported long distances by rail; and that the richness of cream and milk from town dairies is greater than that from the country.

As one of the staunch advocates for a healthy town-dairy system, it must not be supposed that I have readily been convinced of the fallacies involved in these arguments. I can state positively that too much reliance has been placed upon analysis. When I first studied this subject, the most absurd rumours of chalk and water, as substitutes for milk, were exceedingly prevalent. I found that water was the main deteriorating agent cuplyored, and an associated at time a little warm water, and perhaps a few grains of nitre, were employed to remove that very prevalent detect of cow-shed milk—a turniyy flavour. I have known dairymen who regularly retailed the milk without any dilution, until the avanges by disease and increasing poverty broke down the honost man's intentions, and dilution was practised. You may rely in every trade on a percentage of homest, and a certain percentage of the set of the control of the c

producer.

Every system will have its drawbacks, and that of the country milk supply is, that a very considerable proportion of it comes through the hands of middle-men, who buy from the farmer, and sell to the small retailer. Of course,

(a) Asserts stree, white cell. The word stree, a hollow vessed or skin (from one, to contain), is not a very apt expression for a cell, but usage has now pretty well established it. (b) A paper read before the Association of Medical Officers of Health.

interest in a citra profit to be made in some way, and the chance of treeding the boulity from which the milk is obtained, and therefore, the bealth interest of the cove, is materially issented. These milk factors, not being directly responsible to the consumers, are more likely to purchase milk of a quality which the large dairy would reject, and it is to be feared that a large quantity of skimmed and inferior milk is thus brought to Lundon, either for sale to the lower class of retailers or to be supplied to public institutions. The larger dairies, and particularly the dairy companies, as the Aylesbury Dairy Commenter of the control of the c

It is interesting to inquire whether there is any substantial ground for believing that, in rearing infauts by hand, it is best to have bot milk from a cow close at hand. When the Aylesbury Dairy Company first started, I watched with manile should not be deteriorated in transit. They adopted and insisted on the plau of cooling the milk immediately after it was drawn. In America, I found that this was regarded as an essential to the collection of milk in good condition for the choses factories, and I have no hesitation in saying that hot milk uot cooled so soon as drawn is a mistake. It is very remarkable how speedily and rapidly changes occur, and more rapidly in town than in country milk; and, were I a town daryman, I should be as careful as a farmer who knew his business to cool the milk cane, place them in cold water, and pornature of the fluid is only secondary in importance to denaininess in the ntensils used, and effectual scalding of milk cane, and pails. Otherwise, decomposition sets in promptly, germa of mould grow, and the milk acquires fetid and irritating properties, calculated to induce severe intestinal derangements.

The subject of milk teets is one of the highest importance, and the public has reason to be grateful for the attention paid by Medical Officers of Health to this point. It is still, however, and the public has reason to be grateful for the attention paid by Medical Officers of Health to this point. It is still, however, but little understood; and the present system of obtaining samples of milk for analysis is so very defective that a casual sample so obtained cannot be said to fairly represent the general quality of the milk sold. A retailer who cultivates a shop trade—selling, perhaps, eggs, butter, etc.—will, just as he is particular to have clean eggs and nicely-arranged In milk, when left undisturbed for any length of time, however short, the cream is always working its way upwards; and just in proportion to the time that has elapsed between the milk having been put into the vessel and the sample being purchased, so will the sample perpersent more or less fruity the quality of the milk. Thus, particularly if the milk on the counter be in the first instance a somewhat selected lot, an analysis is obtained, showing an abnormal percentage of cream, and the returns, if published, may possibly do an irreparable income whose management to comparison, and unduly exail and the second of the control of the property of the proposition of the milk sold at any particular dairy would be to take into consideration the class of business done, and to examine several samples on the premises or as supplied to families.

Chemical tests cannot be used in a household, but it is well to point out their merits and themerits as they have occurred to more. The conclusions you may draw from my observations are perhaps, somewhat different from those generally accept hitherto in relation to the relative advantages of the town and country dairy systems for the supply of large towns. I un-

hesitatingly assert that it is best for the town supply to be small and supplementary, and not, as in the past, the main source. At the risk of almost tedious recapitulation, I beg to draw your attention to the fact that the abolition of the town cow-sheds implies the abolition of the town cow-sheds implies the abolition of the most prolific centres and established stations of contagious plagues. Why did people think, in 1866, that rinderpest had actually developed spontaneously in the metropolis? Because in a few weeks the cows were killed by hundreds and thousands in the towns, whereas distance and dispersion materially retarded the spread of the malady in country districts. The same holds good with the lung plague and the foot and mouth disease.

The proper man can always a summary and the property of the pr

We should all aim at securing a sound, good-flavoured milk, such as an ordinary country farm can supply. The country farmers can use bean- and pea-meal, distillery wash, and other foods such as cow-feeders use but the more we have a produce of good grazing-lands, with little artificial modification, the better for the babies.

If Medical men find it necessary to have cowe close at hand, let a rational system be adopted for this purpose; town row-sheds constructed on proper principles and placed under strict supersision. The health and life of infants demand this, and the wholesale distribution of milk from cattle affected with foot and mouth disease should be prohibited.

Never again should we desire to see the old town cow-shoels with their tuberculous immates; they are sure to return if the sanitary anthorities are not alive to the subject. With a complete exclusion of foreign diseases, the old system would again be possible; but the most effectual way I know of, to prevent the sale of diseased meat and milk, is to abolish the town dairy even as it now flourishes. I would encourage the growth of some suburban cow-houses, in choice localities, and under proper restrictions. Slaughter-houses, pigeties, and cow-sheels can be; and, just as the Aberdonians have carried the day in London with their country-killed meat, so must the enterprising milk companies. We should have a weekly publication of infected centres, referring both to human and cattle diseases of a contagious nature. This would aid everyone is knowing what places to avoid, what means should be adopted for the health of the people and to ensure the soundness of the food they est. With energy and discrimination we could prevent much mulchief, frustrate the derives of imrees, and assuredly tend to the surface of immers, and assuredly tend to the side by side; and the prevention of disease can do more than penal codes in making honest tradesmen and respectable communities.

DANK.—Dr. Whitmore, in his monthly report on the health of the parish of 8t. Marylebone during December, 1871, says that "Whilst recognising the fatal influence of a low temperature upou the young, the agod, and the feeble, I nevertheless find that the damp weather, even with a much higher temperature, is infinitely more destructive to life. I am happy in being able to report a considerable reduction in compared with that of November, the death scledelined from thirty to twelve. We now possess—which then we did not—a valuable protecting agent against the spread of the diesae, in the abape of a disinfecting apparatus for the purpose of purifying all infected clothes, bedding, etc. This apparatus has been almost in daily use since it was purchased, and I have every reason to the increase."

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

SMALL-POX IN THE LONDON HOSPITALS. ST. GEORGE'S HOSPITAL.

ABOUT a month ago, or rather more, there occurred a case of small-pox in the person of a female patient under the charge of Dr. Barclay. She had been in the house seven weeks before the appearance of the disorder, so that it was impossible she could have brought contamination with her. As soon as the nature of the disease was discovered, she was removed to the nature of the disease was discovered, she was removed to no Small-port Hospital; but with her the contagion did not depart. It next showed itself in the case of a female in one of the Surgical wards, where she was being treated for a bad knee-joint. She was not sent out of the Hospital, but was placed in one of the separation wards, ordinarily used for noisy and troublesome cases. The third case also occurred in a female, here the contract of the contract o who was in the same ward as the first attacked, but there was no evidence of direct contagion. She also was sent to a separate ward. From this time the disease spread apparently all over the house, even in the ward devoted to the disease of women, insomuch that the authorities have been obliged to set aside two large convalescent wards at the top of the house for hese cases. In these wards there are now about twenty atients, including the two who were attacked second and these cases. patients, including the two who were attacked second and third, who are now completely convalencent. Some of the disease in a modified form. Only one person belonging to the household of the Hospital has been attacked. This was a pro-bationer nurse, who suffered very bully, and is now the worst in the Hospital. Two have died of or in the disease. Probably the latter is the true expression, for the one was a woman very ill of heart disease before she was attacked with small-pox, the

other an elderly man suffering from paralysis.

To arrest the spread of the mischief, the Committee determined to stop all visitors except to patients urgently ill, three mined to stop an vantors except to patents urgeany an, since weeks ago, and that resolution has been steadflastly carried out. They also determined to raccinate all belonging to the esta-blishment. That has been done with the good results above members, and the state of the state of the state of the state the print, after the patients have been ally warned of the risk Hospital, after the patients have been ally warned of the risk

they run, and consenting to be vaccinated.

One case has occurred in the Convalescent Hospital at Wimbledon, how we are not informed. At all events, it has been closed against new-comers during the last three weeks.

For the above facts we are indebted to the courtesy of Dr. Dickinson, jun., House-Physician to the Hospital.

ST. BARTHOLOMEW'S HOSPITAL.

After St. George's, St. Bartholomcw's seems to have suffered most from small-pox. Some of the cases appear to have been taken into Hospital in the stage of pyrexia, before any well-marked symptoms of small-pox had showed themselves; but after being in for a time, the shorty nodules have showed themselves on the hands and face. In some of the cases it appeared in the Surgical wards, and in such a fashion as to leave no doubt in the minds of the authorities that the disease had been introduced by visitors; and orders were given to stop had been introduced by visitors; and orders were given to stop them. These orders appear now, however, to have been rescinded, visitors wandering about much as usual. Among been somewhat seriously ill. There are now six or seven ill in Hospital, and some have been sent to the Small-pox Hos-pital. This outbreak will probably lead to the establishment of indevitous wards in this Hospital. It is affirmed by some of the Medical officers that some of the beds devoted to venereal cases might be given up for this purpose.

WESTMINSTER HOSPITAL.

The disease would seem to be particularly rife in the West-minster district. Last Friday there were seven applications in the out-patient department, and there have been, on an average, two applications a day for the last three weeks.

There are at present four patients suffering from the small-pox in Westminster Hospital, and three have been admitted during the last week. Visitors are, it seems to us very improperly, still admitted to the wards.

GUYS HOSPITAL.

At Guy's there are two cases of small-pox. One a girl, taken ill twelve days ago; a very well-marked case. The other patient was a male. In his case the small-pox was modified. pattent was a maic. In his case the small-pox was modified. They are both now convalescent. On Saturday last, a man from the Westminster-bridge-road presented himself, seeking admission; he was sent to the Small-pox Hospital.

LONDON HOSPITAL.

In the London Hospital there are a great number of cases; and there is a talk of erecting special buildings in the rear of the Hospital for their accommodation. Meantime, they are in the old school buildings.

Of the other Hospitals, nothing special is reported; except that at St. Thomas's it is said no cases have occurred in the Hospital or out-patient rooms. In most of the others—University College, Middlesex, Charing-cross, and St. Mary's—out-patients have appeared with well-marked small-pox cruptions; but, as far as we know, no cases have occurred in the wards.

KING'S COLLEGE HOSPITAL.

OPERATIONS.

(Under the care of Sir WILLIAM FERGUSSON and Mr. HENRY SMITH.)

On Saturday last (January 14), several operations of interest were witnessed at this Hospital. The first case brought into were witnessed at this Hospital. The first case brought into the theater was a young man, who had been operated upon on a previous occasion, about two months since, for a large Erectile Tumour of the right arm, extending from the lower end of the ulner side as high up as the lower third of the upper arm. It had formed a large oral and prominent tumour, composed, cridentally, mainly of calarged veins, for there was not any pulsation. Mr. Heary Smith had, on the previous operation, introduced several needles underneath the vascular tissue, and availed the worked these. As thousages are where the tissue introduced several needles underneath the vascular tissue, and applied the worsted threads at the upper part, where the tissue was even more vascular, prominent, and circumscribed. A subcutaneous ligature was tightly applied. The effect of these measures was to destroy most of the diseased tissue, but in the upper portion there appeared to be signs of increasing growth; therefore, to-day, Mr. Smith repeated the operation of the diseased diseased, the second of the diseased diseased di lating the upper portion of the diseased mass.

name the upper portion of the unsensed mass.

The next patient introduced was a young woman, on whom Sir W. Fergusson had previously operated for an extensive cleft in the soft palate, with excellent results. An Opening, however, remained in the Hard Palate, and this Sir William endeavoured to close by detaching the soft parts and uniting

them over the opening.

An adult woman was next brought in, who presented a very An adult woman was not brought in, who presented a very sorry specimes of the set of Surgery, for ale had a very lad but with adult and the set of the set of the set of the will be a had result that the deformity could not have will been greater. Sir William Fergusson repeated the opera-tion in his accustomed manner, taking great pains, as he remarked at the time, to remove freely the edges of the delt, he being long convinced that the indifferent results often after this operation were due to the Surgeon being too paring in A young lad was next became, it is the set of the s

an ms measures. A young lad was next brought into the theatre suffering from Fibrous Anchylosis of both Hip-joints, the result of inflammation. When the boy was fully placed under the influence of chloroform, Sir William Fergusson very carefully broke up

the adhesions in both joints

The last two cases brought into the theatre were especially interesting and important, as they presented instances of a somewhat similar condition of disease—Stricture, with severe Perincal Fistula, and each requiring a cutting operation. In the first case, a patient of Sir William Fergusson's, a middleaged man, an enormous amount of disease existed, the entire scrotum and perincum being riddled with sinuses and converted into a hard brawny mass of immense thickness. not been possible to pass any instrument into the bladder—in fact, Sir William could not get the catheter further than the free portion of the penis in the wards. When, however, the patient was placed under the influence of chloroform, and was patent was piaced under the innecess of contribution, and was placed in position, it was found that an instrument could, with great difficulty, be passed further down, and upon the point of this Sir William Fergusson made his incisions through

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enormously thickened tissues at great depth, and divided the unethra as freely as could be under the circumstances, and gradually urged the sound over towards the bladder; but there was great resistance to its oaward progress at the back part of the urethra, and as a free opening had been made, and as it was impossible, as Sir William remarked, to say whether the sound had got out of the urethra or not, and as some fatal injury night bed one by entiting freely at seach a depth and injury night bed one by entiting freely at seach a depth and all and the control of the control of the control of the already done.

The second case was a patient of Mr. Henry Smith. Ho was a middle-aged man, who had suffered, off and on, with bad Stricture for several years. There was extensive induration in the perineum and ischlor-textle region, and sinness, through which a great portion of his urine exaped. When he first catherer, but after perseversion be was enabled to introduce one. When he was placed under chloroform, and in position, Mr. Smith first introduced a No. 3 catheter, and then a No. 5 grooved staff, and made his incisions through the thickened tissues of the perineum upon the groover of the staff, the disasses of the perineum upon the groover of the staff, the disasses of the perineum upon the groover of the staff, the disasses of the catherer was then below was children and the staff was withdrawn at the ball, was divided freely, and the staff was withdrawn at the catherer was then introduced into the bladder, and tied in.

In the course of some remarks which Mr. Smith made, he called attention to the important distinction which existed between these two cases. Careless observers, and even well-informed near, were sadly in the dark about these two operations, and the contraction of the contraction

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Medical Times and Gazette.

SATURDAY, JANUARY 21, 1871.

MILK DIET: SOUR MILK-MILK WITHOUT SUGAR
--KOUMISS.

In our article last week we dealt with the subject of milk. We asserted that, for the sake of young infants, milk should be procurable from cown near at hand, and advocated the keeping a few cows in or near large towns for that purpose. We showed that to have good rich milk all the year round must be as much the work of human ingenuity as the having

early vegetables, salads, or fruit. The invalid who is delighted by a few bothenes strawberries in April does not reject them because unnatural; nor need we quarrel with our fat beef and mutton and our milk in winter, because we could not get them without something like hothouse treatment. Cows naturally would caive in April or May, when there is fresh herbage for the young ones, and would be dry in winter; and if we want milk all the year round, we must feed the cows with food they never can get in a state of nature. Human mothers know the value of good beer whilst they nurse, and we need not begrudge grains, and eake, and distillery-wash to the cows.

Most English people will use eream, though sour, for custards and puddings, but they throw sour milk to the pigs. Now, even as regards young babies, we were taught by Dr. Ballot's experience as to the use of buttermilk that we ought to make sure we are right before we altogether reject milk because sour. Moreover, when milk has travelled some distance, it may undergo changes which disintegrate the curd and hinder the cream from rising. Such milk is very vexatious to the analyst, who desires to filter off the whey clearly, in order to test its gravity. During several years, when engaged in annually testing the quality of the milk sold by a large number of dealers in an important parish, we had noticed that the milk coming from certain dealers had this diffluent quality of curd, whereas most of the specimens yielded a curd hard and compact. The diffluent curd came from dealers who procured their milk from the country, and was never equal in cream or gravity to good town milk. On the theory that such milk had been subjected to changes which interfered with the first processes of digestion, we ten years ago looked upon such milk with suspicion. Now we are inclined to think that a shaken and disintegrated curd, on which a railway journey has acted like a churn and made it like buttermilk, might not be unwholesome for babies.

We may again, whilst treating of modified milk, call attention to the usefulness of remark (of which we noticed a "sweet easence," prepared by Mesers. M'Master and Co., of Dublin), in beginning that work which the mucous membrane of the child's stomach is bound to finish. Dr. W. Marcet has, we believe, applied the same principle to mest. We may also, in order to embolden our readers in the use of soured milk, point to that old-fashioned dish, which enlivened the pienies of our grandmothers, yelpet "syllatub under the cow," in which mountain wine or sweet Malaga, and lemon-juice and brandy, and sweet cakes, with possibly a little marmalade, were mixed in a huge china bowl, into which then a quiet cow was milked, so as to fill the bowl with a delicious, foaming, half curied mass, congenial to the age at which love burns bright, and the stomach knows no troubles.

We may remind our readers, also, of the use of sour milk amongst the Orientals, from the carliest day to the present. The butter which the—shall we say heroine or murderess— Jael brought out in a "lordly dish" to assure her victim Sisers of a hospitable welcome was sour milk; and the same under the name leben is found in every Arnb tent to this day.

Hitherto we have noticed preparations of milk to which, whether fresh or modified, sugar would be an admissible addition. But it is perfectly possible to treat milk in a seewy manner—that is to say, without sugar, but with salt, vegetables, and aromatics, which shall give it somewhat of a meaty flavour, and thus redievo the tedium and monotony usually statching to milk diet. But we will reserve this branch of our "high argument" illi another occasion, in order to bring before our readers the latest novelty in preparations of milk—the Tartar koumiss. This liquid has been introduced into England by Dr. Jagelski, described as an M.D. of Berlin, and late Physician to the Prussian Army, and its use is advocated in a pamphlet of remarkable ingenuity. (a) We well remember [4] The pamphlet is seld and the kounism manufactured by E. Chapman, 10, blue-terret, Pertland-plase, London, W.

For absurd the idea of cod-liver oil seemed when it was brought into general use some five-and-twenty years ago; "What possible good," it was said, "can be got from stinking fish oil? Have not dietetic Physicians been proscribing and denouncing pork, goose, duck, salmon, and all 'oily' articles of food? and here we as asked to believe in train oil?" So we may say, "Have not dietetic Physicians raved about acidity and flatulence and lactic acid, and all that tribe? and here we are asked to believe that sour, fermenting milk is a remedy for the worst form of depraved digestion—phthisis!" We must live and learn, and rectify our theories by our practice.

Koumiss, be it known, is, in its native region, Tartar land, a kind of wine made by fermenting mare's milk, and agitating it during the process. The Kirghises, amongst whom koumiss is prepared in its highest excellence, are, according to travellers, very strong, of athletic constitutions, with great muscular development, and well-shaped thorax. They pass the greater part of their time in the open air, on horseback, and winter in the covered waggon, which is called kibitschka. They live on the flesh of horses and sheep, and their favourite drink is fermented milk-made from the mare's milk when procurable, but, in default of that, from other milk. Scrofula and consumption are unknown amongst them, which, considering their diet and the lives they lead, is not much to be wondered at. Here we see the material fer a good Medical syllogism. The Tartars are never consumptive; the Tartars drink koumiss; let us, then, drink koumiss, and we shall never be consumptive. We can well understand that persons who visit Tartary to undergo the koumiss cure should derive benefit, if they share in the Tartar diet, air, and exercise; but, as we said before, we fully agree that the koumiss itself, whether it contribute much or little to the result, is an element deserving to be experimented en by Physicians.

Mare's milk is said to contain thrice the quantity of butter that human milk does, twice the sugar, and half the casein. It likewise contains very much less casein, and more butter and sugar, than that of the ass and cow. Poverty in casein, and wealth of the saccharine and butyraceous elements, are its characteristics. It is impossible to obtain mare's milk in this country, therefore cow's milk, so manipulated as to bring its composition to that of the equine family, is used instead. This is subjected to fermentation by a process not revealed, and the result is a mixture of alcohol, carbonic acid, lactic acid, and finely divided casein and butter, with the residue of the sugar and salts of the milk. When fresh, it is slightly acidulous, and is said to be somewhat aperient. When old, it is quite acidulous, and highly impregnated with carbonic acid, so that it issues from the bottle in a mass like whipped cream. It is sold in bottles like those used for the gazeuses, from which the liquid gushes out on depressing a handle. When old, it is said to be astringent, and good for chronic diarrhosa.

We have ourselves tasted it, and found it not unpleasant; not unlike a mixture of chanpage with cream, which is ordered by some ef our brethren, but not so nice. It combines a sour, a brisk, and a rich taste. Only experience will decide whether it is to take a place in the Physician's armoury, and on this we should be glad to hear what our brethren have to say.

COUNT BISMARCK ON THE GENEVA CONVENTION.
COURT BISMARC's recent circular to the North German representatives abroad, in refutation of the charges brought by M. de Chandordy against the German mode of carrying on the war, and the protest of the Government of National Defence of France against the alleged direction of the Prussian shells upon military, ciril, and even lying-in Hoppitals, churches, and schools during the lately inaugurated bombardment of Paris, confirm the views which we have so frequently expressed as to the impracticable nature of the proposals of the Geneva Couverning for securing the

neutrality of persons and material employed in the relicf of the wounded in war. Count Bismarck charges the French in the first instance with ignorance, on the part of their own wounded, and even of military Surgeons of high rank, as to the rules of the Geneva Convention, with which, however, latterly, they have made themselves so well acquainted, that they know how to derive the greatest advantages from it, without, however, exhibiting any commensurate improvement with respect to the fulfilment of the obligations imposed by the same. He accuses them up to the present time with having continued their attacks on flags of truce, dressing-stations, and ambulances; ill-treating and robbing Surgeons, delegates, Hospital servants and attendants; and, to crown all, with actually murdering the wounded. The latter most revolting charge he makes on the evidence of a Swiss Surgeon, Dr. Burkhard, dated Pinseaux, December 18, 1870, who states that, on November 30, he saw a French military Surgeon, of whom not only the French prisoners asserted, but who himself openly acknowledged, that he had killed many Prussian prisoners with his revolver. The accusation is too hideous for belief, and bears improbability on the face of it; but Count Bismarck does not hesitate to make use of it, although he is much too acute not to know how utterly valueless it is while uncorroborated by the strictest investigation at the time and on the scene of the alleged crime. Who was the French military Surgeon who thus openly boasted of having perpetrated a crime the mention of which makes the blood run cold? Who were the French prisoners who asserted that they had seen him commit the dastardly act? And why was not the miscreant arrested and tried and executed on the spot by the military authorities in whose charge the prisoners were? Even supposing all these questions to be satisfactorily answered, Count Bismarck is in no way justified in founding upon the act of an individualpossibly a monomaniac excited to frenzy by the sufferings of his country-a charge against the whole French nation. In doing so, he raises a false issue, the adoption of which by the German nation would detract from the high character which they have in many ways earned for themselves during the present lamentable war.

The hoursey evidence of the same Dr. Burkhard is quoted by Count Bismarck, to the effect that many France-tireurs when retreating pulled Genera brassards from their pockets; but the well-known fact of the Prussian Araskentrippra going into action wearing the same badge, armed and doing duty as combatants, with their respective companies, is studiously aveided.

The use of bullets either of directly explosive nature or divided into sixteen edged segments, and loosely joined again, so as to be equivalent to chopped lead, is another of the charges made against the French by Count Bismarck, who has sent one of the many specimens of this sort of projectile in his possession to the Foreign Office at Berlin, to be then submitted to the representatives of the foreign powers as a proof of infringement by the French of the amiable rules of the St. Petersburg Convention, which ordained that, although twenty men may be blewn to stome by a single shell of large dimensions, the use of an explosive rifle-bullet against an individual is inadmissible.

The mutual recriminations of Count Bismarck and M. de Chandordy are the natural results of the well-meant and philianthropic attempt en the part of the Geneva Convention to lay down rules for the guidance and restraint of men whose passions are let loose and excited by war, which is itself such a huge outrage against the moral nature and the common Christianity of civilised mankind, that so long as it exists it will involve to nations and to individuals every horror and form of suffering. Had the attempt to reduce the horrors of war to an unattainable minimum, by means of theoretical restrictions, never been made, the French and German nations would now have been spared the increase of titterness and of the widening of the gap between them, by charges and countercharges as to the infringement of rules, which demand from human nature such a degree of self-control as will never exist until the blessed time when wars shall cease.

CLINICAL INSTRUCTION IN INSANITY.

WE lately noticed a paper by Dr. Sibbald upon "Clinical Instruction in Insanity," and the importance of the subject induces us to consider it somewhat more fully. There can be no question that the absence of all means of clinically studying mental disease is one of the gravest drawbacks of a London Medical education. Only within the last few years has instruction concerning it been afforded to the students of our metropolitan schools by systematic lectures, and even these are absent in some. But those who lecture know how vain a thing it is to describe insanity and insane patients to men who never see a single case. True, we have in the metropolis two large lunatic Hospitals, which would seem to exist specially for clinical instruction, and for the immediate reception of such urgent and acute cases as would serve admirably for the purposes of a clinique. But clinical teaching in them there is none, and there are so many difficulties and delays in the way of receiving patients, that one of them, at any rate, is half empty. Dr. Sibbald, however, draws our attention to the fact that at Berlin insane wards exist in a general Hospital. In the Royal Charité, insane patients are received and treated like the other sick :-

"Within the grounds there is a detailed block of validing the first and second floors of which are occupied by receive the first second floors of which are occupied by receive as of insanity. There is little in the construction of the health of the second floor of the second floors of the second floors of the first second floors of the floor of the floors of the f

Dr. Sibbald, as an asylum Physician and now a Deputy Commissioner in Lunacy for Scotland, would naturally criticise with a jealous eye the management of such wards, and his testimony in their favour is most valuable. When special Hospitals have been condemned, we have always heard lunatic Hospitals placed in a category of their own, and lunatics spoken of as patients who could not by any possibility be treated upon the premises of a general Hospital. Yet it has been and can be done, and we trust may be one day done in London as well as in Berlin. Asylums for the chronic insane there must be. The number to be treated in a general Hospital must necessarily be small, but a small number would suffice for clinical instruction. It is not to be expected that every one of our Hospitals should open such wards, but if schools were amalgamated, as we trust they some day will be, a sufficient number might certainly be instituted. Then, and not till then, will mental disease take its proper rank in our pathology. Insanity will no longer be a mysterious something upon which a lawyer is to be considered as good an authority as a doctor. Our students will be able to compare the unsoundness of mind depending on diseases now treated in general Hospitals with that which is called insanity, and at present relegated, as something

quite different, to a lunatic asylum. Doubtless, the governors of our Hospitals would at first shrink in horror from the prospect of opening a lunatic asylum, and cacountering Commissioners, Acts of Parliament, and other such bugbears; but we are told that the thing exists, and we hope that some day it will exist here. The importance is so great that we would beg for it the serious consideration of the Profession, and through the Profession of the public, who are vitally concerned in the lack of instruction under which the Profession now labours.

STRINGENCY OF MEDICAL PARTNERSHIP CONTRACTS.

A case of considerable importance to the Profession, Langstaff e. Butterfield, came before Vice-Chancellor Sir J. Stuart, a few days since. Mr. Greene moved for an injunction to restrain the defendant from practising as a Doctor of Medicine, Surgeon, or apothecary, in or within twenty-five miles of the town of Southampton, without the plaintiff's consent. The plaintiff, who had practised successfully for many years at Southampton, took the defendant, who had previously practised in Wales, into partnership in 1866. The partnership-deed contained the usual clauses for the management of the business, and also contained a clause that each partner should punctually pay his debts, and provision was made for the determination of the partnership upon the bankruptcy or insolvency, as well as of the death, of either of the partners. One clause, the twentythird, provided that upon the determination of the partnership by any means whatever, the defendant should not practise in Southampton or within twenty-five miles without the consent of the plaintiff, under a penalty of £2000 to be paid in liquidated damages; but by a proviso, it was agreed that on the defendant's paying £1650, the moiety of the estimated value of the business at that time, to the plaintiff, he should be at liberty to practise. Shortly after the execution of this deed, the plaintiff discovered that defendant was involved, and two years later one of the creditors obtained a judgment, and threatened to issue execution against him. A new agreement was then entered into between them for the dissolution of the partnership, in which the clause restraining the defendant from practising in or near Southampton was embodied. The plaintiff employed the defendant from that time at a monthly salary, and he in that capacity continued to attend the public Dispensary to which he had been appointed Surgeon. In September he gave the defendant notice to terminate this engagement. The defendant applied to him for his consent to his continuing practice on his own account, which the plaintiff refused; and, on his continuing to practise, the present bill was filed, under which an injunction was now moved for. It was contended, on the part of the defendant, that, accepting the plaintiff's statement of the facts, the case was one of great hardship. The defendant had left his practice in Wales to join the plaintiff, and after practising with him for two years, was, upon getting into difficulties, induced to enter into an agreement, under which the plaintiff obtained the right even to use the defendant's name. This agreement was unsupported by any consideration, and on the grounds of public policy, on which the Court set aside contracts in restraint of trade, could not be supported. The Vice-Chancellor, however, without calling for a reply, said he could see no hardship in the case. The hardship would be upon the plaintiff, if he were refused the injunction, to which he was clearly entitled. He would, however, suggest that, under the circumstances, the defendant holding a public appointment, some arrangement should be come to between the parties. This, however, was only a recommendation on his part, as there was no doubt of the plaintiff's legal rights under the agreement, and the order must be made as

The case is one of importance, as it conclusively settles one point, respecting which some question had arisen in former cases. Was it necessary, under such an agreement, before the plaintiff could obtain an injunction, for him to prove special damages, as a breach of the covenant? This has now been shown to the contrary, and will have a salutary effect upon the Profession. The defence was totally untenable, insamuch as the defendant was not precluded from carrying on his Profession asywhere excepting in the locality clearly and distinctly specified.

THE WEEK.

TOPICS OF THE DAY.

THE result of the meeting of the Sub-committee of the Royal Colleges of Physicians and Surgeons, and of the Apothecaries' Society, which was held at the College of Surgeons, on Friday last, augurs well for the success of the conjoint examination movement. We hear that great unanimity prevailed between the different elements of which the Committee is composed, and that no small progress was made in the formation of a scheme. which will in due time be submitted to the contracting Medical authorities and to the General Medical Council. The Subcommittee was employed at the late meeting principally in the discussion of the composition of the Examining Board, and the nomination and number of examiners in the different subjects. If this very important section of their business be got through in a just and conciliatory spirit-and we believe that this is the spirit which is actuating all parties-it is easy to foresee that no insurmountable difficulty is likely to arise in the remainder of the Sub-committee's deliberations. We do not profess to be informed as to the programme which will be ultimately adopted; but we should think it probable that the examinations in Materia Medica, Chemistry, and Botany will take place at Apothecaries' Hall, the examinations in Anatomy, Physiology, and Surgery at the Royal College of Surgeons, and the examinations in Medicine and Midwifery at the Royal College of Physicians. examiners nominated by each of the three Medical authorities being present at all examinations. Such a plan would have the obvious advantages of utilising the existing machinery and appliances for conducting examinations which the various Medical authorities possess. We believe that the question of the co-operation of the Universities has not yet been discussed by the Sub-committee. When it does come under consideration, we hope that it will be canvassed temperately and impartially. We have always maintained that the co-operation of the Universities is greatly to be desired, and if the Universities are willing loyally to take a part in the work of the general examination of Medical men, submitting their own Medical graduates to the common test, that co-operation should be invited and welcomed. But, inasmuch as the Medical Corporations include the very flower of the Medical Faculties of the Universities, we cannot see that the cooperation of the Universities ought to be obtained at the price of allowing them to be the first exceptions to that very rule of uniformity which ideally makes their co-operation valuable. All that we ask of the Universities, is to decree that they will not confer their final degrees in Medicine and Surgery on those who have not passed the conjoint Board. If they concede this, we hope they will be represented in that Board by examiners, or at least assessors nominated by their governing bodies. If they refuse the condition, we shall regret that the ideal one-portal system is not yet realised, but it will be clear that the blame, if blame there be, will be at the doors, not of the Medical Corporations, but of the Universities themselves. The next meeting of the Sub-committee will take place on Monday, the 23rd inst.

We have heretofore noticed with entire approbation the proposal of the President of the Royal College of Surgeons, Sir William Fergusson, to form a collection of Surgical instruments and appliances in connexion with the Hunterian

The circular letter by the President, which we publish to-day, shows that the proposal has taken a tangible shape, has been approved by the Council, and is in a hopeful way to become a fast accompti. We can add nothing to the grounds on which Sir William bases his proposal ; in fact, the value of such a collection to all present and future students of the art of Surgery needs no exposition. But we would join with Sir William Fergusson in asking all gentlemen who possess or are forming such collections to give them, or, at least, bequeath them, or offer them at a reasonable price, to the College of Surgeons. Private collections are really but of little use, except to the possessor, and they are often scattered or forgotten after his death. The work of destruction, considering the durable nature of the instruments used in Surgery, has been surprisingly complete. Sets of Surgical instruments and appliances such as were used by Richard Wiseman are undoubtedly very rare, and even those of the time of Cheselden or Percival Pott are not common. We hope that the fortunate possessors of time-honoured armamentaria will respond readily to Sir William Fergusson's invitation, and that the result will be one worthy of the unrivalled museum of which it is to form a part.

The new President of the Pathological Society, Mr. Hilton, took his seat on Tuesday evening. Notwithstanding a very wet night, there was a large attendance of members of the Society. Mr. Hilton, in thanking the Society for the honour they had done him in selecting him as their President, said that pathology had made great progress of late years, and that although some time ago, working at the subject as he had done at his own Hospital, he had discontinued constant attendance at the meetings of the Society, he felt certain that he should gain much new and valuable information during his tenure of office. It seems probable, from the turn given to some of the discussions of the evening, that during Mr. Hilton's Presidency the practical bearing of pathology upon treatment will not be so rigorously excluded as under some of the former Presidents. For our own part, we rejoice that such is to be the case, as we believe it will give greater breadth and value to the Society's work. Under the late President, Dr. Quain, the Society raised itself from the status of a mere club for the exhibition of pathological specimens. The pathology discussed became, we think, wider and more philosophical. It will be still, however, an ascensive step if, whilst maintaining pathology and pathological anatomy as the real work of the Society, the new President is able by example and influence to direct the attention of the chief workers of the Society to the bearing which pathological facts have upon the life-business of the Profession. We cannot afford to forget that the only reason why the Medical Profession exists is that we may relieve human suffering, and cure or prevent disease. To lose sight of this, even for a few hours periodically, is, we think, a mistake. The result may very easily be a decadence from the high aim and scope of the practical Physician or Surgeon to those of the mere dilettanti philosopher.

Dr. Hermann Beigel, Physician to the skin department of the Charing-cross Hospital, has been decorated with the Order of the Iron Cross for personal bravery on the field of battle. Dr. Beigel is serving with General Mantenffel's army.

In a report to the Poor-law Board, on the present epidemic of small-pox, Dr. Bridges calls the attention of the Board to the time which might have been gained in meeting the epidemic had there been a registration of disease. Dr. Bridges writes:—

"Early in November, the Medical officers of districts and workhouses were requested to forward to me weekly returns of the number of small-pox cases under treatment. It was obvious that active measures for the isolation of the disease were necessary, and such returns would make it possible to estimate how far they abouth be earried. And here I may be, perhaps, permitted to point out the very great value which would have accrued in this instance from a systematic registration of contagious diseases, carried out by the parchials of Medical officers under the supervision of the Poor-law Administration. It is not too much to say that, at the least, three weeks would have been thus gained for preventive measures."

The deaths from small-pox last week were 135; those from scarlet fever 77. The proportion of deaths from small-pox was that of 22 annually to every 10,000 of the present estimated population. In the seren weeks ending Saturday list, the deaths averaged 81 per week. The Registrar-General

"The actent to which small-pox precuils in different parts of the metropolis, so far as the merality returns afford indication, can only be correctly ascertained by distributing the fatal cases occurring in the Small-pox Hospitals at Hampsteal and Islington amongst the districts whence the cases were brought. Thus, last week there were 30 deaths returned from the Northern group of districts, of which 25 occurred in the two Small-pox Hospitals at Islands in the odd stricts. Of the 25 fatal cases, 9 had been brought from the Eastern districts, while only 6 belonged to the Northern group lessel. After masking a correction of this nature for each of the five groups of districts, the mortation of the state of the state of each of the five groups of districts, the mortation of the state over 140000 of the present estimated population in the West, 14 in the North, 26 in the Central, 45 in the East, and 10 in the South districts. The rapid development of the spidenic in the Western group is apparent from the fact that out of an aggregate of 85 fatal cases returned during the last fifteen weeks, 60 have occurred within the last three weeks. In the two sub-districts of St. Ohn and St. Margaret, West-minuter, out of 70 deaths registered last week from all causes. It is the week of the sub-district of St. John and St. Margaret, wet-minuter, out of 70 deaths registered has tweek from all causes. It is the sub-district of St. John and St. Margaret, wet-minuter, out of 70 deaths registered has tweek from all causes. It is the week of the sub-district of St. John and St. Margaret, wet-minuter, out of 70 deaths registered has tweek from all causes. It is the sub-district of St. John and St. Margaret, wet-minuter, out of 70 deaths registered has tweek from all causes. It is the sub-district of St. John and St. Margaret, wet-minuter, out of 70 deaths registered has tweek from all causes.

The London Sick Asylum Board are erecting additional Hospital buildings at Hampstead, to accommedate 200 more patients, and another building of the same size is to be erected elsewhere. The Boards of Quardians of Paddington, Bethnalgreen, and other districts are being urged by the Poor-law Board to co-portes with the Sick Asylum Board by providing temporary Hospital accommodation within their own districts. There can be no doubt it is better to avoid the conveyances and if the precautions be taken to limit communication, it is desirable that an Hospital should be provided close at hand in each parcelaid division.

We hear that Mr. Jabez Hogg has been elected Surgeon to the Westminster Ophthalmic Hospital by a very large majority of votes.

SMALL-POX.

On Tuesday last the Vestry of Islington obtained a conviction under the 38th Section of the Sanitary Act, against a woman who took in mangling. It appears that some time ago, when small-pox was in the room she occupied, she was warned by Dr. Ballard, the Medical Officer of Health, but took no heed of the warning. On December 23, while another child was dying of small-pox in her rooms, she sent out, by her husband, certain articles of clothing which had been mangled by her and had been several hours in her rooms, without previously disinfecting them. On taking the things home, the husband, in reply to a question put to him, said that it was true there had been smallpox in the family, but there was no danger of infection now. A second summons, for a repetition of the offence a week later, had been taken out, but was withdrawn, in consequence of the absence of the witness to prove that the defendant actually mangled the articles. The defendant was fined 20s. and costs, and Mr. Cooke, who heard the case, desired that it should be made widely known that he highly approved of the step taken by the authorities, and that he considered the prosecution to be highly proper for the protection of the public against similar malpractices, especially at a time when small-pox was so alarmingly prevalent as the present.

It will be observed from Dr. Ballard's monthly report, that he

has urged the Vestry of Islington to take advantage of their powers under the 37th Section of the same Act to provide temporary accommodation for such small-pox cases as cannot be admitted into the existing Hospitals. The Sanitary Committee, leaving the paupers to be provided for by the guardians, in accordance with Mr. Jebb's circular, have recommended the vestry to adopt Dr. Ballard's suggestion, but only so far as to provide accommodation for such as are willing to pay for it. Their notion appears to be, that the rates should not be chargeable with expenses incurred for such persons. It is curious to observe how difficult local authorities find it to distinguish between relief and sanitary aid. One would think that, with small-pox spreading on all sides, it would have been clear that the simple separation of the sick, even in well-to-do families, from the healthy, is a measure for which ratepayers would be glad to pay. But no; they can understand curing the sick, but not preventing the spread of disease.

SMALL-POX JOTTINOS.

SMALL-rox may well be called the queen of epidemics, for it is of all the most loathsome and fatal. The chief point in which it differs is that, by the mercy of Providence, we have a protection. Vaccination is a means of implanting a vicarious disease-a kind of small-pox modified, which gives all the exemption given by the original disease, with none of its danger. In other respects, it obeys the laws which govern epidemics. One of the chief of these is, that they rise and fall in waves in series of years, just like the frost, the rain, and the fertility of the earth. Sometimes an attempt is made to connect these rises and falls with secondary causes, but what is true of one is true of all ; we do not ascribe the intermittent virulence of scarlet fever with any known external condition, neither can we that of small-pox. But small-pox, it is said, would not prevail to such a degree were it not for the neglect of vaccination. True, vaccination is neglected, but this cannot be all. Neglect of vaccination means that a certain number of persons continue able to take the disease, and to die of it, who, if well vaccinated, could not; but no neglect of vaccination could make the general character of an epidemic more virulent. There must be some intrinsic quality in the disease itself to explain this. Without doubt, unless one has been vaccinated three times already, it is better to be done again. The character of vaccination, and of small-pox of full severity, is time : smallpox and vaccination each requires three weeks; but small-pox, mitigated by previous small-pox or by vaccination, requires ten days. The repeated vaccination of adults is apt to produce a very sore arm, which is at its height on the fifth day. One point common to all epidemies nowadays is their tendency to occur twice to the same person. This was denied by our forefathers; so that at any rate it was rare. Now, cases of scarlating affecting the same individual twice are quite common. Small-pox may have this unpleasant feature also, and hence may derive its liability to occur after vaccination. Besides vaccination, every household should protect itself by a thorough rummage out of all fusty old woollen articles, old carpets, curtains, and the contents of old wardrobes and drawers. Medical men in attendance should wash their hands often with carbolic soap, and keep their months shut. The hands are the most likely parts to come into contact with small-pox contamination, and the nose is a better organ of respiration than the month.

PALSE ASSUMPTION OF A TITLE.

Ma. Buedens, a dispenser, of Dean-street, Soho, was summoned last week to Mariborough-street, for laving taken the title of Doctor, he not being registered under the Medical Act. He answered to the title of Dr. Burgess, and prescribed for the child of a working-man in a case which terminated fatally. He was fined £5 and costs.

THE CLINICAL SOCIETY.

THE annual meeting of this Society was signalised by the resignation of one distinguished President-Mr. Paget-and the election of another equally well known-Dr. Gull. In a few graceful words, Mr. Paget took leave of the Society and alluded to the merits of his successor. The treasurer's report was favourable, a balance of £206 in hand being reported. The most interesting portion of the evening's proceedings consisted in the renewed debate on the case of vaccino-syphilis, Mr. Brudenell Carter advancing the hypothesis that the ordinary signs of inherited syphilis might be induced in a healthy infant by vaccination from a syphilitic one. This position was strongly attacked by Dr. Cholmeley and others, who maintained that syphilis could only be communicated when a primary sore was produced. Mr. Thomas Smith pointed out that it could apparently be propagated by the seminal secretion of the individual suffering from constitutional syphilis, although it might be manifested by no eruption. On all hands it was admitted that the case was one of syphilis following vaccination, whether induced by it or not, although the general impression seemed to be that it was a case of true vaccine syphilis. The next meeting of the Society will be held at 53, Berners-street, on the 27th, when the new President, Dr. Gull, will, it is expected, address the mambers

ENIGHTHOOD, LEGAL AND MEDICAL.

"Osborne, January 14.—The Queen was this day pleased to confer the honour of knighthood on James Bacon, Eq., a Vicethancellor: and on John Maclean, Esq., of Pallingswick Lodge, Hammersith, Deputy-Auditor of the War Office."

Lawyers and civil servants of the Crown, civic and municipal officials, the army and navy, artists, musicians, architects, engineers, have received the honour of knighthood, with no niggravilly hand. Yet the Medical baronets and knights of England, Scotland, and Iretand could be counted on the fingers. It is confidently expected that when the Queen opens the new St. Thomas's Hopsital, this spring, the treasurer and the architect—two well-paid officials—will be knighted; yet no such reward is spoken of for either of the Physicians or Surgeons who represent the Profession which has done so much responsible and gratuitous work for the charity. We trust that the advisers of the Queen will direct attention to such systematic neglect of our Profession, and that some fair share of national reward will be allotted to those who do so much for suffering mankind and for the honour of British science.

BRITISH MEDICAL BENEVOLENT PUND.

THE annual general meeting of the Association was held on Friday, the 13th inst., at 11, New Burlington-street-Dr. Burrows, F.R.S., presiding. The report showed that, during the past year, the sum of £1061 had been expended in the relief of 124 cases of distress-many of these representing large families. The charity has also afforded annuities, amounting in the aggregate to £605, to thirty-three persons. The Committee has, on several occasions during the year, found itself greatly straitened for want of means, and many deserving applicants have in consequence been but inadequately assisted. The appeal which has been issued, and sent to every known member of the Profession in Great Britain, does not appear, as yet, to have produced so good an effect as was hoped and expected; but the Committee feels assured that the quietly working British Medical Benevolent Fund only requires to be more fully known to be more liberally supported by those who are blessed with the health and means denied to so many others connected with our Profession.

The following officers and committee were elected:—President; G. Burrows, M.D., F.R.S. Vice-Presidents: Edgar Barker, Esq.; Sir H. Holland, Bart., F.R.S.; H. Bence Jones, M.D., F.R.S.; H. Sterry, Esq. Trustees: H. W. Acland,

M.D., F.R.S.; G. Burrows, M.D., F.R.S.; Dr. G. C. Jonson; J. Paget, Esq., F.R.S.; E. H. Siereking, M.D. Other Members of Committee. E. H. Ambler, Esq.; E. L. Birkett, M.D.: W. H. Broadbent, M.D.; H. Bullock, Esq.; J. Churchill, Esq.; N. H. Ciltfon, Esq.; W. T. Dalby, M.D.; G. T. Dale, Esq.; Campbell De Morgan, Esq., F.R.S.; J. F. France, Esq.; J. Jerris, M.D.; J. Liddle, Esq.; W. Martin, Esq.; J. Morgan, Esq.; J. T. Mould, Esq.; W. Martin, Esq.; J. Morgan, Esq.; J. T. Mould, Esq.; H. R. Owen, M.D.; G. Suecker, Esq.; C. S. Webber, Esq.; E. Parker Young, Esq. Tressurer: C. J. Hare, M.D. Ilon, Scertairies, Stamford Feloe, M.R.C.P. (cases); R. Thorne Thorne, M.B. (finances). Votes of thanks were passed to Mesers. Churchill for the use of a room for the meetings, to the Tressurer and Hon. Sceretaries, and to the editors of the Medical journals for their ready assistance in promoting the welfare of the charity.

DEATH FROM SUPPOSED SUBCUTANEOUS INJECTION OF MORPHIA. THE newspapers record an inquest held on the body of Mr. Sutcliffe, late Physician's Assistant at the Royal Infirmary, Manchester. He was found dead, and as it was generally reported that he was in the habit of using morphia by subcutaneous injection, a post-mortem examination was made, to discover if any cause for death could be ascertained. Dr. Buckley deposed that there was no morbid disease sufficient to cause death. The liver and kidneys were diseased, the other organs being in a healthy condition, but congested. There was also congestion of the membranes of the brain. Witness found no traces of morphia in the stomach. He understood that the deceased had been in the habit of taking subcutaneous doses of morphia, and a dose acting on a depressed system might be fatal. There was a solution of morphia and a morphia syringe found in the deceased's room. He did not think that the latter article had been used, though it was possible it might have been. From what witness knew of the deceased, he did not think that he would intentionally take an overdose of morphia. The jury returned a verdict of " Death from toxemia. aggravated by a dose of morphia taken as medicine to provoke sleep."

MORTALITY OF THE WOUNDED IN PARIS.

THE following description of the state of the wounded in Paris is contained in a letter from a well-known member of our Profession, at present in that city. The letter is dated oth inst.:

Profession, at present in that city. The exter is unaccount max"As to the wounded here, the mortality has been fearful,
principally by pysmin and Hospital gaugrene. Overcrowing,
and insufficiency of air, of cleanliness, of food, and of strong wine
conduce to this, and I am inclined to suspect that conservative
Surgery has been carried too far. I suspect it does not do well
when large numbers of wounded have to be attended; either in
the same Hospital or in the same neighbourton-mercous, and
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wounded are comparatively four, different. Then, as regards
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THE DESIEGED IN PARIS.

Our readers will be glad to hear that Dr. J. R. Cormack, whose heroic determination to remain in Paris during the siege, with Mrs. Cormack and one of his sons and daughter, is known to our readers, has been heard of up to January 7. The account he gives of the disposition of the inhabitants makes us dread the scenes that may follow a capitulation. We say "inhabitants," because, in a letter of December 15, he say, "Here we are in Paris, without gas, meat, or milk, and without Parisians, for they all left when you field. The French are not going to give

in; I see no desire for peace now." The genuine Parisian has emigrated, or else is transformed into a desperate patriot. "Should Paris be entered by the Prussians," he says, "by capitulation or force there will be a general massacre of them, This will give rise to reprisals, and scenes more horrible than anything this horrible and infamous war has yet witnessed will be enacted in this city." Dr. Cormack doubtless well knows the spirit of the Parisians, but he need not think that the Prussians will let themselves be massacred very easily.

The following letter from Dr. Cormack has appeared in the Scotsman. We do not hesitate to give it a place in our pages as part of the Medical history of the war ;-

" Paris, January 1, 1871. "We are still alive : the intense cold, and the want of sufficient food and fuel, are telling terribly on health and life, and we cannot expect to escape the general suffering. I am fully we cannot expect to escape the general sunering. A san many occupied with my ambulance and other duties — in truth, never in my whole life was my time more entirely and, as I think, more usefully occupied. This keeps me from moping over present miseries, and unavoidable personal and family privations, to a wonderful extent. To many the siege has been a monotony of sorrow; to me and mine it has been one con-tinuous bustle and excitement. I have been in all the battles: and the preparing for them, and the 'cases' which follow, and the preparing for them, and the 'cases' which follow, exclude the possibility of serious reflection on the appalling situation of affairs. Yet, in wishing you many happy new years (as I now do right heartily), I feel constrained to tell you what I think is to be the end; and this desire leads me to ask myself whether I have any clear thoughts as to the most probable disonessent of the war. I confess I am quite unable to come to even a probable guess. I know nothing, or at least very little, of what is being said and done beyond this isolated city, so that I have no elements from which to form any conclusions. Were I to judge only by what I see and hear around me, I should say that a supreme effort will be made, whenever a thus comes, to cut through the Prussian lines, so as to save the army of Paris and its splendid artillery, joining, if possible, one of the provincial armies, about which we know little. Should Paris be entered by the Prussians after a capitulation or by force, there will be a general massacre of them; this will occasion reprisals, and scenes more horrible by far than even this horrible and infamons war has yet witnessed will be enacted in this city, which, when you last visited it, was vainly, vauntingly talked of by its inhabitants as 'the capital of civilisation, but which, in point of fact, was rather the head-quarters of atheism and social corruption. Be the denomement what it may, Paris will, I think, arise with France regenerated. Sombre though Paris now is, the social atmosphere is purer-men are men, and women are women. All are brave and ready to suffer and die for 'la patrie.' Such being the state of matters, my sympathies for 'la patrie.' Such being the state of matters, my sympathies are all with France. I go on with my neighbours hoping against hope, and encouraging all around me to do the same.

"For some days the forts on the east of Paris have been bombarded-at times with tremendous fury-but no great injury to them has been inflicted. The dead and wounded are horribly mangled by shot and shell, but they are not numerous as compared to battles we have had-even small battles. nearest Frussian shells have been at Vincennes, which is five miles from 7. Rue d'Aguessean. Batteries exist, however, it is stated, which could send shells into the Palais Royal.

"The public health looms ugly in the returns issued to-day and I suspect the whole truth is not revealed. We are told that the week which ended on Friday, December 30, is the most doomy in respect of mortality which we have yet had, the deaths having risen from 2728 of the previous week to 3280.

To this enormous total, small-pox contributed 454, and typhoid Purulent infection, following Surgical operations and gunshot fractures (as well as other gunshot wounds), has been fearfully fatal in the large Hospitals and ambulances; in the Grand Hotel, which is an ambulance with 500 beds, and celebrated Surgeons, nearly every operation is followed by death; the small ambulances, the detached wards—I mean such as my twenty beds in two wards of ten each—are more easily kept sweet. Yet, with all care, some cases are lost when the worst seems past. This morning, at seven o'clock, I lost a fine fellow (a Breton) from pysemia. He had a dreadfully com-minuted fracture of the thigh, and was saved from then imminuted fracture of the thigh, and was saved from the highest pending death by hemorrhage by me on the heights of Champigny on the bitter cold night of December 2. I took him from under the noses of the Prussians under very peculiar circumstances, and when I placed him on a mattress in my

ambulance rolante, I felt the pleasure of having saved a life. This man's death is therefore a great sorrow to mo; but all around me sorrows prevail—less among my wounded, however. than might be expected.

"I ran, till the day before yesterday, prevented by duties, and since then by illness, from finishing my letter. I am much better this evening, and hope to get out a little to-morrow. We are now being bombarded. Two shells fell last night near the Pantheon, and the viaduct of the Ceinture Railway was twice hit by shells from Meudon this afternoon. The bom-bardment of Paris will make resistance more inveterate and furious. If the Prussians come in, 'Fe victoribus!' will be the cry. I have had several severe cases of frost-bitten feet and

FROM ABBOAD .- STRYCHNIA IN AMAUROSIS-PROFESSOR BILLROTH'S LETTERS FROM THE SEAT OF WAR.

PROFESSOR NAGEL, of Tubingen, has communicated an interesting paper, in the Centralblatt for December 24, on "Strychnia as a Remedial Agent in Amaurosis." After referring to the various trials which have been made of it and nux vomica in England and Germany during the last half century, he observes that the remedy had gained from these a very doubtful reputation, the instances of recovery being regarded for the most part as inexplicable matters of curiosity. His own experience, carried on for some years, has yielded much better results, having convinced him that strychnia is a most valuable remedy in amaurosis, and, applied in the right way at the right place, is productive of very favourable and sometimes of very surprising results. So peculiar is its influence on this disturbance of vision, that its more exact study may be expected to elucidate the general theory of strychnia poisoning, and it is thus invested with more than a mere ophthalmological internet

Professor Nagel has already made a communication on the subject to the Wurtemberg Medical Society, but he is also desirous to bring it under the more general notice of the Profession. He gives a few selected examples. Thus, a boy, 3 years of age, the subject of measles, awoke out of prolonged and deep sonor, blind of both eyes. Only a trace of a sense of light and pupillary reaction remained, while to the ophthalmoscope all seemed normal, no signs of neuritis optici being present. The blindness had lasted several weeks, some visual power only having very slowly returned. Rapid and complete recovery was produced by strychnia-the consequence of each injection, consisting in a considerable increase in visual power, being perceptible at the end of half an hour. For effecting complete recovery, only four injections were required, one-ninth of a grain of strychnia being the whole quantity employed. In another case, of a lad, aged 15, two subcutaneous injections effectually cured a partial unilateral amaurosis, scarcely onefourteenth of a grain being employed, the effect commencing in a few minutes, and reaching its maximum in less than an hour. In cases of slight amblyopia, with paresis of the retina arising from various causes, good effects are produced in from fifteen to thirty minutes. After commencing, or even tolerably far-advanced atrophic degeneration of the optic papilla, as shown by pale and superficial excavation, strychnia is often of avail-a fact of which no example has hitherto been recorded. It is obvious that in many of these cases, hitherto regarded as incurable, we must rest content with imperfect results, satisfied if able to prevent complete blindness. The earlier the strychnia is resorted to, the better will be the results. In some desperate cases, not only has the progress of the disease been arrested, but considerable improvement has been effected, this being sometimes only temporary, and at others durable. In a case in which the amaurosis manifested all the character of rapidly progressive malignity, the diseased process was brought to an almost sudden stand-still, a portion of visual power remaining stationary. For more than five years after the nee of the strychnia, the patient has continued able to

walk about, and can decipher print, in spite of a shining white papilla. In some cases of intense whitening of the papilla, a decided improvement in the appearance of this has been observed, in consequence of a partial reproduction of the capillary redness. It is of physiological interest to note that, in excessive amblyopia due to long disuse, and in which the outer half of the retina has undergone great decay, the strychnia exerts great effect. An eye which could only count the fingers at a few feet distance, was, fourteen days later, able to decipher fine (Juger No. 3) print. In traumatio amaurosis its effect has several times proved striking. At the present time, Dr. Nagel has a remarkable case of this kind in his Clinic, in which some hypodermic injections produced, in a few days, useful visual power, although the optic nerve exhibited decided anaemia and pallidity. The present war is only too fertile in traumatic amanrosis. Grazing shots and contusions of all kinds may induce paralysis of the retina, either in a simple form or complicated with various lesions; and it is to be hoped that in these cases, which yield with such difficulty to other means, the curative effects of strychnia will be essayed.

From the experience he has had in the employment of this substance, Professor Nagel feels himself entitled to say something in the matter of prognosis. The most complete results are to be looked for in cases of no-called pure awardness retime. Most cases of essential amazurosis, in which too great physical changes in the optic nerve have not occurred, are suitable for its employment; symptomatic overerbard and spinal amazurosis are so only within narrow limits; while toxical and traumatic ambiyopis and amazurosis are especially adapted for its use, In marked degeneration of the connective tissue of the optic nerve, the remedy should not be employed, as its character would only be compromised. Nothing is to be expected from it in neuritia optic intrasociaris and its consequences; and cerebral irritation and tabes are contra-indications of its employment.

Hydrate of chloral will be found very useful in combating the sleeplessness so mischievous in amaurosis, as also in dissipating the slight ill-effects of the use of strychnia, while it does not interfere with its curative agency.

Continuing the perusal of Professor Billroth's letters, in order to select points that may be of interest to our readers, we next come upon the question of treating the badly wounded in private houses. All d priori reasoning, he observes, is in favour of this, as we are thus enabled to isolate them, and protect them from that terrible infection produced by the presence of other patients. His opinions on this point soon underwent a rapid change, and he now pronounces any such procedure as utterly impracticable. The little town of Weissenberg, with its 5000 inhabitants, when fear of bombardment had passed away, soon became crowded with wounded, and the citizens willingly received them into their houses, especially as it at first was supposed that this might save them from having soldiers quartered on them. However, it was found impossible to make such exceptions, and, moreover, the horrid din going on day and night in the streets encumbered with troops, ammunition, and provision waggons, utterly prevented all sleep or quietude. Other objections to this distribution of the wounded were, the temporary exhaustion of the supplies of food in the town, and the impossibility of so organising the volunteer nurses as to impart unity of action and supply sufficient numbers. Moreover, the supply of experienced Surgeons was far too small to allow of their activity being too diffused. A Surgeon of even untiring industry, and with efficient assistance, cannot, at the very most, treat carefully more than from fifty to sixty badly wounded patients in a day, even when he has them all on one spot. If they are in localities far apart from each other, forty or fifty are a great many to treat; while if all or most of them are in different houses, to which splints, apparatus, etc., must be transported, the number capable of being treated by one person becomes diminished to twenty-five or thirty. Such a distribution, therefore, implies an amount of Surgical and nursing personnel

that it ceases to be procurable. Moreover, the cases are treated at great disadvantage upon the occurrence of secondary accidents, and in respect to space and ventilation. In proof of this, Professor Billroth cites several cases that terminated fatally which might have done well in a Hospital. The slightly wounded and convalescent may, however, be advantageously treated in private houses. Many of these objections are likewise applicable to small Hospitals in small towns. On another occasion, Professor Billroth hopes to point out what is true and what is erroneous in Simpson's views as to the superiority of small civil Hospitals, in regard to their comparative immunity from pyzemia; but, in the meantime, he would regard it as a calamity if his views were allowed to provail with respect to military Surgery. The older Surgeons of small towns have, as a rule, too rare opportunities of treating Surgical cases to be enabled to pursue the correct diagnosis and treatment of bad gunshot wounds of the bones and joints-cases which often involve the greatest difficulties for the most experienced Surgeons. Absolute cleanliness, and a thorough carrying out of modern sanitary rules in the treatment of difficult Surgical cases, are only possible with a certain abundance-we may almost say, profusion-of material for the care of the sick, which is not attainable from the limited resources of small Hospitals in small towns. His visits to many small localities near battle-fields, in the north of Alsace and the Palatinate, have convinced Professor Billroth that it is an illusion to suppose that wounds there heal better, or that pyaemia is less frequent than in the great military Hospitals.

As he has had to touch upon this somewhat delicate point, Professor Billroth takes the opportunity of expressing his opinion concerning the Surgical capabilities of the Practitioners he was brought into contact with. He is of opinion that a knowledge of Surgery and its operative procedures has, of late years, made great progress, both among the civil and military Practitioners of Germany. In almost all the civil and military Lazareths which he has had occasion to inspect, he has seen apparatus of the most various descriptions admirably applied, and operations that have been well executed. The improvement witnessed is mainly attributable, he thinks, to the influence of Professor B. Langenbeck -not that there are not also other Surgeons eminent in their respective circles; but then these circles are so narrow as compared with that of Langenbeck, which has gradually stretched itself all over Europe and beyond it. Among the students of the last twenty-five years, Langenbeck has been the most popular of teachers, not only because of his remarkable scientific eminence, but still more in consequence of a charm which he personally exercises over them, just as strongly at the present day as he did thirty years since. He, however, could not prevent too many persons devoid of talent and of limited capacity entering upon the study of Medicine; and the evils springing from defective capacity cannot be repaired even by great industry and erudition.

"In the hands of such colleagues, everything good becomes percerted. They apply the gypsum bandage, without ease or understanding, in the most dangerous manner, and cut down for bullets day after day without finding them; they are unable to form a diagnosis, and apply no apparatus, calling this conservative Surgery. Hemorrhage is arrested time after time by the use of the sesquichloride, and they are much surprised to find the patient at last drying chanseled. I week undisturbed, because they complain of the pain when moved, it not being observed that they are sinking fast from bedoorse. These are things not to be put to rights by learning, but by the possession of a sound understanding, a talent for observation, and some power of thought. The teachers of Surgery are not to be blanded, for pulpies of this kind, if they were set right in twenty cases, would on the twenty-first again coverlook the sexualities, and in the control of the second of the been due to consultations with colleagues of this description; for I have always hid it down as a principle, even in such instances, not to shake the confidence of the patient in his attendant, believing this the worst service I could render to the suffering man who has no other Practitioner to resort to. The susceptibility of colleagues is, however, not always capable of being spared. Quite surprising to me, during this war, has been the feverish eagerness for operating which has seized Practitioners who, perhaps, during their practice have never handled a knife. I would not willtheir practice have never animed a knite. I would not win-ingly undertake the treatment of typhus or pneumonia, yet I found Practitioners eagerly extracting bullets, and opening abscesses by the dozen. A colleague told me frankly that he dared not, on account of public opinion, abstain from treating the wounded, for it might be thought that he did sofrom indolence, or even from not knowing anything about Surgery, which would injure him much in his future practice."

(To be continued.)

SANITARY POLICE REPORTS.

WESTMINSTER POLICE-COURT.

THE SMALL-FOX.—A working-man came to the magistrate and asked what course had better be pursued to obtain a refuge for a poor young man afflicted with small-pox, which is at present

very prevalent in this neighbourhood?

very prevaent in this neignbournood:

Applicant said he found the young man that morning in
front of the Westmiuster Hospital, and ascertaining his
diseased condition, and that he had no place to go to, he took
him to the Westminster workhouse. They refused to admit him, and told him to go to the police-station. Applicant took the youth there, and was referred to the magistrate.

Mr. Arnold observed that he really did not know what to do. Mr. Affold observed that he really due not know what to uc. Applicant said it was shocking to see a poor man in such a state wandering the streets. He had only been influenced in coming forward by motives of humanity. The young man had nowhere to go to, and although he had an in-patient ticket for the Westminster Hospital, they could not receive him for want of room.

Mr. Arnold immediately dispatched Davis, the warrant

Mr. Arnold immediately dispatched leaving, the warrant officer, with the poor young man to the workhouse. The officer subsequently reported that he was taken in Mr. Henry Brookling, Sanitary Inspector of St. Margaret's, Westminster, applied to the magistrate for an order for the immediate removal and burial of a poor man lying dead of small-pox at No. 1, Henry's-place, Westminster. He said that he had that day received information that the man was lying dead in the house, which was inhabited by other persons. He found him lying dead in all his clothes, and his three young children were alive in the same room. He obtained a certificate of the cause of death, and also a certificate for the removal of the body. He took them, by direction of the relieving officer, to the master of the workhouse, who had the hearse and other appliances for removal at his command, but he refused to take any action in the matter, or to look at the certificates or a letter on the subject.

Mr. Arnold promptly made the required order.

THAMES.

How SMALL-POX IS SPREAD IN THE METROPOLIS .- Rebecca Jacobs, a young woman, dwelling at No. 6, Boar's Heac-court, Whitechapel, appeared before Mr. Paget to answer a summons taken out by Inspector Gee, of the K division of Metropolitan Police, and which charged her that, on December 17 last. being then suffering from the small-pox, she did unlawfully enter a public vehicle without notifying the same to the driver

The defendant, who was very ill, and has recently been under Mcdical treatment for small-pox, was accommodated

with a seat.

On the day named, a cabdriver named Thomas Guyatt, badge No. 4142, was hired by a man in the Whitechapel-road, and directed to drive to Boar's Head-court, where the man and a directed to drive to Boars Head-court, where the man and a woman brought out the defendant, who was well wrapped np, and carried her and placed her in a cab. The porter at the White-chapel Union-house, where he was told to drive, discovered that the defendant was labouring under the small-pox, and by his direction she was conveyed in a cab to the small-pox ward in Pavilion-yard.

Mr. Paget said he did not think he could convict the defendant. She certainly ought to have given notice to the cab-driver that she was labouring under a contagious disease, but she did not hire the cab. He recommended the inspector to withdraw the present summons and take out another against

the person who hired the cab, and who seemed to be the real offender.

Inspector Gee complied with the wishes of the magistrate. and the defendant was discharged.

This week, at Worship-street, a man and his wife were each fined 10s. and costs for having sent home to the house of a laundress, without having previously disinfected it, the linen that had been worn by a person suffering from small-pox.

At Clerkenwell, a lodging-house keeper was summoned for not having given notice to the police that a person was in his house suffering from the same disease. The hearing in this case was adjourned.

HISTORY OF THE FIRST FRENCH VOLUN-TEER AMBULANCE.

By ONE OF THE SURGEONS. Now prisoner of War at Versailles.

(Continued from page 52.)

EARLY next morning, the 16th, a peasant came to tell us of some wounded in the villages beyond Borny. They had heard

some wounded in the villages beyond Borny. They had heard of our expedition of the previous day, and now begged us to make the same attempt on their behalf, which to us, as "internationals," would probably be granted.

To be wounded and left with the enemy is perhaps the

reatest misfortune which can fall to the lot of a soldier, and this, if possible, is more felt by the French than any other troops; for, as a general rule, they know no language but their own, and but little of the manners and customs of other nations. A few waggons were immediately made ready and ordered to start in the given direction. In the first village, Montoy, we found nineteen of our wounded, one a captain. acmony, we round nuseteen of our wounded, one a captain. The joy of these poor fellows, when they heard that we had come to take them away, was beyond description. All were perfectly attended to, and in every way well treated, by the Prassians; but they preferred to go with us, in spite of the pain which they must naturally suffer from the transport; that even the necessaries of life should late he was not the second of the should late he was not the second of the should late he was not the second of the should late he was not the second of the should late he was not the second of the should late he was not the second of the should late he was not the second of the second of the should late he was not the second of the s later be wanting there, was at that time unknown to any of us. In the second village, Noisseville, we were less fortunate. Of the twenty-one wounded there lying, not one could be moved. It seemed as though this collection had been made on purpose to depict the horrors of war and the frightful wounds of modern weapons. A goodly number of the cases were fractures of the femur; one I recollect well—a fracture of both femurs, produced by the same projectile, in a young lad, only 18 years old. It was a case for double amputation, but the Surgeon—more from pity than judgment, I think—wished to make the attempt of saving one of the limbs. The washed to make the attempt or saving one of the mmbs. Interpretain apparatus almost universally used for the treatment of such fractures by the Fruesians, as far as I have been able to see during this war, is the plaster of Paris bandage; and this, I do think, they know how to apply with more desterily and neatmost than the French. Plaster of Paris being everywhere plentiful in France, the application of these apparatus has been wrought with less difficulty than perhaps any other which could have been adopted. Of the old Sculfettus bandage, so very generally made use of all over France—indeed, the army Surgeons scarcely ever apply any other—I have not seen

army Surgeons searcoly erer apply any outer—I have no seem a single example. At Lauvallières, the adjoining village, I found a soldier lying upon some eitraw under a tree. An under-assistant, the only person near, and apparently believing me to be some sort of a personage in his own army, explained that the man had only just been brought from the field, and therefore the apparent of the control of the control of the personage in the control of the cont of the neck from side to side, near the fifth or sixth cervical of the neck from size to sain, east the fitth of sixth cervical vertebra, doubtless wounding the spinal cord, for the upper and lower extremities were completely paralysed. All the poor unfortunate asked me to do for him was to place something over his face to keep away the flies. Our last village to go to was Colombey, about one mile distant from the château of the same name already mentioned. We there found a major and four privates, all quite willing and, excepting the major, in a condition to be moved. A ball had struck this officer near the posterior bounds of the axilla, and, passing in and upwards, was lodged in the groove formed by the lamella and the spinous process of the seventh cervical vertebra. The patient suffered, but preferred to be taken to Metz. The hypersesthesia of the extremities, and all the body below the wound, was such that the least pressure produced excruciating pains. We managed to put the patient, without raising him from his mattress, into a waggen, well filled with straw. I saw this case two months

later, almost completely cured.

mer, amost completely cured.

The only place where the people had remained at home was this one—Colombey—and the contrast of things was quite marked. Here everything was upside down, of course, but nothing taken, nothing wantouly destroyed. Not so in houses left uninhabited; these suffered terribly. The French soldier understands pillaging perfectly, and does so whenever a good occasion offers; but the Gernans are not inferior to them in this respect. Many a proprietor will find his home sadly changed; the destruction in some cases is carried to such a degree that nothing has been spared, even doors and windowframes have been torn away to serve as firewood. Northern American armies invaded the South, they left a black streak behind them; their Saxon brethren have taken the saves centure them; their saxon orethren have taken the lesson. However, I must say, in justice to all, that wherever the inhabitants have remained at home they have little to complain of more than having been called upon to furnish food and shelter for the troops. In proof that the French do as much, persons have told me, who have had both French and Prussians quartered upon them, that they would sooner have the latter than their own countrymen. We had thus, in these two days, thanks to the Geneva Convention, saved six officers and proof for the country of the co ninety-four men the journey to Prussia, where have been sent all our transportable wounded in the enemy's hands.

(To be continued.)

REVIEWS.

Vol. IV., second edition. Holmes's System of Surgery. Longman and Co.

THE various additions made to each volume of this well-known work, and the introduction of numerous woodcuts, have considerably increased the value of the second edition now being issued from the press; the number of volumes also in the series issued from the press; the number of obtaining will be five instead of four. Consequently, the recently published—the fourth—volume, now before us, only partially made to the fourth relying of the first edition. It comcorresponds to the fourth volume of the first edition. It com-mences with Mr. Athol A. Johnson's paper on Discases of the Joints, and ends with Mr. Charles Hawkins's essay on Lithotrity, thus containing about half of the material of the third volume, and leaving the same proportion of the fourth volume of the earlier edition for publication in the forthcoming fifth volume.

Dr. J. Lockhart Clarke contributes a short paper on Locomotor Ataxy, and Mr. Arthur E. Durham, in his two papers on Diseases of the Nose and of the Laryax—the former bung so far modified from that by Mr. Ure, in the preceding edition, that it may be considered original—gives a full description of the most recent methods of rhinocopy and description of the most recent methods of rhinocopy and laryngocopy, and other various instruments employed in the treatment of diseases of the upper air-passages. These, we believe, are the actually new materials of the prevent citizen, but all the papers have evidently been carefully revised, and the well-established regulation of the several authors is a nut. ficient guarantee that the information is sound, and brought up to the most recent date. A very beautiful chromo-lithograph illustrates Mr. Poland's paper on Urinary Calculi.

NEW BOOKS, WITH SHORT CRITIQUES.

Introduction to the Study of Inorganic Chemistry. By WILLIAM ALLEN MILLER, M.D., etc., late Professor of Chemistry in King's College, London. Longmans.

*. This work, which is one of Longmans' "Text-books of Science," was completed by the late Professor Miller, and he was engaged in reading the proof-sheets when he was seized by his fatal illness. By Professor Miller's request, the task of carrying the book through the press has been performed by Mr. C. Tomlinson. To us it seems one of the most pleasant. easy, and attractive introductions to a confessedly difficult science that we have seen. Every step is illustrated by ex-periments to be performed by the student himself, for which full directions, aided by excellent wood engravings, are given. It seems exactly the book for the teacher of chemistry in public schools and mechanics' institutes to use as a text-book. We can also recommend it to the Medical student as a book intro-

ductory to the larger manuals. We are certain that much of the repagnance which many of our Medical students feel to the study of chemistry would give way to a directly opposite feeling if they commenced the study with the enders of the a book as the one we are noticeing and the study such as a book as the one we are noticeing and the study such as apparatus. The way have to master the theories by which the experiment of the study of the study of the study of the compensation of the study of th facts are explained and the symbols by which they are repre-

What is Malaria ! and why is it most intense in Het Climates?

An Inquiry into the Nature and Cause of the so-called Marsh
Poison, By C.F. Chimara, M.R.C.F.E., MR.C.S.E. London:
Lewis, 1871. Pp. 186.

4. This is a book combining the results of scholarship and

4. This is a book combining the results of scholarship and

of practical experience, and well worth reading, not only by those whose duties bring them into contact with malarious those whose duties bring them into contact with maintain disease, but by all who desire to test the soundness of generally received Medical dectrines. The writer, upon purely independent experience and reasoning, argues that "malaria" has no existence, and ascribes its alleged effects to chill. But we must lay before our readers a fuller account of Dr. Oldham's

1. Half-Yearly Abstract of the Medical Sciences. J. and A. Churchill.

2. Braitheaits' Retrosper of Medicine. Simpkin and Marshall.

• • 1 In he been said that comparisons are odious; so they may be but, like odious people, they may sometimes be useful. We cannot compliment the editor of the "Abstract", except on industry with the scissors. We think his work wants life, augustation, method. It contains a good deal of information its irred huit to back who manuscraft wants pures supertion, it is true, but it lacks the manner—it wants more super-vision. The "Retrospect" sustains its well-earned reputation, not only for the carefulness of the selection made by the editors, but for a healthy and invigorating tone, and for the admirable "synopsis" of its contents.

East and West. By the Countess SPENCER. Longman. . An eloquent account of what may be seen and described by a generous, large-hearted woman in the wretched East of London. Mission women can effect wonders, when under proper superintendence, and when adequately supported by means.

The Naval Medical Service: its Present State and Prospects; with Suggestions for its Improvement. By F. J. Brown, M.D.

An able and practical view of the entire subject, by a who thoroughly understands it. We recommend the man who thoroughly understands it. We recommend the attentive perusal of the veteran reformer's brockers to our readers.

PROVINCIAL CORRESPONDENCE.

SCOTLAND.

EDINBURGH, January 17.

(From a Correspondent.) THE FEMALE MEDICAL STUDENT.

On the vexed question of the admission of female Medical students to the ordinary Medical classes, two more battles on an entirely new battle-field have now been fought. Already this session the General Council of the University, the managers of the Royal Infirmary, and the Royal College of Surgeons have pronounced against mixed classes, and now the ourgeons have pronounced against mixed classes, and now the general public, who, as contributors to the funds of the Royal infirmary, have this single opportunity of speaking on the matter, have, at their annual meeting hold on January 2 and yesterday, twice condemned the proposed innovation.

yesecuay, whose concemness the proposed amovation.
On January 2 an attempt was made to turn out of the
Board of Management several of its most efficient members,
simply because they were opposed to the admission of female
students to the wards of the Infirmary, and to fill their places

with others favourable to that measure

with others involutable to that measure.

It may seem—as it certainly was felt by many, at the time,
to be—absurd that, at a period when the duties of the new
Board in connexion with the creation of a new Infirmary will be unusually onerous and responsible, such a question as the admission of six or soven females into the wards should have influenced any number of the contributors in making their selection. Such, however, was the case, and the attempt made by those who allowed such considerations to weigh with them by those who allowed such consuperations to weign with them very nearly succeeded. Indeed, whatever grounds of complaint the female Medical students may have, it must be admitted by them that their affairs have monopolised a large amount of the time of public meetings this year. I shall not enter into the details of the first meeting of the contributors, which on both sides abounded in weak regument, and certainly exhibited the future female Dector in a most unlovely aspect. You have already given a specimen of the speech of Mais Jez Blaka, dif r rumour is true, it is likely to lead to its natural result—an action for liber.

Upon this disgraceful scene we will let the curtain drop. The adjourned meeting of the centributors took place yestorday, in the Queen-street Hall, which from an early hour was densely crowded. A large number of students gathered in the back gallery, and took a lively and noisy interest in the proceedings. It was generally understood that the friends of the ladies, having failed to get their representatives into the

management, were to attempt to coerce the newly-elected managers into being their friends.

Professor Charteris moved—"That, in the opinion of the Court of Contributors, it is highly desirable that the managers of the Royal Infirmary should make immediate arrangements for the admission of all registered students of Medicine to a qualifying course of instruction in that instinatory of the contribution of the contribution of the contribution of the contribution of Medicine, and pointed out the hardship of refusing to allow those sween women, who had already attended eight out of the fifteen classes requisite for a Medical diggres, to complete their studies. He appealed to the meeting to allow them, at least, to reap the reward of their long to allow them, at least, to reap the reward of their long of the contribution of the Royal Infirmary. He admitted that there might be case in which it was inexpedient to perform operations before a mixed class, and that these cases should be dealt with as they occurred. His own experience as a clergyman led him to believe artrong-desire to lase of patients sent to the Infirmary there was artrong-desire to lase of patients sent to the Infirmary there was attended to the contribution of the contribution of

to all women who desired fo enter the Medical Furfession. Sir James Coxe seconded the motion. He doubted the legality of the power which had been exercised in the exclusion of the ladies from the wards of the Indirary. "This you will at once see," he said, "If we suppose the managers were example, that their polarest students, on the ground, for example, that their polarest students, or the ground, for example, that their polarest students, or the ground, for instruction to niggers." He asked If, under such circumstances, a coloured student were to demand as a right admission to the wards of the Infirmary, would the managers be justified in excluding a female regarder would they be justified in excluding a female regarder would they be justified in excluding a female regarder would be an innovation, and it might be a dangerous innovation if carried to the extreme of mixed classes. But this was not what was wished. However, a little further on in his speech was said, in England and on the Continent, round, proceeding, and well-educated narses present in the Hospitals without any immorality having resulted. But even admitting that good grounds may be advanced against the association of male and female students by the bedshot, he thought that eighty bed female students knocking at our gates. But if such a demand really oxisted, he thought it ill became the managers of the Royal Infirmary to place an insurmountable bestated in their

Miss Nichol proceeded to show that there was such a denand. Indeed, she was commissioned by the large (!) number of 1328 women residing in Edinburgh and other parts of the United Kingdom, 201 of whom are donors or subscribers to the Infirmary, to ask the following question:—If the students studying at present in the Infirmary cannot contemplate with equanimity the presence of ladies as fellow students, how is it possible that they can possess either the scientific spirit or the personal purity of mind which alone would justify their presence in the female wants during the most delicate operations on, and examinations of, female patients?

If the speeches in favour of the ladies were characterised by

If the speeches in favour of the ladies were characterised by shadowy sentimentalism, indefiniteness, and poverty of argument, when we come to those on the other side we find clearness, vigour, and abundance of sound argument.

Professor Muirhead moved as an amendment—"That the Court is of opinion that the question of admitting students,

whether male or female, to clinical instruction in the wards of the Infirmary, ought to be left entirely to the decision of the managers." He had since his first interview with Miss Blake, managers." He had, since his first interview with Miss Blake, been consistently of opinion that the idea of introducing women to general practice was a mistake. While intrinsically its propriety might well be called in question, they have, he thought, neither the nerve nor the physical strength requisite for the exigencies of so arduous a Frofession. He admitted that they might practice with advantage among women and children, and would like to see Hospitals of that kind opened to them, and special instruction afforded to them for that purpose. He looked upon Dr. Charteris's statement as one-sided; and questioned the ability of a gentleman who had become a Member of the Corporation on December 31 to be in a become a Member of the Corporation on December 31 to be in a position to propose, two days afterwards, an instruction to the managers on a matter which they had taken more than a month deliberately to consider. He proceeded to show that the question was more one of expediency than of principle. He denied that the ladies, as matriculated students, are entitled to ad-He denied mission to the Royal Infirmary; and stated that this was the first question considered and settled in the negative by the managers of the Infirmary before giving their decision against the ladies. "I admit," he said, "they are matriculated students, although it is equally the fact that they do not attend a single lecture within the walls of the University. But that matriculated students are the said of the University. lation of theirs confers on them no right to be admitted to the mards of the Infirmary, which is altogether an independent institution. True, they are in the register of the General Medical Council, but that register is not a statutory record like the record of Medical Practitioners, but one that has been instituted by the Council itself without any legislative authority. Although serving many important and useful purposes, yet it does not, and does not pretend, to control or interfere with the administration of Hospitals throughout interfere with the administration or respirate involutional this kingdom. In point of fact, no matriculation or registration of these ladies gives them any right whatever to be admitted to our wards. The chatter of the Infirmary imposes upon us no obligation of admitting them. There is no law, either common law or statutory law, that gives them the right to demand admission. If they are admitgross acom the rights to demand asimission. If they are admit-ted to the wards of the Infirmary, it is as a privilege conceded to them by the Corporation, and the Corporation that concedes the privilege is equally entitled to withhold it." He then pointed out the benefits which the Infirmary reaped from the attendance of the male Medical students. To this were to be attributed the gratuitous services of the most learned members of the Profession, the preparation of their successors, and an income of £1300 per annum from students saccessors, and a literal of the contributors in Edinburgh. For such reasons it was expedient to admit the male Medical student, although the managers were in no way bound to do so. Professor Muirhead next reviewed the history of the application of the ladies for admission to the Linfrancy, and their refusal by the managers. At first, they wished to have the run of all the wards; after this could not be obtained, they expressed their willingness to confine themselves to the wards and classes of those teachers who were prepared to receive them; and, lastly, they were ready to agree that they should attend even those teachers at separate hours. These were the proposals which the managers have had to con-sider. But their application had now taken a new shape. Dr. Charteris now proposed that they should have the exclusive right to the wards to which they wish to be admitted. The proposal to give the ladies clinical instruction at separate hours the managers had no difficulty in setting aside. As guardians of the interests of the patients, whose feelings and whose prospects of cure are not to be disregarded, we could not for a moment think of sanctioning a proceeding which would have the effect of submitting them to a twice-a-day examination or inspection, with all its excitement and attendant trials. It is bad enough for the patients to submit to such examinations once a day, and it would be infinitely worse to ask them to submit twice. There remained, therefore, the alternative of mixed classes. Against those they had to consider the feelings of the male patients, the objections of the Medical officers, who told them that it was impossible for them in mixed classes, and before that it was impossible for them in mixed casses, and before such an audience, to speak with that freedom and unreserved-ness with which it was desirable they should speak, or to per-form such operations which yet for the patient were absolutely necessary. He then went on to pay the following tribute to the Medical Profession, whose self-denying efforts have been so grossly ignored by the opposite party in this question:-

it never occurred to me, remembering the large-heartedness and philanthropy of a Profession of whom the Alisons, the Symes, and the Simpsons were the representatives of the past, and of whom the Christisons, the Spences, and the Listers are the representatives of the present -(loud applause)-that those objections, as we have been told by some mean spirits who gauge the feelings of others by their own paltry standards—(renewed ap-plause)—were but a cloak to cover a sordid fear lest the incomes of their Medical brethren might be diminished by female Practitioners." Lastly, the managers had to consider the feelings of delicacy of the Medical students, who, as he had said, contributed so largely to the funds of the institution. He thought they should consider the possible future of this movement. "We he said, "been told, no doubt, of Paris, Zurich, and Vienna as places where the experiment has been made without -though some deny that; but we know also of a detriment_ country where the experiment has been made on a much larger scale, and tried for a much longer time-I mean the United States of America—('hear, hear')—where a Medical school, beginning with large promise, has at last become so degraded that any woman who respects herself and position shrinks from the contamination. (Loud cheers.) I say shrinks from the contamination-(cheers)-and renounces, or prefers to renounce, the benefit of years of study with those women rather than don the academic robe of one of its graduates." (A Voice : "Send them there."

Miss Blake: "Give me the name of that college." Professor Muirhead: "I speak on the authority of Miss

(Uproar.) Blake." Miss Blake : "Name the college." (Cries of "Name, name,

"Go on," and uproar.)

Professor Muirhead: "I speak on the authority of Miss Blake, who told me that she had studied Medicine for two years in that country; and, in answer to my question why she did not pursue her studies and graduate there, instead of coming here, she told me the character of the fermale students in America had so deteriorated that she and a necessary in a necessary as a sudent there." Finally they had the formers to become a student there." Finally they had the first the student of the st caprice of the individual. It was even a graver objection that what the ladies desire to have—qualifying instruction—could not possibly be had in the wards of those three individuals, for the reason that one of them is a University Professor, pro-hibited by the University authorities from receiving mixed classes, and the wards of the other two gentlemen do not contain those eighty beds which it was requisite the ladies should have. The effect of the motion of Professor Charteris, and of the suggestions made in a circular put into the hands of the contributors that day, was practically to exclude from a fourth part of the Hospital 300 or 400 Medical students who were attending at that moment, and whose fees had been taken on the understanding that they were to have admission to every ward in the house. "It was not just," he said, "that for seven ladies, the interests of 300 or 400 students should be sacrificed." He concluded by saying that in so large a question, with such multifarious and complex interests, the wise thing to do would be to leave the matter to the deliberate

consideration of the managers for decision. Dr. Gillespie, President of the Royal College of Surgeons, in seconding the amendment, confirmed most of the statements made by Professor Muirhead. He further asked, granted the ladies were allowed to enter certain wards, how they were to enter the operating theatre? They must either go with the students, or the patients will require to have the same operation performed upon them twice. Similar objections held true with performed upon them twice. Similar objections held true with regard to the pathological theatro. Dr. Gillespin smintained that if there were any real demand for female Doctors, more than seven female students would now be preparing themselves. The small number was the insurmountable difficulty. If a body of, say, 100 came forward, separate teaching might be

provided for them.

Mr. David Maclaren proposed an intermediate amendment "That, in the opinion of the Court of Contributors, while it is inexpedient that there should be mixed Medical classes in the Royal Infirmary, it is highly desirable that the managers should take into their most favourable consideration the desirshould take mio their most ravourable consucration and admission ability of making immediate arrangements for the admission of registered lady-students of Medicine to a qualifying course of Medicine in that institution, and that they should report the result of their inquiries, and the reasons for it, to the con-

tributors." This he supported chiefly by an extract from a letter of the Rev. Dr. Guthrie, who, amongst other things, says with regard to mixed classes, that he had felt the female pulse of society in all its grades, and found it to beat thus:—
"They abhor the idea of mixed classes, and are not in love with that of female Medical students; but, at the same time, they think that arrangements should be made to allow women to become Doctors who wish, and are found qualified to be so. The course proposed by Mr. McLaren met with little favour, and was the signal for an increased uproar in the tavour, and was the signal for an increased uproar in the palieries, which continued to interrupt the further progress of the meeting, at which several other speakers made desultory remarks. Miss Jex Blake gave an absolute and unqualified denial to

the statement made by Professor Muirhead, saying that she had never made the statement that he asserted, and never could

have made it.

Professor Muirhead said: "I am sure that there is not one individual in this meeting but will give me credit for having stated correctly what, according to my recollection, took place two years ago between Miss Blake and myself. If I have misconceived, or if my memory has failed me, I beg to apologise, and to assure her that it was purely unintentional."

In order to obtain the quiet necessary for taking the vote, the gallery had to be cleared of its occupants by the police. The vote was then taken with the following result:-For Mr. Maclaren's amendment, 217; for Prof. Muirhead's amendment, 226. Prof. Muirhead's amendment was next put against Dr. Charteris's motion, when it was found that 211 voted for the amendment, and 193 for the motion. The amendment of Prof. Muirhead was thus carried by a majority of 18.

EDINBURGH, January 17.

(From an Occasional Correspondent.)

Curses, both loud and deep, may be said to express the feelings of many citizens of Edinburgh just now as to the Medical education of women. The seven Englishwomen have been the teterrime cause of a series of quarrels, which have at last the teterrime cause of a series of quarres, which have at uset swept in the general public. Yesterday (16th inst.) Queen-street Hall was crowded to settle the question whether these "female Medicals" should be admitted to the Infirmary or not. Many fashionable-looking ladies were present, and not a few dowdies. A numerous body of students occupied a central gallery, from whence they rained volleys of peas, and enlivened the meeting with snatches of songs, jocose exclamations, and uproarious applause or disapprobation, according as the fight raged below. Four of the female Medicals had qualified to take part in the meeting by becoming contributors to the funds of the Infirmary, and were allowed a seat amongst the big-wigs. Miss Jex Blake sat cheek-by-jowl with Professor Bennett, her last and sole friend, it is said, in the Medical Faculty. The meeting was an adjournment of that held a fortnight before, at which this lady damaged her cause so much by abusing the opponents of the movement, showing little reverence for pro-fessors, although a matriculated student. The usual contra-dictory arguments were advanced at the meeting, with the usual results. Some of these were noteworthy, considering the speakers. The reverend Professors of Moral Philosophy (Calderwood) and of Biblical Criticism (Charteris, a Dean of the Chapel Royal, or Court Chaplain) have strongly supported the extreme party all along. The latter, therefore, while ad-vocating a clap-trap proposal for separate teaching, was honest enough to advocate the mixture of men and women. only conceivable excuse for this grave offence against clerical propriety-for such it is certainly held to be-is that the two are utterly ignorant of what is done in the dissecting-room and operating theatre. The plea of ignorance can be available no longer, so that for the future they must take the full responsibility of their conduct. In their hearing, a letter was read from the Rev. Dr. Guthric, to the effect that he had attended lectures on anatomy both here and in Paris, and had walked the Hospitals of La Pitié and La Charité; and, and man wanton too Hospitals of La Pitte and La Charité; and, as a result, he "strongly and utterly recoiled" from the plan of mixed classes. The two Professors in question are recent acquisitions to the University—if acquisitions they may be considered, for of that there has been a doubt, ab initio at least, as to the Professor of Moral Philosophy; so that the idea of as to the Professor of Adrai rhosophy, so that the least of having an opposition chair has been mooted, Dr. Hutchinson Stirling to be the incumbent. One of the law Professors—Mr. Murinead, a member of the bar here, and a good speaker—took up the opposition, and was seconded by Dr. Gillespie, President of the Edinburgh College of Surgeons. It appears that the fees paid last year by students for permission to attend the

Hospital practice amounted to £1306, all of which went to the Hospital funds, while the total annual subscriptions from the public were no more than £2815. Mr. McLaren, M.P. for Edinburgh, whose wife is president or secretary of a Woman's Rights Association here, declared that the whole fees of the Rights Association here, declared that the whole fees of the students and half of the public subscriptions were expended on behalf of the students. Incredible and ambiguous asser-tions are the students of the students of the students by the other side, that Mr. McLaren's "face", was not received with full conviction of its reality. Mr. Muirhead said, on the authority of Miss Jox Blake herealf, that a female Medical school somewhere in the United States, which began with much promise, had at last become so degraded that the woman who respected herself and her position shrunk from the contamina-tion—meaning thereby Miss J. B. The latter (of course) contradicted Mr. Mnirhead; but it would be interesting to know what College she spoke of. Was it that referred to in your able leader on "Sexualism in Edinburgh." the ladies your able leader on "Sexualism in Edinburgh," the ladics of which had their portraits published in an illustrated New York paper as they appeared when dissecting? The fact explains a curious proposition which, it is alleged, Miss Jex Blake made to Dr. Handyside, when he admitted the female Medicals into his dissecting-room—viz., that no other females be admitted without their approval. The upshot of the two meetings has been a refusal of the use of the Infirmary to the seven "female Medicals," at the first meeting, by (on scrutiny)

The battle has extended to the ladies generally. Brisk canvassing has been going on for signatures to opposing memorials. The Rev. Dr. Phin, a member of the University Court, spoke The 28**-D.: This is memore of the Currenty vours spoke of a memorial signed by 1200 ladies of Edinburgh against, and a Miss Nichol eastl she was commissioned to address the meeting for the "Medicals" by 900 ladies of Edinburgh and elementary of the properties of the 150 ladies of Edinburgh and elementary of the 150 ladies of 150 ladies of Edinburgh and elementary of the 150 ladies of 150 la

88 to 75, and by the meeting yesterday of (without scrutiny)

against the Contagious Diseases Act.

911 to 193

against the Contagious Diseases Act.
Amidst all this, thoughtful men seriously ask—How about
the Hospital funds, and the prosperity of the Medical school?
It this "experiment" to be carried on at their expense? It
is carnesly hoped that the incompatible seven will depart to a
more favourable sphere. Certainly, they have made Elliburgh
too hot to hold them, whatever may be their merita or their
dains, but the notiriety is too delightful an excitement to be
dains. easily given up.

GENERAL CORRESPONDENCE.

OUT-PATIENT HOSPITAL REFORM. LETTER FROM SIR WILLIAM FERGUSSON, BART.

[To the Editor of the Medical Times and Gazette.]

SIR,-In the Lancet for October 15 last there is an interesting olin,—in the Linear for October to last there is an interesting letter from Dr. Meadows, referring to the work of the Com-mittee on Ont-patient Hospital Reform. The labour devotes to such work, and the incidental expenses, are greater than many may suppose. Labour can be given gratuitously, and it has been liberally bestowed in this instance, but pecuniary

expenses must be met by funds.

The meeting over which I had the honour to preside when the Committee was appointed was large, and I am sure that it is only needful to make it known through the medium of the is only needful to make it known through the measum of the Medical journals that about thirty pounds are required to liquidate the needful outlay in regard to printing and otherwise, when an immediate response will be the result.

Dr. Meadows informs me that five shillings from everyone

Dr. meanows informs me that he ambiguith what is required, and I venture to hope that he and the other gentlemen of the Committee will be speedily relieved from all pecuniary responsibility.

Donations should be sent to the Treasurer, Dr. Meadows, 27, George-street, Hanover-square. I am, &c., Wm. Fengusson. George-street, Hanover-square.

PROFESSOR BILLROTH: DISEASE OF THE PUBLIC CONSCIENCE IN GERMANY. LETTER FROM DR. F. A. HARTSEN,

[To the Editor of the Medical Times and Gazette.] Sm,—The Medical Times and Gazette of January 14 contains an extract from a letter of Professor Billroth. I should be

glad to make a few remarks on this letter, as it is characteristic

of the spirit actually raging in Germany.

Professor Billroth, after having told us how tender a heart he has, says :- " In face of the destiny of our great race, all tender sensibility for well-loved personalities must retreat to

the background . . . for no man is indispensable," etc.

This is genuine Germanism. We have lately heard strange
things from our studious and musical neighbours. The Prussians -for all Germans are Prussians now-are entirely absorbed by considerations of "race." Science, domestic life, right, morality, religion, everything, for the Germans—there are, of course, some honourable exceptions—must yield to the supre-macy of their race. In no other people does the instinct of race take a shape so intolerant and so narrow-minded. Never have take a snape so intoterant and so narrow-musced. Never laws the heard any Frenchman or an Englishman say that he wast have Belgium and Italy and Spain and Holland. But from Germans assertion of such a kind are to be heard every day. Germans believe that they are made of superior stuff, and regard all other people with contempt. They consider the whole world as their legitimate property; they think themselves masters of the world by divine right. Now, I do not mind Germany governing the world, provided this can be brought about by conviction. But a people pretending that they must have this or that is an evil foregoing.

Professor Billroth cum suis disregard all individual right as soon as there is question of the interest of the race. But we may ask—"Of what use is the race itself if the individuals which compose it are mere slaves of the race ? And if nobody is indispensable, why should we trouble ourselves about a race of people who are individually not indispensable?" To our mind, there are some individual rights which may never be lost sight of in favour of the race, and the race can only prosper under condition that the rights of the individual are absolutely respected.

We are sorry to see Germany intoxicated with a philosophy of perinde ac cadarer! Of course, if French or Russians ven-tured to proclaim such doctrines on behalf of their own race. the Germans would call them very immoral. In face of such things, we are almost tempted to curse the great philosophers who have "delivered" us from "the yoko" of Christian decrines I am. &c.. F. A. Harten.

VACCINIA IN NEGROES.

LETTER FROM DR. R. H. BAKEWELL.

[To the Editor of the Medical Times and Gazette.] Sm,-A paragraph has been going the round of the press, asserting that the vaccine disease requires a longer time for its perfect development in negroes than in white people. This is certainly not the case. I have vaccinated hundreds of negro is certainly not the case. I have vaccinated hunareas or negro-children, and never found any other variations from the normal time than are found in other races. The vaccination ordinances of this colony require attendance for inspection after vaccination on the eighth day.

I am, &c.,
R. H. BAKEWELL, M.D.,
Medical Officer of Health, and Vaccinator-General of the Colony of Trinidad. Trinidad, December 23, 1870.

THE PROPOSED MUSEUM OF SURGICAL INSTRUMENTS AND APPARATUS IN THE ROYAL COLLEGE OF SURGEONS.

WE have received, for publication, the following circular letter :-

> "Royal College of Surgeons of England, "Lincoln's-inn-fields, London, W.C.

"Dear Sir .- It has often been remarked that there is no large collection of Surgicul instruments and apparatus in any museum or institution in Britain, such as might be referred to as indicative of the mechanical appliances of Surgery, Mid-

as minimizer of the mechanical appliances of Surgery, Mid-wifery, and dentitry in past or present times.

"Occasionally individual teachers have made considerable accumulations, but these have generally been scattered again after death. Neither student nor Practitioner has ever had it in his power to refer to any source of information excepting

in mis power to reer to any source or information excepting pictures in ancient or modern books, and these do not produce the effect on the eye or mind that would result from an examination of the palable objects.

"Knowledge of the past in Surgery is of essential value to the present and future, and such a collection, in association

with our ample bibliography, would go far to facilitate the efforts of those who desire to enlarge the practical details of our Profession.

"It has long been my anxious desire to see such a collection, but the task of its formation has appeared to me beyond the pecuniary resources, either of individuals or even first-class aching establishments.

"I have seen many small collections rise and disappear in my time. There has been no interest on the part of successors

my time. Anere has oeen no interest on the part of successors to keep them together, or even to present them where they might be respected and carefully preserved.

With these impressions, I have ventured, in my official capacity, to bring the subject before the Council of the Royal College of Surgeons of England, and I have the satisfaction of announcing that the Council is prepared to sanction any reasonable expense to bring about the realisation of such a collection.

"There is no institution in this country where such a scheme could be so readily or thoroughly carried out; none where such a collection would be in a national sense, so usefully placed; and its association with the Hunterian Museum would be a graceful compliment to the memory of the founder of British

"As President of the College and a fellow-labourer, I venture to appeal to you on behalf of this scheme, and to request that you will kindly present such instruments, devices, and appliances as you may be able to spare, or acquire from others who incline to cherish this intended national collection.

"Any thing in the above category will be most thankfully received at head-quarters in Lincoln's-inn-fields, and nothing will be more acceptable than such mechanical memorials as will associate the names of bygone and present Fellows and Members of this College with the history of British Surgery.

"I am, &c. William Fragueson, President."

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

TUESDAY, JANUARY 10, 1871.

DR. BURBOWS, F.R.S., President, in the chair.

A PAPER, by Dr. C. THEODORE WILLIAMS, was read

ON THE DURATION OF PRITHISIS PULMONALIS, AND ON CERTAIN CONDITIONS WHICH INFLUENCE IT.

The author commences by stating that he uses the term "phthisis" in a broad sense, to signify consuming pulmonary disease, attended by a well-known group of symptoms; and includes under it, besides tuberelo, all states of the lung which tend to excavation and caseation. The object of the present paper is to give some account of 1000 cases of phthisis selected from the private practice of Dr. Williams and the author, and to deduce the amount of influence which the conditions of age, sex, family, predisposition, and origin exercised on the duration of the malady. The patients belonged chiefly to the upper and middle classes. The cases have been taken from the records of those who first consulted Dr. Williams between the records of those who first consulted Dr. Williams between 1812 and 1804, a period of twenty-two years; the ground of 1812 and 1804, a period of twenty-two years; the ground of cherration. Sex: The author, after explaining how the cases observation. Sex: The author, after explaining how the cases observation, and the state of the 1800 were males and 375 females. Age: Taking the sexes collectively, 41 per cent. were attacked between 20 and 30, 25 per cent. between 30 and 40, 194 per cent. under 20, and 134 above 40. Considerable difference was found to exist between the two sexes as to the time of attack. Between 20 and 30, the most common period of attack for both sexes, about 7 per cent. more females were attacked than males; and, again, between 10 and 20, 11½ per cent. more. On the other hand, after 30, the reverse was the case. Between 30 and 40, the maics exceeded the females by 11½ per cent.; and above 40, by 6 per cent. The average age when attacked was—for themales, 29½ years; for the females, 26 years. Family predisposition: This term is substituted for "hereditary predisposition," in order to include brothers and sisters and predisposition," in order to include brothers and sisters and first cousins in addition to those of the preceding generanrst cousins in adultion to those of the preceding genera-tion; the principle being to include as instances of disease in a family all near relations derivable from a common stock. Family predisposition was traced in 48 per cent. of the patients; in 43 per cent. of the males, and 67 per cent.

of the females. In the particulars which are given, it is noted that nearly half of the cases had only brothers and sisters affected. Origin and first symptoms: In 315 cases, phthisis originated in, or followed closely after, the following phthias originated in, or ronowed closely alter, the following diseases—viz., pleurisy and pleuro-pneumonia (143), bronchitis (118), asthma, scrofulous abscesses, fistula, whooping-cough, croup, scarlatina, measles, continued fevers, peritonitis, malformations of the chest, and injuries: 261 per cent. of the whole number of cases were traced to inflammatory attacks (pleurisy, pleuro-pneumonia, and bronchitis); and of these patients, 14.2 per cent. were free from any suspicion of family predis-position. The origin of phthisis from inflammatory attacks position. The origin of phranses from maximumous automore is then dwelt on, and the symptoms indicating the conversion of pleuro-pneumonia and of bronchitis into phthisis sketched, and the more general recognition by Medical mon of their half when classes in the converse and lower classes in and the more general recognition by medical men of their strongly urged. Hemophysis awa present in 67 pc. cent. of the patients. State of lungs: In describing the condition of the lungs, Dr. Williams explains why he adopts the classi-fication of stages, and what extent of disease each stage is intended to include. In more of the cases is the oridence of physical signs alone accepted; in all it is amply confirmed by clinical symptoms. Two-thirds of the patients were in the first stage at first visit, 18 per cent. in the second, and 14½ per cent. in the third; fourteen cases presenting the signs of other diseases, on which those of consumption shortly supervened. One hundred and ninety-eight patients are ascertained to have died; the mortality of those who came in the third stage being about double that of those who came in the first. The average about double that of those who came in the first. The average duration of life among the 198 who died was seven years and eight months and there-quarters; 21 of whom lived from the contract of the contract cusses the views of Louis, Bayle, Laennec, Andral, Fuller, Pollock, and other authorities as to the duration of phthisis, ronces, and other authorities as to the curation of primities, and attributes the long duration of the present cases to—(1) the early detection of the disease; (2) the perseverance with which the patients carried out the various healing measures recommended to them, whether medicinal, hygienic, or climatic. The influences of age and sex on duration are next considered; and on these points the author's statistics show that-(1) the and on these points the author's statuted show that—(1) the later the time of attack, the longer was the duration, this later the time of attack, the longer was the duration, this (2) that females are, on the average, attacked four years earlier than males; and (3) that among them the duration of the dis-case is one year and a half shorter, and the average age reached is five years and a half less than agong males. The conclusions as to the effect of family predisposition on dura-tion are (2) that it does not destroy that the discovering that the discovering the discovering the discovering the control of the discovering the discovering the discovering the state of the discovering the state of the discovering the discoverin disease; (2) that it precipitates the onset of the disease, thus shortening the duration of life; (3) that it affects females more than males. The influence of the inflammatory origin on the duration of phthisis is next considered, and the author concludes that cases arising from pleurisy or pleuro-pneumonia enjoy a longer duration than the average, such extension

amounting to at least a year and a half or two years.

Dr. Powell thought it was well to have chosen the widest
meaning for the word phthisis, as it would have been difficult to separate the cases into groups. Nevertheless, it would have been well to separate a certain number; thus, it would be well to know the proportion of pneumonic phthisis. He thought re-coveries were often of this class. The knowledge that people might live so long with cheesy matter in the lungs, and with no accession of miliary tubercle, was valuable. It contradicted the views of Waldenburg and others, and showed there must be something more than a caseous mass—specificity, heredity, or something to induce miliary disease. Family predisposition was traced in nearly one-half of the cases recorded, but in many instances those affected were brothers or sisters, which would rather show common exposure or influence.

Dr. Marcer thought it difficult to say when bronchitis passed into phthisis; the physical signs were much alike, especially in capillary bronchitis. The numbers of those who got well were remarkable; perhaps it was due to the elimination of acute cases. He thought if their digestion was kept up, patients generally did well

Dr. C. J. B. WILLIAMS said : As almost all the cases which have been the subjects of analysis in this paper occurred in my

practice, and were observed and noted by myself, I may be practice, and were observed and noted by injects, a large expected to give any required explanation of the facts for which I am answerable. But, even before the Society, I must express my obligation to my son for the immense trouble which he has taken in arranging and analysing the particulars which no has taken in arranging and analysing the particulars of the cases, and obtaining the exact results of numerical calculation. As they existed in my note-books, they formed an enormous mass—almost overwhelming by its quantity. All this experience had, indeed, led me to general inferences, which are correct; but through the tabulations and calculations which are correct; but inrough the tabulations and calculations which my son has made, I have gained ideas more precise, and of greater extent, than those which I had before from my own impressions. For example, with regard to the duration of life in phthisis, I knew that the average of my cases far exceeded in prissing, I knew time the average of my cases far exceeded the term of two years, assigned as the usual average by Laennee and Louis; and, on general impression, I had fixed it at five years. But, by actual counting, it is found to reach to nearly eight years in the 198 cases that have ended in death. nearly eight years in the 198 cases that have ended in usual, and to above eight years in the 802 till living, and with prospect of further increase. The influence of age and sox on the duration of life is also in conformity with previous impressions—the disease being more rapid in the young and in females, and allower in those older and in males. The effects of family tendency came out by calculation somewhat differently from what was expected. It accelerates the onset of the attack, but does not shorten its duration; it seems, therefore, to render the body more prone to the disease, but not to render the disease more intense. The term "family" predisposition has been preferred to hereditary, in order to include the very common case of several brothers or sisters in succession being affected, even where the disease has not occurred in either arent or progenitor. Dr. Powell has suggested (as did also parent or progenitor. Dr. Towell has suggested (as did also the author, in the paper) that this might arise from members of the same family being exposed to similar external causes; but I have known several instances in which, after one or two of a family have died, the others have been purposely removed from home, and all circumstances changed, and yet the disease has shown itself, proving that the cause is constitutional and intrinsic. Some similar influence is required, also, to make acute inflammation terminate originated in inflammation; and this for continuous con-originated in inflammation; and this for continuous con-with my general experience. It has now become the fashion to recognise inflammation as a common cause of consumption. to recognise inflammation as a common cause of consumption, and this, forsooth, because this notion has been strongly advocated by some German Physicians; but I do not see why we are to be led by the Germans in this matter. For the last forty years I have consistently argued for the inflammatory origin of many forms of phthisis. I first derived this notion from my eminent and revered teacher, Professor Alison, of From my enment and revered council, recovery assess which be published in corroboration of his views were my patients, under his supervision at the New Town Dispensary. But this er his supervision at the New Town Dispensary. unor in supervision at the New Yown Dispensary. But this was, also, the common opinion before the time of Leaenne, opposition to Leaenne. But inflammation alone does not suffice to produce phthisical disease of the lung. Acute inflammation may attack the lung in any intensity, and yet pass away without leaving any trace or tendency to con-It is where it is rendered persistent or chronic by sumption. repeated attacks or neglect, or where there is a state of constitution called scrofulous, or deteriorated by unhealthy in-fluences which degrade nutrition, that the products of inflammation tend to cascation and excavation, and end in consump-What this consumptive or tuberculous constitution there is not time, nor is this the occasion, to discuss; and I would only say that I believe it to be intimately connected with the lymphatic system and the abundant production of leucocytes or pale corpuscles - those wonderful agents and representatives of the plastic process. Dr. Marcet remarked that it would be difficult to distinguish when bronchitis passes into phthisis; but I have found distinctive signs in the supervention of patches of dulness on percussion, together with tubular sounds and coarser crepitus, generally near the summit or root of the lung and there are, also, persistently increased temperature and emaciation. The forms of bronchitis most apt to pass into emacation. The forms or pronchins moss are to pass morphthisis are those attended with plastic or purulent expectoration, indicating a deep-scated inflammation. I must not omit to notice the ground of selection of these cases—that they had been under my observation for at least one year, and that, open under my observation for at least one year, and that, although such selection obviously supplies more reliable and satisfactory results with regard to the history of the disease and its treatment, it excludes the more acuto cases which terminate fatally within that period. The proportion of such

cases is, however, very small, not amounting to 5 per cent. The selected cases, therefore, represent chronic phthisis, and those of the neute disease which have been arrested and rendered chronic by treatment. In conclusion, I would express my conviction, derived from a very large experience, that much may be done to save and prolong life in consumptive disease, analy by subduing and warting off inflammation and irritaments, medicinal and hygienic; but, to be successful, this treatment must be unremaitingly persevered in, not for well or muchas only, but for years, and sometimes even for the whole lifetime.

whole IPteline.

Dr. Andrew Clark referred to the gratifying speciacle of father and son at work on the same problems. Their work was a real and valuable contribution to the history of phthisis, but only of chronic phthisical disease. Even then there was one effected—there was no reference to the habits of the patient. From a scientific point of view, there were different kinds of phthisis, but this division had not been recognised or followed. He thought phthisis arising from pleuritic disease was prolonged; notes if it areas from inflammatory deposits, esperiological to note if it areas from inflammatory deposits, esperionged; notes if it areas from inflammatory deposits, esperionged.

cially if pneumonic.

Dr. Throsons WILLIAMS, in reply, thanked the Fellows of the Society for the kind reception they had given to his paper and the accompanying tables, which, from their statistical nature, he was afraid would have proved wearismes. He are not as the second of the

OBITUARY.

SIR JOHN FIFE, M.A., F.R.C.S.,
DEED on Monday norming last, of apoplex, Y. He was a Surgeon
of good abilities, and extensive practice in Newcastle and the
neighbourhood. He was knighted on July 1, 1810, for the
neighbourhood. He was knighted on July 1, 1810, for the
neighbourhood. He was knighted on July 1, 1810, for the
neighbourhood in the preservation of order, 'as
a mark of approbation of the manner in which he had sustained
Sir John was a decided Liberal in polities, and took part in most
national and local questions. In the struggle for the Reform
Bill in 1831, he proposed, and assisted in forming, the Northern
Political Union; following the example of the Birmingham
Society, it formally amounced its intention to resist the payment of taxes until the Reform Bill had passed. Sir John
contributed little to the literature of the Profession. He
College of Medicine, in connexion with Durham University.
He was Consulting-Surgeon to the Eye Infirmary, and to the

General Infirmary.

The Necrostic Journal says—"The worthy gentlemen had for many months past been afflicted with a most troublesome disease, which constantly meaned his life. In the spring of the same properties of the spring of the spring

and he life was long in the greatest jeeparly. Under the care and attention of his family and friends, and aided by an excellent constution, the gallant kinght railled, and again became so far himself as to be able to more about and enjoy constanting the good health. comparatively good health. A few weeks ago he was in New-castle, and visited the Art Gallery, News-room, and other places where his presence was wont to be so familiar. Till within a week past he continued well and strong; but on Sunday he had an attack of paralysis, and sank into a state of coma, from which he was relieved on Monday morning, when he sank peacefully to rest at his residence in Reedsmonth, in the midst of his family, in the 76th year of his age.

THOMAS MAYO, M.D., F.R.S.,

At the advanced age of 81, died last week at Corsham. He was the son of Dr. John Mayo, of Tunbridge Wells, and descended from an ancient Wiltshire family, of Irish extraction, of which the Mayords—one of whom discovered the use of the air in breathing—are branches. Mr. Herbert Mayo, the physiologist, was his brother. He had retired from practice for many years. He was for some time Physician to the Marylobone Infirmary, and had occupied the post of President Maryietone Inntranty, and nad occupied the post of resourch of the Royal College of Physicians. He was not so generally known amongst the members of the Profession as might have been expected from the high position he held. Dr. Mayo was, strictly speaking, one of the old "University" Physicians. He prided himself on his learning, and not without cause. As a Practitioner, he was somewhat undecided, and has not associated his name with any great improve-ments in treatment, but his "Clinical Facts" are suggestive. It is true he contributed several monographs on psychological subjects, including "Elements of the Pathology of the Mind," "Clinical Facts and Reflections," "Outlines of Medical Proof "Clinical Facts and Reflections," "Outlines of Medical Proof Revised," and "On Medical Evidence and Testimony in Cases of Lunacy, with Essays on Soundness of Mind." These works, with the exception of the "Facts," are more metaphysical and philosophical than practical; more speculative, perhaps, than either. They are written in a somewhat discursive style, laboured occasionally, and not always very clear. But they are worthy of study, and, though not very popular, have had their admirers, and these of a high order of critics.

Dr. Mayo was of a peculiarly retiring disposition, and was affected with a kind of nervous agitation, particularly when speaking to numbers, that made it painful to hear him. He seemed as if he could not express himself without shutting his eyes, and making severe efforts to concentrate his thoughts so as to express himself clearly. At one time he spoke not unfrequently at the Medico-Chirurgical Society, but, as we have said, he was not happy as a speaker. He was the only speaker there, on a memorable occasion, who recognised the true

character of meameric phenomena.

In person, he was below the middle stature, rather spare in figure, and walked somewhat hastily, with an occasional nervous jerk of his head. His features were somewhat large, expressive Even when of some power, but too heavy and melancholic. speaking, they did not rise to a really animated appearance. We never saw him smile. He had not a large practice, and did not seem to court it. He was sometimes called as a witness in cases of lunacy, but his evidence occasionally must have puzzled the lawyers. He was, however, an amiable, upright, and benevolent man, everywhere esteemed, the most by those who knew him best

WILLIAM T. JONES, L.R.C.P. Ed., L.S.A.
It is with deep regret we announce the early death of Dr.
W. T. Jones, of Kentish-town, which took place at his residence on the evening of the 5th. The deceased gentleman had been suffering from ill-health for some time past, and this had greatly prevented him from attending to his Professional duties; and the nature of his malady—jaundice—caused an irritability that was only understood by his immediate attendants, or by those intimate friends who witnessed the acute pain he at times suffered from. He died in the prime of life, being in his 43rd year. Dr. Jones possessed great Professional talent, and his death will be much felt in the immediate neighbourhood of Kentish Town, where his kind treatment had made bourhood of Kentash Town, where his kind freatment had made him appreciated by a large circle of the better classes, as well as endeared him to a host of poorer patients. The Doctor was a gentleman of varied talents, and in early life took great interest in amateur theatricals, being one of that party who gave representations at Miss Kelly's little theater under the little of "The Histrionics," many members of which club have since distinguished themselves in theatricals, literature, or the arts. He was Physician to the Dramatic, Equestrian, and Musical Sick Fund Association. He was author of "Dramatic

Poetry: its History and Actors Ethnically Considered," and other works. Dr. Jones belonged to the Masonic craft, and was a member of the Supreme Council of the 32rd Degree, as likewise several other orders. The Inneral, with was of a very private character, took jake on Wednesdish last at Finchley Cemetery, and was attended by his widew and only con (aged 3 years), and a few bold friends.—Smedgy Times.

MEDICAL NEWS.

ROYAL COLLEGE OF SURGEONS OF ENGLAND .- The following gentlemen passed their primary examinations in Anatomy and Physiology at a meeting of the Court of Ex-aminers on the 17th inst., and, when eligible, will be admitted to the Pass Examination :-

the Examination, where any converse and the Examination of University College, Aspinal, Henry M., of the Manchester School. Bateman, Arthur W., of University College.

Birch, Bidsert, of King's College.

Birch, Bidsert, of King's College.

Birch, Bidsert, of the Schefield School.

Billam, Walter, of the Schefield School.

Billam, Walter, of the Schefield School.

Bigliev, Thought, of the London Horpital.

Munro, David, of Kingston, Canada.

Munro, David, of Kingston, Canada.

Murry, William, of the Dublin School.

Newly, Charles II, of St. Thomas's Horpital.

Payne, Heary, of King's College.

Pageon, Heary, of the Berksiel School.

Sparrow, Mr., of the Dublin School.

Sparrow, Mr., of the Dublin School.

Sparrow, St., of the Dublin School.

Sparrow, St., of the Dublin School.

Thompson, Heary, of St. Hartholomew's Horpital.

Thompson, Heary, of St. Hartholomew's Horpital.

Thudiand, France E., of St. Bartholomew's Horpital.

The following candidates passed on the 18th inst., viz. :-

ollowing candidates passed on the 18th inst, ollowing candidates passed on the 18th inst, ollowing candidates passed on the 18th inst, ollowing candidates and the second second

APOTHECARIES' HALL. — The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday, January 12, 1871 :-

Cass, Stafford Thomas, 20, St. George's-road, S.W. Hollinshead, Francis, Selby Oak, near Birmingham

APPOINTMENT.

The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

Towns, C. S., B.A., M.R.C.S., &c.—Lecturer on Dental Anatomy and Phy-siology at the London School of Dental Surgery, Soho-square, vice Mr. 1bbetson, F.R.C.S., resigned.

MILITARY APPOINTMENTS.

Medical Department.—Thomas Abraham Jerningham Cocksedge, from 52nd Foot, to be Staff Assistant-Surgeon, rece John Colahan, M.D., appointed to 52nd Foot.

1st Middlesex Engineer Volunteers .- Assistant-Surgeon Baines, M.D.,

Pan Foot.—Staff Assistant-Surgeon John Colahan, M.D., to be Assistant-Surgeon, vio Thomas Abraham Jerningham Cocksedge, appointed to the Staff. 52nd FOOT.

BIRTHS.

BODLE.—On January 11, at Ealing Dean, the wife of George E. Bodle, Surgeon, of a daughter.

ELIX.—On January 18, at Hertford, Herts, the wife of George Elin, M.D.,

(10D.—At Armagh, on January 18, the wife of A. Napier Kidd, M.D., F.R.C.S., of a son.

- MIDLER.—On January 14, at 463, St. Vincent-street, Glasgow, the wife of Hugh Miller, M.D., F.F.P.S. Glass, of a daughter. -On January 7, at Rockferry, the wife of J. Linton Palmer.
- V.H.C.S., etc., of a son Picano.—On January 11, at 24, Abbey-road, N.W., the wife of P. Kirk-patrick Picard, M.D., of a son.
- Avyain.—On January 12, at 5, Curson-street, Mayfair, the wife of Dr. W. S. Playfair, of a daughter.
- Postrors.—On January 15, at The Lawn, East Moulsey, Surrey, the wife of H. W. Porteous, Inspector-General of Hospitals, Madras Army (re-
- tired, of a son. Saivi.—On January 13, at Cossen's Farm, Cobham, Surrey, the wife of Rowland Smith, M.R.C.S.E., etc., of a daughter.
- Thouseson.—On January 15, at Avenue House, Learnington, the wife of Dr. James Thompson, of a daughter.

MARRIAGES

ABARKAGES.

ABMSTRONG—ELPHINSTONE.—On January 12, at Immanuel Church, Streatham-common, Henry, third son of John Armstrong, M.D. and J.P., of Gravescad, to Janet, eldest daughter of George Elphinstone, Esq., of Oakfield House, Streatham-common, S. W.

Dalaced House, Sacassanian St., St. at the parish church, Kingston, Portsea, John H. Haire, Surgeon R.N. (retired), Gosport, to Isabelia, widow of the late Robert Tennent, Esq., of Well-park, Glasgow.

Hawan—Jayraay—On January 10, at St. Glies's Church, Northampton, Edward Hewer, M. R.C.S., to Sarah E. Jeffery, eldest daughter of John Jeffery, Esq., Solicitor, Northampton.

KiNO—MacTAOOARY.—On January 12, at Aberdeen, Henry Kirwan King, M.B., of Welwyn, Herts, to Sarah Nelly, third daughter of the late Donald MacTaggart, Esq., of North Lodge,

Donaid Macraggart, Eve₁, or North Lodge, Middle-Heild, Donaid H. at St. Mark's, Hamilton-ierrace, Robert Percy Middlemist, M. R.C.S., of 10, Belford-place, Russell-square, to Alice, youngest daughter of the late James Reid, M.D., of Brook-street, Grosvenor-square.

Saves, Grovenor-square.

Oawirs—Sirawarr.—On January 10, at Cavendish Chapel, Ramagate,
Frederick James, second son of James Orwin, M.D., of Notting-hill,
London, to Elizabeth, second daughter of the late Robert Campbell
Stewart, Eag.

ONTIFIX—HYPERCOCK.—On January 17, at Bishops Lavington, the Rev. Alfred Pontifex, M.A., Rector of Yate, Glouesstershire, to Julia Madeline Knight, younged daughter of C. Hitchcock, M.D., of Fiddington, Market Lavington, Wilts. PONTIFEX-HITCHO

Market Lavington, Wilts.

SWISSON—GURATREX.—On January 12, at 8t. Michael's Church, Rushall,

Blaffordshire, by the Rev. F. Greene Littlecot, assisted by the Rev. T. L.

Chavasset, Thomas Spilabury Swinson, M. R. C.S., of Mickelton, Gloocetershire, to Emily Caroline, eldest daughter of James F. Greatrex, of

Walsall. No cards.

VERBARRE—CHANTERLL.—On January 9, at St. Mary's Church, Auguste Charles Verbaere, M.D., of Bruges, Belgium, to J Georgiana, third daughter of the late William D. Chantrell, Esq.

Octograms, tairc augment of the late William D. Chantreu, seq. Williams—Brill.—On January 3, at the parish church, Llansyllin, by the Rev. W. Williams, father of the bridgeroom, assisted by the Rev. G. Cuthbert, Eyton Owen Williams, M.L., of The Hall, Llansyllin, to Mary Sophia, second daughter of W. J. Bull, Solicitor, of Owwstry.

BELCOMBE, LOUISA MENERLI TANIS, fifth, youngest, and last surviving daughter of the late William Belcombe, M.D., of York, at 66, Finchley New-road, Hampstead, the residence of T. Faulconer, Eq., on Jan. 11. CLEVERLY, ALFRED WILLIAM, eldest son of the late Samuel Cleverly, M.D., at Peckham, on January 12, aged 60.

DARRY, JOHN THOMAS, M.R.C.S., L.S.A., at the Royal Infirmary, Man-chester, suddenly, on January 14, in his 20th year.

Firs., Sir John, Kt., F.R.C.S., at Reedsmouth House, Northumberland, on January 15, after a few hours' illness, in his 76th year.

FITZPATRICE, MARY ANNE ULRICA, the beloved wife of John Pitzpatrick, M.D., Surgeon-Major Madras Army (retired), on January 13, aged 44, deeply and deservedly regretted.

GRAYES, the Rev. Richard Daousht, late Rector of Hanford, Stafford-shire, eldest son of the late Robert Graves, M.D., F.R.S., of Merrion-square, Dublin, and Clophan Castle, King's County, at Milan, after a tedious illness, borne with great Christian fortitude and resignation, on Januare 2.

HARMERTON, JOHN H., Esq., formerly of St. George's Hospital, at his residence, Henley-on-Thames, on the morning of January 10, in the 69th year of his age.

LEESE, ROSERT VAUX, son of the late Lewis Leese, M.D., at Central-hill, Upper Norwood, Surrey, on December 25, 1870, aged 59.

Mayo, Thouas, M.D., F.B.S., formerly President of the Royal College of Physicians, at Corsham, on January 13, aged 81.

Paysenian, at Certaian, on January 13, aged 81.

Paysenian, at Certaian, on January 13, aged 81.

Paysenian Payser, third on of the late Henry Parker, M.D., of Overton, the Control of the Late Henry Parker, and January 17, aged 41.

BUTHERSON, AND THE CONTROL OF THE PAYSENIA CONTROL OF THE PAY

SHORTING, SARAH, only daughter of the late H. Shorting, M.D., formerly of Eye, Suffolk, and sister of the late Rev. Charles Shorting, Rector of Stonham Aspal, Suffolk, at 33, Henley-road, Ipswich, on January 6. Syange, Georgina Girolen, daughter of George Whitefield Sparke, Surgeon, at Mansfield, Notts, on January 16, aged one month.

VACANCIES

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession. CHRITENHAM GENERAL HOSPITAL AND DISPERSART.—Surgeon. Applica-tions and testimonials to D. Hartley, Esq., Secretary, on or before January 21.

EAST LONDON HOSPITAL FOR CHILDREN AND DISPERSARY FOR WORKE, HATCLIFF-CROSS, K.—Nurgeon. Applications and testimonials to the Secretary at the Hospital on or before January 23. Election the follow-ing day at 3 o'clock, pur.

Hospital for Diseases of the Chest, Victoria-fark.—Assistent-Physician. Applications and testimomals to the Treasure, Hy. Tucker, Esq., at the Offices, 24, Finsbury-circus, on or before January 26.

ENG., as the Original Rice, 24, Innounverse, on or octors languary 26.

Kent County Original Rice Hospital...—Consulting Surgeon; must be duly qualified. Applications and testimonials to H. Pearson, Esq., Secretary, Maidstone, on or before March 18.

Manascone, on or before March 18.

KENT AND CAPTRABLEW HOWITAL.—Assistant House-Surpeon and Dispenser (one office). Candulates must be legally qualified to practise under the Medical Act of 1888, and be registered. Applications and testimonials to Mr. 7. Southee, Secretary, on or before January 36. Election on the 97th

on the PAIR.

NEWCASTLE DISPENSARY.—Two Visiting Assistant Medical Officers; must be duly qualified and registered. Applications and testimonials to Mr. H. E. Armstrong, at the Dispensary, on or before January 26. The duties will commence on February 24.

ROYAL CORNWALL INFIRMARY.—House-Surgeon, Secretary, and Dispenser. Candidates must be L.S.A. Applications and testimonials to R. Tweedy, Esq., Truro, on or before February 1.

BOYAL SUBBY COUNTY HOSPITAL.—Honorary Medical Officer. Applica-tions and testimonials to the Hon. Sec., the Rev. C. R. Dallas, Farneombe Bectory, Godalming, on or before February 2

Bectory, Godalning, on or before Yebrasay 23.

SIRLALOU TUNG—Medical Office. Candidates must have both Medical and Suquial qualifications and be regastered. Applications and testi-shire, on a before January 26. Election the following divertey, York white, on a before January 26. Election the following with the property of the Proper

January 24.

POOR-LAW MEDICAL SERVICE.

.. The area of each district is stated in acres. The population is computed according to the last census.

RESIGNATIONS

RESIONATIONS.

**Riskop Stortford Union.—The Bishop Stortford District is vacant; area 3241; population 5180; salary £100 per annum.

**These Union.—Mr. C. F. Knight has resigned the Brill District; area 6739; population 1991; salary £17 per annum.

APPOINTMENTS. the Crook District.

the Crook District.

Britscorth Union.—James C. Pritchard, L.R.C.P. Edin., L.M., M.R.C.S.
Eng., L.S.A., to the Second District.

Forest-gate School District.—Charles Glen Bott, M.R.C.S.E., L.S.A., to Egg., L.S.A., to the Second District.

Forest-optic School District.—Charles Glen Bott, M.R.C.S.E., L.S.A., to
the Goliuli Training Ship.

Manchaster Tournship.—Wm. A. Patchett, M.R.C.S. Fag., L.S.A., as
Junior Assistant Medical Officer at the Workhouse Hospital in New Bridge-

rect.

Pembroke Union.—Howard D. Reynolds, L.R.C.P. Edin., M.R.C.S. Eng.,

remerose trains,—Roward D. Reynolds, L.R.C.P. Edin., M.R.C.S. Edg., to the Fourth District.

Stouthridge Union.—John Thomson, L.R.C.P. Edin., I. R.C.S. Edin., to the Workhouse.

Walsfeld Union.—Wm. S. Wade, L.R.C.P. Edin., L.F.P. and S., and Walefield Union.—Wm. S. Wade, L.R.C.P. Edin., L.F.P. and S., and M. Glasg., L.S.A. Lond., to the Chevet, Sandal Magna, and Walton

COLLEGIATE EXAMINATIONS .- At the Primary or Anatomical and Physiological Examination for the diploma of Membership of the Royal College of Surgeons, which was brought to a close on the 18th inst., 78 candidates were examined. It is stated that on the first day 19 out of 40 candidates were rejected, and on the second day 14, making a total of 33 who were referred to their studies for the usual period of three months. The pass examination will commence this day (Friday), and continue until that day week inclusive.

COLLEGIATE PROCEEDINGS.—The report of the proceedings of the last meeting of the Council of the Royal College of Surgeons, just exhibited in the hall, contains but little information not already published in the Medical Times and Gazette. The recommendation from the Court of Examincrs, that the preliminary examinations should be continued, and that the subjects should be the same as last year, was adopted. The President and Vice-Presidents were authorised to expend such a sum as they deemed expedient from the funds of the College, with a view to the effective celebration of the Hunterian Festival on the 14th proximo, when the Oration will be delivered by Sir William Fergusson, Bart.

LAW AND PHYSIC IN MARRIED LIFE. - In a late action for breach of promise of marriage against a member of our Profession, Mr. Huddlestone, in his argument for mitigation of damages, dwelt very strongly on the fact that the defendant was only a Surgeon. The learned counsel depicted the happy state of a lawyer's wife, and compared with it that of the wife of a Surgeon, who, on his return home in the evening, had no on a bangroun, won, on ms return home in the evening, had no pleasing ancedote to tell, but must probably be funigated before he appeared in the drawing-room, and who must be subject to the appeals of that dreadful bell which was always ringing in the night. PROFESSOR HUXLEY. — Professor Huxley has, it is stated, accepted the office of Professor of the Birmingham and Midland Institute, held in 1869 by Mr. Charles Dickens.

LORD GEORGE HAMILTON, M.P. (for Middlesex), will preside at the bicnnial dinner of the Great Northern Hospital, in the spring.

"CHRISTMAS TREE" AT THE GREAT NORTHERN HOSTFIAL.—Over 100 indoor and out-patients were presented with gifts of clothing, tea, sugar, toya, fruit, and needful articles at their usual "tree" treat last Thursday.

THE LATE MR. WM. THURNALL.—At the last quarterly meeting of the Governor of the General Infirmary, Bedford, the following resolution was passed, and ordered to be entered on the minutes, and a copy transmitted to the widow and relatives of the deceased:—"The Governors at this, their quarterly meeting, express their deep regret at the serious loss sustained by the institution, and the town and neighbourhood of Bedford, in the demise of their late seminent Consulting-Surger Mr. Talurall, whose services for many years successively satisfy-Surgeron to the Infirmary were of inestimable value. The Governors deeply sympathise with the widow and relatives on the melanchely event."

OFFICERS AND COUNCIL OF CLINICAL SOCIETY OF LOYDON, EXEMPLY JAVINA IN 1871.—Powieder * William W. Oull, M.D., F.R.S. * Vice-Provident: Thomas King Chambers, M.D.; Thomas Berül Peacock, M.D.; G. Owen Ress, M.D., F.R.S.; * W. Burdon-Sanderson, M.D., F.R.S.; John E. Erichsen, Esc.; Prescott Gardner Hewett, Esq.; Henry Loe, Esq.; * Campbell De Morgan, Esq., F.R.S. * Tressurer : Whyte Barclay, M.D.; * William H. Broadbent, M.D.; * Therderick W. Pary, M.D. * F.R.S.; * * Mirred Mendows, M.D.; * Frederick W. Pary, M.D. * F.R.S.; * * Mirred Mendows, M.D.; * Frederick W. Pary, M.D. * F.R.S.; * * Sentens Wilks, M.D., F.R.S.; * Gascoyen, Esq.; Christopher Heath, Esq.; Berkeley Hill, Esq.; Carsten Holthouse, Esq.; William B. Kesteven, Esq.; Christopher Heath, Esq.; Berkeley Hill, Esq.; Carsten Holthouse, Esq.; William B. Kesteven, Esq.; Thomas Smith, Esq. * Howevery Secretaries* Thomas Buzzard, Thomas Smith, Esq. * Howevery Secretaries* Thomas Buzzard, M.D. * * George Lawson, Esq. (The gentlemen whose names are marked with an asterisk (*) did not hold the same office during the preceding year.)

THE SALLI-FOX IN LONDON.—The following circular, by direction of the managers of the Metropolitan Anylum District, has been addressed to the several Boards of Guardians in the Metropolits, detailing the steps taken for meeting the Metropolits detailing the steps taken for meeting the Metropolits, detailing the steps taken for meeting the steps of the Metropolits and Metropolitics and Metropo

will thus perceive that every exertion is being used, the managers would at the same time very earnestly used the Boards of Guardians of every parals or unious hirtuit abis disease has made its appearance to make some immediate provision for their own cases, pending completion of the arrangements above act forth.

SANITARY CONDITION OF ST. MARY'S, ISLINGTON .-The main feature of the month has been the continued prevalence of scarlet fever, and the alarming increase of smallvalence of scarlet rever, and the alarming increase of small-pox. The latter has attained the full proportions of an epidemic, demanding the adoption of the most energetic measures for its suppression. In the month of November I registered only thirty-six cases. In the five weeks of December, the public practice of the parish alone included 104 cases, and probably among all classes of our population not fewer than 250 cases happened. I hear of it on all sides, in the houses of the well-to-do as well as those of the poor, and it is taxing the strength and resources of the Sanitary Department of the Vestry to the ntmost; for we have to deal with an epidemic of scarlet fever at the same time. It speaks well for the vaccination of the parish, that comparatively very few young children are included in my list of cases; the large majority of patients being persons between 12 and 25 years of age. As I have over and over again pointed ont, we might defy small-pox as an epidemic, if, in addition to the universal defy small-pox as an epidemic, if, in addition to the universal vancination of infants, we could secure the re-vancination of But this vaccination arrangements are not in the hands of the Vestry; the Board of Guardians have full power of desling with this protective measure, and a memorandum has been issued to them by the Privy Council, urging them to put all their powers into exercise, and to make special provisions adapted to the present emergency. The work of my department lies in another direction, and is determined by the sections of the Sanitary Act relating to infectious diseases, Under these sections we visit every house where we learn that small-pox has entered, and give printed directions for the prevention of contagion; we supply disinfectants for use during the Illness, and when the disease is ever, direct and, so far as we can, superintend such disinfections as we have it in our power to order. The great difficulty in dealing with the epidemic at the present time is, that of providing for the proper isolation of the sick. The Hospitals at Highgate and Hampstead are overflowing, so that numerous cases have to be treated at home in the rooms occupied by other members of the same and this the rooms occupied by other immers of the same family, and where every facility exists for the diffusion of the disease. The present want is Hospital accommodation, and this the Vestry, as the nuisance authority is empowered by the 37th section of the Sanitary Act to provide. I beg to by the 37th section of the Sanitary Act to provide. I beg to suggest that they should lose no time in availing themselves of this power. Of course, it will involve some expense for furniture and a small staff; but there are now in the possession of the parish anoccupied buildings, a part of which might be appropriated to the purpose with great advantage to the public. Another difficulty I meet with, lies in the absence of any place way the suppose of the public of the publi sary disinfections are being carried out. I should be glad if a furnished room or two could be placed at our disposal in the same buildings, as a place of temporary refuge under such circumstances.—Dr. Ballard's Report for December,

A STRITTEN RESIGNATION.—There seems to be still greater difficulty in getting manicipal boiles to act in a sanitary direction on the other side of the Atlantic than with ourselves. Booton is a city notoriously in want of sanitary improvements, and, some time since, Dre. Derby, White, and Ingulls were appointed as consulting Physiciana to the City. Believing their appointment was to be a reality, they set to work recomprominent nuisances, and improve the public health. No notice having been taken of this and other similar communications, they have just resigned their posts; for, no attempt at amending the abuses they pointed out having been made, "a continuance in office," they say, "under such circumstances continuance in office," they say, "under such circumstances they belong. Regretting their inability to take part in a much-needer afordm, they beg leave to retire from any participation in, or responsibility for, a state of affairs which they have no power to amend."—Baston Jaurnal, December 1

ADULTERATION OF LARD.—In a late trial at Liverpool, in which the plaintiff songht to recover the price of some lard which the defendant had returned as unfit for food, evidence for the defence was given by an analytical chemist that some of

the bladders he had analysed contained a mixture of lard, mutton fat, rape oil, and water, the latter in the proportion of 19 per cent. The Court ordered the plaintiff to take back the fard without payment .- Food Journal

NOTES, QUERIES, AND REPLIES.

Me that questioneth much shall learn much .- Bacon .

Dr. Imray, Dominica, West Indies,-Your request has been attended to Dr. Edgerton, Middletown, U.S.A .- Your letter, with enclosure, has arrived

R. M. will perceive by reference to our columns of to-day that we have not forgotten the subject to which he alludes.

Lex .- The contract must be proved, or there is no remedy at law,

H. W.-It would be impossible under the circumstances to give a testimonial which would be of the least service.

Tibi.-Either way is correct Prescriber.-Though not in the Pharmacoposia, it is extensively used. Nervous.-There is no danger. Consult some respectable Surgeon, not an

Beta is liable to be fined.

A Young Chemist.—Such prescriptions are disgraceful to the writers. Charing-cross.-Mr. Bellamy was elected Assistant-Surgeon to the Hospital some months ago. The present vacancies are occasioned by the mlargement of the Hospital, and the consequent additions to the staff thereby percentated

THE ACCOUNTS OF THE WORKHOUSE INFIRMARIES' ASSOCIATION.

TO THE EDITOR OF THE MEDICAL TIMES AND CAZETTE.

Wimpole-street, January 16.

A Querist. - Woodhull and Claffin's Workly is the name of a real newspaper published at New York, and devoted to the enforcement of "wor rights." The chief "right" claimed is that of "free love," which, in this country, is commonly called fornication. A glorious future for humanity is preached: when women shall rule, religion be abalished. and no man know his own father. To bring this about, mankind, we are taught, must occupy themselves more scriously than they have hitherto done with the propagation of their species,

"The time must come when a full knowledge of all that pertains to exception, fortal life, birth and growth to full manhood and womanhood, we be an important part of every child's education."—December 31, 1870.

To show that we do not misrepresent the character of this shameless print, nor exaggerate the infamous attempts of the "woman's rights movement," let'us give the following excerpt from the number for Jan. 7. on love, marriage, and the nurture of children :-

on love, marriage, and the nurture of children:—

"60, also, of the feelings and affections involved in the meaning of the word 'love,' which is supposed to constitute the basis of the marrial relations (so called). They likewise are involuntary. To attempt to repeate the contractions of the marrial relations (so called). They likewise are involuntary. To attempt to repeate of the exact is simply to expender promote of contraction of this union of the exact is simply to expender promote contractions, internal discord.

Some perfect freedom in respect to extention and religious belief, or the value of the consequence of according perfect freedom in respect to extention and religious belief, or the value of the contraction of the consequence of according to the contraction of the con

We have found one joke worth quoting in its disgusting pages

"It has been said that a large life insurance policy don't exactly make a corpse smile at his widow, but helps amazingly to get another fellow to do it for him."

The phenomenon in our eyes is this: Here are women who have evidently received an education-not deep, it is true, nor exact, but smart and superficial-and we suppose they have a sort of "society" of similar persons to mix with. How such persons can ever, in a civilised country, have gone down to such depths of degradation and shamelessness, is a puzzle to us Britishers

A Rejected Candidate. - There will be another examination in June next: the subjects the same as on the last occasion.

A Militia Surgeon. - The celebrated Sydenham left Magdalen Hall, Oxford, in early life to serve in the Parliamentary Army.

Thomas Guy .- It was said of the celebrated Dr. Mead, by the old lexicographer, Johnson, that "He basked in the broad sunshine of life more than almost any other man."

Testimonial.-We should have been most glad to mention the presentation to Dr. -, whom we know thoroughly to deserve it. But what are we to say when a parody on "God Save the Quee n" such as the following is permitted to be sung! It casts an air of burlesque over the whole proceedings :-

44 Rise, sing our Doctor's praise : Christian are all his ways; Sound we his fame. The sick find him a friend : Old age be will defend. And infancy attend :

" Ready at duty's call. Kindly to each and all Attention gives. Feeling in word and deed,

Tending our every need, Life's joys for him we plead, Long may be live !"

MITEBRAND (GERNAN) OR PUSTULES MALIONES (FRENCH).

MITTERARY (GERMAS) OF THE REDICAL THEM AND GAEFTH.

SIR,—In your number of JAMMARY 7, Dr. ZHWAT Ballard, Medical Sir,—In your number of JAMMARY 7, Dr. ZHWAT Ballard, Medical Children's Committee of James 1, 1987, and the sir of the

L.R.C.P. Lond,-The late Dr. Thomas Maye, formerly President of your College, whose death was announced in the Times of Monday last, was a brother of Herbert Mayo, formerly of King's College, and Professor of Anatomy in the Royal College of Surgeons in 1828

Dr. D. A. A., Forcey, Cornwall .- Mr. William Wadd was a member of the Council of the College in 1824. He was a most amusing author. His death was caused by jumping out of a gig, the horse of which had taken fright. He was an Irishman—"Quidquid agunt Medici, nostri est farrago libelli."

Hunterian Scholar .- The term has been coined by the gentleman. The correct title was "Student in Human and Comparative Anatomy in the Museum of the Royal College of Surgeons." The first gentleman who obtained the appointment was the late Professor William Crozier, of H.M. Indian Army; the last was the late Mr. T. H. Stewart. The office is now abolished

MeHLOMOW

COMMUNICATIONS have been received from

Dr. Meadows; Mr. Rowland Smith; Mr. Jers; Mr. J. F. Greatrex; Dr. Austie; Mr. S. K. Welch; Dr. Hugh Miller; Dr. G. Elder; Dr. WILLIAMS; Dr. R. H. BARRWELL; Mr. H. B. CONDY; Dr. GRAY; Dr. J. WHITMORE; Dr. MOXOE; Dr. OGLE; Dr. CHARLES J. B. WILLIAMS; Mr. J. CHATTO; Dr. PLAYFAIR; Dr. F. A. HARTSEN; Mr. T. M. STORE; Dr. J. BURDON-SANDERSON; Dr. FELCE; Dr. BARNES; Dr. THOROWGOOD; Dr. G. LAWSON; Prof. LAYCOCK; Sir W. FERGUSSON.

BOOKS RECEIVED-

Christopher Heath, F.R.C.S., on the Treatment of Intra-Thoracie Aneurism by the Distal Ligature—Dr. Ballard on a Localised Outbreak of Typhoid Fever in Islington during the Months of July and August, 1870, traced to the Use of Impure Milk-St. George Mivart, F.R.S., on the Genesis of Species-Colonial Questions Pressing for Immediate Solution, by R. A. Macfie, M.P.-Brodhurst on the Deformities of the Human Body--Practical Lithotomy and Lithotrity, by Sir Henry Thompson, second edition
—What is Malaria! By Dr. C. P. Oldham—Report of the Carlisle Dismsary, 1869-The Alleged Increase of Lunacy: a Farther Note. By Dr. C. Lockhart Robertson-Fourth Annual Report of the Driffield Cottage Hospital-Report on the General Aspects of Epidemic Cholera in the Bengal Presidency in 1869.

NEWSPAPERS RECEIVED.

Nature—Manchester Daily Examiner and Times—Brixton Herald—Phar-maceutical Journal—The Harrow Gazette—Chemist and Druggist—The Westminster and Pimlico Chronicle-Medical Press and Circular-The Philadelphia Medical Times.

APPOINTMENTS FOR THE WEEK.

January 21. Saturday (this day).

Operations at St. Bartholomew's, 1½ p.m.; St. Thomas's, 9½ a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 9½ a.m.; Royal London Ophthalmic, 11 a.m.

Association of Mispita Oriense of Halver, 15 pm. Dr. Robert Association of Mispita Oriense of Halver, 15 pm. Dr. Robert of Smileps to be Attri-buted to the Fan recently introduced of Limiting the Number of Public Vaccinators "Dr. T. Spener Cobbed," on Entoron in relation to the Public Health, especially as regards Sewage Irrigation" (illustrated by Drawings and Specimens).

BOYAL LESTITUTION, Sp.m. Rev. W. H. Channing, "Laws of Life Revealed in History."

23. Monday.

Operations at the Metropolitan Free Hospital, 2 p.m.; 8t. Mark's Hospital for Diseases of the Rectum, 2 p.m.; 8t. Peter's Hospital for Stone, 24 p.m.; Royal London Ophthamic, 11 a.m.

MEDICAL SOCIETY OF LODGES, Sp.m. Mr. F. J. Gant, F. R.C.S.—Lett-somman Lectures: "Excisional Surgery of the Joints; The Conditions appropriate for Excision; The Operations; After-Treatment and Results" (Illustrated by a series of original specimens, drawings, and appraariate). Lecture II. The Hip and Ankley

24. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopsedie, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Ophthalmic, 11 a.m.

Communication of Early Spin. Rev. Dr. Steere, "On the Languages and Tribes of East Africa." Dr. Eyschmacher, "On African Weapons and Implements." Communicated by Sir J. Lubbock, Bart., M.P., "A Zulu Law Case."

ROTAL INSTITUTION, 8 p.m. Dr. Foster, "Nutrition of Animals." ROYAL INSTITCTION, S. D.M. D.T. ZORET, "NUMETHOR OF ARIMINAL." BOYAL MEDICAL AND CHIEUMOICAL SOCIETY, 8§ p.m. Mr. French, "On the Cause of the Post-mortem Muscular Contractions in Cholera," Dr. Robert Lee, "Cases of Hysteria, with Boseving," Dr. Meryon, "Sug-gestions in support of a System of Rational Therapeutics."

25. Wednesday.

Operations at University Processing Processi

26. Thursday.

Operations at St. George's 1, p.m.; Central London Ophthalmic, 1 p.m.; Royal Orthopedic, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m.

BOYAL INSTITUTION, 3 p.m. Dr. Odling, "Davy's Discoveries."

27. Friday.

Operations at Workmarker Ophthalment, pt. m.; Central London Ophthalment, pt. m.; Royal London Ophthalment, pt. m. in Royal London Ophthalment, pt. m. in Royal London Ophthalment, pt. m. m. Custeat. Society, §6, pm. Dr. Silver, "On the Use of Verstrum Uride in Behemmäten," Mr. Tewaru, "On Four Case of Operation for unwith Urinary Analyses," and "On Functure in Anasorae." Dr. Rroad-best, "On Paralysis of the 80th Falset resembling Dphtheritie Paralysis." ROYAL INSTITUTION, 9 p.m. Dr. Odling, "On Becent Improvements in the Production of Chlorine."

VITAL STATISTICS OF LONDON.

Week ending Saturday, January 14, 1870. BIRTHS.

Births of Boys, 1904; Girls, 1153; Total, 2357. Average of 10 corresponding weeks, 1860-69, 2078-4. DEATHS.

		Males.	Females.	Total.
Deaths during the week. Average of the ten years 1860-69 Average corrected to increased population Deaths of people above 90	:	997 843·0	959 859-4	1896 1702.4 1872

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1861.	Small-por.	Monadon.	Searlet Fevur.	Diphtheria.	Whooping-	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhos.
West		458125	94	8	13	1	7		5	1	3
North		618210	39	6	23	1	6	5	7	1	1
Central	***	383321	10	1 1	6	2	5	1	***	. 2	3
East	***	571156	46	9	10	2	11	1 1	***	4	- 3
Bouth	***	773175	16	8	25	4	9	8	5	3	8
Total	***	2903090	135	27	77	9	38	10	17	11	17
	_			-	-020	7.0	0.77				

				MI.				
From Observations	at	the	Gree	nicie	6	bsere	ato	ry.
ean height of barometer								29 656 in.
								33.0
ighest point of thermometer					٠			44.8
west point of thermometer								18-3*
ean dew-point temperature					٠			Variable.
eneral direction of wind .					٠			
hole amount of rain in the	reel	k.						0.08 fu

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, January 14, 1870, in the following large Towns:-

	ion fn 1871.*	Acre.	Jan. 14.	during an. 14.	Ten of A	ipera ir (F	ture thr.)	Temp. of Air (Cent.)	Rain Fall.	
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an Ac (1971.)	Births Registered the week ending J	Deaths Registered the week ending Ja	Highest during the Week.	Lowest during the Week,	Weekly Mean of Mean Daily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetros.
London	3258469	41'8		1896	44'8	18-3	33.0	0.98	0.08	
Portsmouth	125464	13.1	77			23.0			0.00	0.00
Norwich		10-9				23.0				0 00
Bristol		87.0		118		19:1	30.2	- 0'83	0.78	
Wolverhampton		22.0				21-9		0:11	0.60	
Birmingham		81.7				18 7	31.5		0.11	
Leicester						18-4	30'4	- 0:89	0.33	
Nottingham							36'5	2:50	0.40	
Liverpool						41 0	300			
Manchester		93-5				18-8	30:6	-0.78	0'49	1:07
Salford	4.4410000						31'8	-0'11	0.51	
Bradford						27.0		0.90	0.36	0.66
Leeds				150	44.0	27:0	34-3	1.28	0.11	0.38
Sheffield					149-0	18'0	29.2	-1.56	0.08	
		31 1								
Newcastle-on-Type						96-0			0.50	0.21
Edinburgh		4016				29:0		2.50	0.80	0.21
		941				24.5		4:23	0.68	1.78
Dublin (City, etc.+)		831	133			26.0				
Total of 20 Towns		00 8	200	1	101		-	-	-	-
in United Kingd'm	7836941	34 4	5050	4418	51 0	121	33:4	0.78	0.32	0.81
Paris-Week endin	188864	98								
Vienna-Week end ing Jan. 14	622087	68		816			147	-9-62		***
Berlin-Week end		52		1	l					

• The actual numbers of the population of these cities and boroughs, as enumerated at the Census in Aprd next, will probably be available before the middle of the year, and will then be substituted for these estimates.
+ Loclusive of some enumera.



ANGOVE'S DR ACCIDENT CASE

"The advantages are that it will contain instruments enough for almost any accident, together with list, plaster, bandages, tournique, &c.; an keeping this stocked and bung up in a handy placy, you are redy to be off at any moment. It is easily carried on horseback. By faking the instaction of the stocked and bung up in a handy placy, you are redy to be off at any moment. It is easily carried on horseback. By faking the instaction of the stocked and the stoc

ARNOLD & SONS,
Instrument Makers, by Appointment, to Her Majesty, St. Bartholomew's Hospital, Seamen's Hospital, &c., &c., 35 & 36, WEST SMITHFIELD, LONDON.

THE NEW PATENT

AMERICAN ARTIFICIAL LEG.

SOLE LICENCEES:

WATITE

MOORGATE-STREET. LONDON.

HOOPER'S WATER CUSHIONS.

(obtained the only Prize Medal, 1862).





ALSO IN H.M. ARMY AND NAVY.

AND THE INDIAN PRESIDENCIES.





HOOPER, Operative and Manufacturing Chemist, 7, Pall-mall East, and 55, Grosvenor-street, London.

ORIGINAL LECTURES.

LECTURES ON

THE CLINICAL OBSERVATION OF DISEASES OF THE BRAIN AND NERVOUS SYSTEM.

By THOMAS LAYCOCK, M.D., etc.,
Professor of the Practice of Medicine, of Clinical Medicine, and of Medical
Psychology and Mental Diseases, in the University of Edinburgh.

(These lectures have been revised, and somewhat extended, by Dr. Laycock.)

LECTURE II.

Turn law of direction of physiological activity or of the vis servess, applied to the investigation of diseases of the brain and nervous system, is really an application to clinical research of the well-known laws of reflex action. But very few are aware that the direction of physiological activity indicates also aware that the direction of physiological activity indicates also aware that the direction of physiological activity indicates also aware that the direction of physiological activity indicates also may be also as the second of the physiological activity. But we are understood to the motor second of the physiological activity indicates also because of its great practical importance. I must call your special attention to this general fact. As the late Dr. Waller seasons are seasons of the physiological research, I have named it the both anatonical and pathological research, I have named it the physiology in 1850. To will find the extended views of the grants, given by the Academy of Sciences, for experimental physiology in 1856. You will find the extended views of the grants of the physiology in 1856. You will find the extended views of the example. If may psychological text-book, (6). The facts are simple, if the physiological extended views of the deal and without exposing the cord, and it is allowed to survive a few days, certain results will follow. The posterior root between the gaughton and the cord, and it is allowed to survive a few days, certain results will follow. The posterior root between the gaughton and the cord, will be more from the cord. It is thus shown that the gaughton influences the nutrition of the sensory or afferent nerves, and the anterior columns that of the motor nerve; in other words, degeneration goes on the sensory or adentically as far as its ullimate connections, and not unfrequently, therefore, reaches as high as the hemitance of the motor nerves; in other words, degeneration begins and to unfrequently, therefore, reaches as high as the hemitance of the motor nerves; in

We thus understand how it is that in disease one set of fibrus is picked out, as it were, from the rest.

Another point of importance was shown by Waller—namely, that the interverbers agadion influences the antirition of the distal sensory fibrils; for when a mixed spinal nerve is divided on its distal side, both motor and sensory fibrils undergo degeneration. Hence the conclusion that excessive activity or exhausting use of the sensory nerve and ganglia will affect the nutrition of the sensory fibrils. This seems to be the order of causation in certain kinds of locomotor stary.

be the order of canazion in certain annus or nocumous assay. The problem to solve being, then, the order of symptoms, we have to inquire in any case where in the nervous system the functional or structural changes began, and then follow the line of physiological activity. This is already done with much success lave had little attention paid them in this way. There are two such lines in all neuroses—namely, the direct and the decussating—whether the line of activity be centripetal and adoentirie (cenory, afferent) or centrifugal and excentric (anotor, afferent). In either kind, single nerves and nerrecures may be affected, or many nerves and centres centres may be affected, or many nerves and centres do not be sensory nerves in the latter case influence central than of the sensory nerves in the latter case influence central than the centre of the sensory nerves in the latter case influence central than the centre of the sensory of the sensory nerves in the latter case influence central than the centre of the sensory of the sensory of the sensory nerves in the latter case influence central than the centre of the sensory of the sensor of the sensory of the sensory of the sensor of the sensory of the sensor of the sensory of the sensory of the sensor of t

phrase meaning diffusion, anatomically, of the degeneration among the centres—so that several functions are disordered. I will give you illustrations of these views.

will give you illustrations of these views.

An injury to a sensory or afferent nerve may be followed by varying centric disorder and disease. In traumatic tetanus of the control of the

the great weight of the sufferer lead to the inference that the degenerations were dishthet.

The element of time is a very simportant point in the diagnosis. The element of time is a very simportant point in the diagnosis are to may extend over several years. In July, 1868, I saw a captain in the Royal Navy, who, filteen years before, when a enptain in the Royal Navy, who, filteen years before, when a midshipman, fell about eight feet as he was descending Table Mountain, Cape of Good Hope. He received a scalp wound, which bled freely, and the thought he must have been made unconscious. The Surgeon of his ship examined, but found no fracture, and dressed the wound, which healed well. left parietal region, and the surface slightly depressed. This had led some to propose trephining. Twelve years subsequently to the injury, he married, and shortly after had habitual head-nees, with mestal depression, increasing until he bocame profoundly melancholic. Rest from sortive duty restored him to comparative health of both body and mind, but his manner combinued to be psculiar. He, however, resumed charge of a soft the Irake cost, watching the Fennian. This exhausting work induced a series of neuroses of the encephalon, which were progressively intensified into structural disease, nutil (when I saw him) he was weak of mind, incapable of movement, passed urine and frecosi involuntarily, and had great difficulty of articulation, as well as an incapacity to express his ideas by appropriate and frecosi involuntarily, and had great difficulty of articulation, as well as an incapacity to express his ideas by appropriate the injury to the scalp. Long as this period may appear, I knew a major, whose insanity was attributed, and I believe the injury to the scalp. Long as this period may appear. I knew a major, whose insanity was attributed, and I believe the finity to the scalp. Long as this period may appear.

where the relation of these exciting and predictions are the outries of Waterlook, thirty years previously and predisposing causes to the The relation of those exciting and predisposing causes to the The relation of these exciting and predisposing causes of the Control of the

⁽a) "Mind and Brain," vol. ii., p. 403, Vol., I. 1871. No. 1074.

predisposes. Any shock to the nervous system, sometimes compressively slight in character, often serves to waken the domant tendency into activity. Marriage, which was thus operative in the case of the naval officer, is specially influential when entered upon in old age, or at the elimacteric period, which practically are the period when constitutional tendencies which have direct sympathies with the brain and ord are thus which have direct sympathies with the brain and ord are thus apt to be exciting causes.

The decuesting anatomy of the nervous system must be smeled to observe well these various causes. In the optic nerves sad their commissure we have an illustration of both the direct and decuestating anatomy of all the sensory nerves of the trust and insubs. But afferent nerves, which do not naturally subserve to sensation, will influence the opposite side of the central cause. Thus, there is a connection between wasting of one of the control of the con

In connexion with these inquiries into the line of physiological activity, there are rules for examining the patient as to his subjective symptoms. A patient complains of inability to move a limb or limbs; is the feeling delusive or is it true? First, note the state of nutrition of the muscles; their size; their tendency to fibrillary tremors; their contractility under galwanism; their reflex sensibility. In wasting palsy, in sclerotic hypertrophy, and in fatty degeneration, the nutrition of the muscles is involved. In all kinds of centric palsies in muscless is involved. In all kinds of contro paises in which the patient can make an effort to move, there is defect of function somewhere in the line of volitional activity between the seat of will, which is unaffected, and the muscles to be moved; and this may be either on one or on both sides of the cerebro-spinal axis. But where is the seat of will? Like questions arise when we have to deal with the sesthesies and vesanise, as to the seat of pain and of with the estincies and vesame, as to the seat or pain and up feelings and emotions, and even in local inflammations. In sensory phenomena, we ask, Where do they originate? A patient complains of a feeling of heat or of coldness in one leg; the cause may be increased or lowered temperature of the part, and the feeling be real; but it may be due to changes somewhere either in the line of physiological activity or in the "sensorium commune." If scated in the nerve, the change is in Abrils on the same side as the feeling ; but if in the cord, it may be either on the same or on the opposite side, according as a direct or decussating fibril is affected. This seems to be a difficult question to determine; but we may come near the truth by ascertaining the comparative temperature of the two legs.

If the leg said to be hotter is actually the colder, then the sensation is delusive, and the cause of it is on the opposite side. This is so common in spinal lesions, that you should nover take the patient's statement to be a correct expression of the seat of his feelings; the thermometer must decide.

The due observation of all subjective symptoms is difficult, on account of other sources of fallary. Many hallacinations and delations of the insane, when, like those of illusive hotness, mot contrary to probability, can only be tested by inquiry into the facts. On the other hand, the physical tests of sensibility, to be accurate, require a more intimate knowledge of the sensory nervous system than we possess. The sensory fibrils, genuin, and columns are evidently complet in structure, and the singular columns are evidently complet in structure, some on which constitute one of the class of 'guiding sensors on which constitute one of the class of 'guiding sensors on which constitute one of the class of 'guiding sensors on the constitute one of the class of 'guiding sensors on the constitute one of the class of 'guiding sensors on the constitute one of the class of 'guiding sensors on the contract of the contract o

to sleep because his buttocks are so cold, and that he is obliged to put his hands upon them to warm them. On careful cross-examination, it turns out, however, that it is not the skin over the nates that feels or is cold, but the flesh below. Claude Bernard has shown experimentally that there are two kinds of nerves in muscles, of which one kind, connected with the sympathetic ganglia, regulates temperature and the activity of the circulation; the other, derived from the anterior columns, regulating the contractions. 5. It is probable, also, that there are chemical nerves to be distinguished from the thermal. Claude Bernard has shown that the screetion of saliva depends on the contraction of the best catabled facts in vegetable physiology, for light affects both their colour and size, as well as the direction of growth.

The means available to sensory physical diagnosis with these precautions, besides the thermometer, are—special apparatus for measuring vision, as used by ophthalmic Physicians; and the like for hearing. Persons are often not deaf when they hear badly, but, like short-sighted persons, have a defective co-ordination of the muscular part of the apparatus of hearing. Let the complex of the superior of the contract of the contract

nostrils.

The sethesiometer is valuable as a test for common sensibility and for touch, and should be used not merely to discover about a messthesia, but degrees of diminished sensibility. Observations I have had made show that this occurs in poortiasis, in sphilitic skin diseases, and in other cutaneous affections in sphilitic skin diseases, and in other cutaneous affections in legrous, and indicates a trophical nervous adebility. But the skin should also be tested by pricking and pinchings, by touch of things hot and cold, and by chemical irritants. The rate of transmission of sensory and volitional impulses is also capable of measurement in a ready way, as well as by the means first adopted by Helmholtz. In general paresis and similar discases I have been able to roughly settinate the always and the contract of the margin of the rise of the margin is nine of enlarged vessels seen sometimes in irritable persons, following the course of the margin of the rise, she dry on the left side, which I name precordial vascularity. So far as my experience goes, it is seen exclusively in men, and, in 60 per cent. of those who have it, is constituted.

The dynamometer is used to ascertain the strength of muscles and the sense of weight. The hand of the Physician is a natural dynamometer. A sharp tap as distinguished from touch of the skin, and a galvanic current, may serve to determine the contractility and irritability of muscles. In convulsions and determined in two ways. Simulated spasmodic contraction of limbs disappears under chloroform; simulated epidepsy and convulsive diseases are not usually accompanied by a rise in

temperature.

A large amount of felley in observation results from our ignorance of the anatomical relations of that unity of consciousness which metaphysicians term the Egs. Every modification of this state coincides with some vital encephalic change, of the nature and seat of which we know little. This we know, brower, that the function of that part is to unite the two halves of the body; and, following out the rule I have already laid down, we know, too, that to this end there are certain lines of sensory physiological activity which commence are these beginning at the glan penis or the certain the control of the control of

kinds of palsy. In a typical case of locomotor ataxy the patient cannot walk steadily, because exact guidance of the legs is impaired; he comes down with a stamp on his heels, and feels as if he were treading upon something soft. Place him on his back, however, and he then can flex and extend on his back, however, and no then can mex and examination in list legs in any way he pleases, with unimpaired vigour. This fact shows that the co-ordination of the lumbur and other numbeles necessary to the act of walking is impaired, the essential element of which is the maintenance of the equilibrium essential element or which is the maintenance of the countries of the body in opposition to the attraction of gravity, which the child has to learn at the cost of many a fall before it can walk safely. We are wholly unconscious of this operation of the force of gravity, because we constantly resist it automates. tically under the influence of external impressions. These are interrupted in locomotor ataxy by a special disease of the sensory nerves, cord, and ganglia, and the patient thus becomes wholly dependent for the requisite guiding sensations upon whosey supersistent for the requision guinning sensations upon regulated, through the corpora quadrigments. Hence it is that if he be made to stand with his feet parallel, and to shat his eyes he shortly losses his equilibrium, and would fall as if he were a statue unless held up. Now, when I treat of this kind of palsy I shall show you that the causes of it operate accentrically on the afferent nerves and centres, which serve to maintain the co-ordination of the muscles of the loins and limbs, so as to constitute a whole

(To be continued.)

ORIGINAL COMMUNICATIONS.

ENTOZOA IN RELATION TO PUBLIC HEALTH AND THE SEWAGE QUESTION.(a)

By T. SPENCER COBBOLD, M.D., F.R.S., F.L.S. Correspondent of the Academy of Sciences of Philadelphia.

Mr. CRAIRMAN AND GENTLEMEN,—On taking part in the discussions at this Association following Dr. Letheby's valuable papers, communicated during the last and previous sessions, one could not help observing how divergent were the opinions entertained on the subject of parasitism, more particularly in

entertained on the subject of parasitism, more particularly in relation to the sewage irrigation question.

That the causes of such diametrically opposed conclusions as were then put forth should remain unexplained seemed to some of us highly objectionable; and, therefore, in the hope of clearing up a few of the difficulties then expressed, and in response to the officers of the Association, who did me the honour to suggest a communication, I have drawn up the

following brief remarks:-

following brief remarks:—
Since the Secretaries of this Association delivered their
report for the year 1869-70, an extended "Digest of Facts
relating to the Treatment and Utilisation of Sewage" has been
prepared and published, under Prof. W. H. Corried's name,
for the Committee of the "British Association for the Advancefor the Committee of the "British Association for the Advanceto the Committee of the "British Association for the Advanceto the Committee of the "British Association for the Advanceto the Committee of the "British Association for the Advanceto the Committee of the "British Association for the Advancetion of the Committee of the Comm the view of criticising the general accuracy of the volume, but rather, with the intention of taking exception to certain remarks made in the final chapter, wherein the writer deals remarks made in the films chapter, wherein the writes sear with the "influence of sawage-farming on the public health." In this place particular allusion is made to the discussion which followed Dr. Letheby's paper, read on May 21, 1870; the author likewise referring to the brochurs written by myself

Professor Corfield demands, and is entitled to demand, facts in rotesor cornect demanus, and is chanted to demanus, naive in support of the general conclusions which Dr. Letheby and myself have arrived at respecting the probable spread of entozootic disease by sevage irrigation; and because the data which I have at various times advanced in this connexion do not happen to be of the very palpable kind that any ordinary observer may detect, he, somewhat imprudently, perhaps, gives prominence to the statements of Mr. Holland, who, on the occasion of the discussion alluded to, expressed his belief "that the danger of spreading disease by the irrigation system was purely imaginary.

In order to estimate rightly the importance of this sort of criticism, it is necessary to consider the question from Mr. Holland's point of view. For example, he finds that there is

(a) Read before the Metropolitan Association of Officers of Health, January 21, 1871.

no evidence of entozoal disease at Carlisle because, on " asking whether the sheep had the rot, "be received a negative reply.

Now, if Mr. Holland had possessed any acquaintance will helminthology, he would have known that "rot" cannot be propagated by the sewage distribution of towns, for the simple roseon that the inhabitant of our cities are not infested with the entozoon, whose eggs indirectly give rise to that particular mulady. Only in some seventeen or eighteen cases has the sheep-fluke been found in the human body; nevertheless, other species and genera of the same family of entozoa are fatally endemic to their "bearers," amongst mankind, in certain countries.

In the next place we are referred to Edinburgh, where, it is said, the cows, though fed with grass from the Craigen-tinny meadows for sixty or seventy years past, afford "ne evidence of the prevalence of disease among them." That That seems conclusive; but in reply to this style of reasoning from negative data, let me tell Dr. Corfield, Mr. Holland, and others whose opinions have been so prominently put forward in this decision, that there is not, in my judgment, a single butcher or flesher in the United Kingdom who has ever either seen or, indeed, acknowledged the existence of measles in the cow, calf, or ox. I have asked butchers and other persons thus concerned whether they have ever witnessed parasites of this description in beef or veal, and they have not only protested that they never saw such things, but they had never previously heard that such entozoa existed in cattle, to say nothing of the existence of similar larval parasites which I have recently shown to occur in the muscles of the sheep. It may, therefore, astonish some persons when I add the expression of my deliberate conviction that at this present moment hundreds, not to say thousands, of the cattle now living in this country are thoroughly well measled, and therefore, also, more or less diseased in the ordinary, but, as I think, unfortunate acceptation of that term. In the face of such recorded experiences as these, I naturally ask..." How it is that any gentlemen, like Mr. Holland, can have the immodesty to ajudge themselves competent to deal with the sewage question, in so far as it is

competent to deal with the sewage question, in so tax at it is concerned with the probable spread of parasitic disorders !" I am scarcely yet persuaded, indeed, that no disease has followed in consequence of the utilisation of sewage at Edinburgh, as alleged; for I find that Mr. James Alexander. Manning, in his reply to Baron Liebig's letter to Lord Robert Montagu, makes the following statement:—"A large dairyman, of Edinburgh, reduced to the humble position of a carter, lost ninety-two cows in three years, from feeding them on the grass produced from the sewage-irrigated meadows of Portobello; another cowkeeper lost his whole stock in one year; and I was informed," he adds, "that the largest cowkeeper in Scotland, who feeds his cows on the grass obtained from sewageirrigated meadows, never keeps a cow for more than three irrigated meanows, never keeps a cow for more than three months; for the moment his keen perception and long practical experience detect any tendency to incipient symptoms of pleuro-pneumonia, he sells the cows to his neighbours, and purchases others." I quote these few recorded facts (if they are facts), however, not so much with the intention of support ing the particular views taken by Mr. Manning, as for the purpose of expressing my doubts concerning the reality of pleuro-pneumonia as being the true cause of the asserted pieuro-pneumonia au octing the true cause of the asserted mortality. The rapueness with which that term is employed by cattle-dealers and others is well known. On the other hand, a correspondent of mine, Dr. T. S. Ralph, in Australia, has gone so far as to assert the essentially parasitic nature of all pleuro-pneumonia—from evidence, nevertheless, which, though truly entozootic, is of a character altogether distinct from that which I suspect to have obtained in not a few of the above-mentioned diseased animals. Surely Mr. Manning could not have committed himself to such statements as the above, if there were no grounds for believing their truth!

But I have further to observe in connexion with this measle malady "or cestode tuberculosis," that, until lately, the only specimens of beef-measle ever seen, or, at least, recognised in England, were those which were removed from cattle subjected to "feeding experiments" by myself at the Royal Veterinary College. Neither Professors Simonds and Pritchard, nor any other persons who assisted me in the investigations there conducted, had ever seen anything of the sort previously. The "measles" were artificially reared in the animals by the intro-duction of the eggs of tspeworms, selected and obtained by myself and friends from the human body; so that it may be said, without hesitation, that these experimental animals, instead of becoming diseased from parasitic germs by means of sewage-grown grass in an indirect or roundabout manner, were infected by certain of the ordinary organic constituents of

sewage, or faceal discharge, itself, in the most direct manner Of course, in such cases we produce a more virulent possible! Of course, in such cases we produce a more virulent form of the measle malady than can ever obtain under the ordinary circumstances by which the disorder is propagated; and, therefore, it is also desirable to remind Mr. Holland and those who support his notions that the presence of measles in those who support his notions that the presence or measure at cattle does not necessarily give rise to any conspicuous symptoms of suffering. It is true that the calf we experimented on nearly succumbed to the disorder, whilst the health of the older animals was only slightly affected; but in these cases the numbers of six-hooked embryos actually traversing their bodies were collectively enormous—that is to say, many thousands. It needs but little reflection, therefore, to perceive that cattle fed upon sewage-grown fodder can never infest themselves to such an extent as to cause conspicuous suffering on their part. Yet, at the same time, it is perfectly clear that the likelihood of their becoming "intermediary bearers" of the larve of human tapeworms, is a thousand-fold increased by the fact of their being fed on grass reared under the conditions referred to.

I may here remark, in regard to the invasion of parasites i may here remark, in regard to the invasion of parassive generally, that the question of suffering frequently, though not invariably, depends, firstly, upon the number introduced, secondly, upon the age of the 'bearer,' and thirdly, upon his sensitivity. Even in the case where a single entozon takes up the residence in the brain or other inportant organ, the constitutional power of the host for resisting irritation may alone determine the degree of suffering or of fatality involved. My investigations with triching give similar results to those afforded by the measle experiments. It is astonishing what an amount of infection old animals will bear from this source. Thus, a sow in which I reared some fifteen or sixteen millions of trichinse, never displayed any symptoms of pain, nor did the animal lose its appetite for a single day. When slaughtered, the flesh appeared so healthy to the naked eye, that bystanders refused to believe that the animal was diseased. One assistant, even after microscopic evidence, desiring to remove portions, as a perquisite, for home consumption. In point of fact, he succeeded in carrying off the heart; and I understood that he ate part of it. As I have said, young animals do not bear infection so well as old ones; and thus, in the case of the three pips infected by Dr. Thudchnm, two became ill, whilst the third died. These 'hosts,' respectively, were 'less than three months old.' Rats and rabbits appear to resist the action of the flesh-worm migrations very successfully, and the same may be said of cats and dogs. In the case of one full-grown cat, however, I had great difficulty in restoring the animal, the acuteness of trichiniasis depending upon an extreme degree of

infection. The style in which some unscientific opponents write is scarcely creditable to them. Thus, Mr. C. P. Gower, in criticising Dr. Letheby's paper (as it appeared in the Jpswich Journal of August 27, 1870), accuses Dr. Letheby of talking "a little at random about measily meat," and asks if the parasitic ova might not be "discoverable adhering to the blades" of grass, in cases where irrigation has been employed. of grass, in cases where irrigation has been employed. onaces of grass, in cases where irrigation has occu employed. Mr. Gower evidently thinks that the ova of entosoa measuring leas than the dy'in diameter ought (if our views be true) to be picked up by those who visit "sewage-irrigated grounds" with as little difficulty as the country folks experience when they hunt up plovers' eggs at the proper season. In short, Mr. Gower's long and vigorous letter in the Ipswich Journal betrays a want of knowledge of the rudiments of entozoological science.

I may in the next place observe that it is not very surprising that the general public should disregard any warnings uttered that the general pulpe anoma unergaru any warming sur-respecting the probable increase of parasitic disorders from sewage irrigation, since, as obtains in the case of many other evils, no one thinks of demanding an investigation until a readily recognised calamity occurs. It will be said, in reply, readily recognised calamity occurs. It will be said, in reply, that the absence of any palpable evil is a proof that there is no need of inquiry. This is the very point I am disputing. Take the case of trichina. It is not perfectly clear that, but for Dr. Zenker's discovery that fleshworms "were capable of giving rise to a violent disease in the human body," we might have remained ignorant of the disorder, as such, to the present day. It is extremely improbable that the entozoal character of day. It is extremely improvation that are entirely a managers were recent epidemics would have been recognised, but for that discovery. Not a doubt exists in my mind that virulent and even endemic forms of the same trichinal disorder occurred from endemic forms or the same trichina unorder that time to time during former years; and yet no one so much as hinted at their parasitic origin. Persons have even recalled past outbreaks, which were at the time attributable to some other disease; and at least one individual allowed himself to be har-pooned in the interests of science. The extraction in this way of calcified trichina capsules proved that he had suffered from trichiniasis some ten years previously. It may further be safely urged that but for these trichina revelations to other the Lords of Her Majesty's Council nor their energetto Medical Officer would ever have thought of demanding a "Report on the l'arasitic Diseases of Quadrupeds used as Food. Report, written in 1864 and published in 1865, cannot be said to meet all the requirements of the case before us, it constitutes, nevertheless, a most valuable contribution to our knowledge of the triching disease; and almost as much may be said of Dr. Thuddehum's shorter paper "On the Diseases of Meat as affecting the Health of the People." suiss quently communicated to the Society of Arts.

In connexion with these veal- and beef-meas's experiments. In conexion with these year and beel-mease experiments, may further observe that, although I naw already (partly with the co-operation of Professors Simonds and Pritchard, of the Royal Veterinary College) made their general results public through the Proceedings of the Royal and Linnessa Societies, I have hitherto had no sufficient opportunity of explaining their importance in relation to the sewage question. This I know propose to do; again remarking, by the way, that the disorder thus superinduced is only one of the many parasitic diseases liable to be increased by extensive irrigation schemes. Here let it be borne in mind that the particular larvæ under consideration can only be propagated in the flesh of the ox, cow, and calf; at least, I am not aware that this cysticercal form has ever been detected in any other animal " and it certainly has not been recorded as occurring in the human body. This last-mentioned negative fact is the more remarkable, since the armed measle of the pig enjoys a comparatively wide distribution, whilst the adult representatives of both species exclusively infest the human bearer. It is by no means improbable, however, that this limitation may be eventually found to be untenable. Be that as it may, I have repeatedly shown that the beef tapeworm (Tania mee nave repeatedly shown that the beet tapeworm (Tenia medio-cencilate) is more common with ourselves than the species derived from pork; nevertheless, this is not the view most generally held. Here I do not care to reiterate the data on generally near. Here I do not care to reacrate the data on which I first formed and taught that conclusion some years back, as I only once more allude to the fact in reference to the practical consequences of its due recognition. These are manifold. Thus, those persons whose religious convictions prevent their partaking of swine faces here results from Zemin solium; their partaining of awine a near never same: Iron zeros sonial, while, then the will never play the part of "host" to any members of the tapeworm family. He is, however, in my indepment, the more likely to be infested by oxyurides and sacarides, especially if, at the same time, he is bound hand-and-out to the principles of tectotalism. It has also, to be noted that neither of these exclusive habits as regards diet and drink will ward off the possible contingency of invasion from the will ward off the position countinged of invision from the cysticerous of the pork tapeworm, which, by the way, when taking up its residence in the brain, gives rise to epileptions esizures. Fortunately, death is not common from this source.

But it will be said by Mr. Holland and his supporters that these mere Professional facts have nothing whatever to do with

the question in which they are more immediately concerned. It is hopeless, perhaps, to attempt to induce them to think otherwise. In vain we assert that a single person affected with tapeworm discharges thousands of egge daily, and that the majority of the germs thus distributed pass into the sewage of our towns. In vain we explain that the further dispersion of these germs over our fields and market gardens ensures a more than ordinary facility of access into the bodies of cattle and other intermediary bearers. All such arguments, as well as others quality cogent, go for nothing. What these gentlemen desire in order to produce conviction I have already hinted at. To be still more precise, they say, in effect— When, in the the question in which they are more immediately concerned. men dears in order to produce conviction I have acreasy mited at. To be still more precise, they say, in effect—"When, in the neighbourhood of our towns, and on our sewage farms, we see the sheep rotting from flukes and staggering from gid, and the ozen, cows, and other domesticated animals dying off by scores, as if attacked by a new plague, then your warnings shall receive consideration; but in the absence of trichiniasis and other virulent forms of entozoal disorder, we shall continue to maintain that 'the spreading of disease by the irrigation system.

is purely imaginary."

This kind of reply, as I have already urged in the Introduction to my small work on "Human Tapeworms," now out of aton to my small work on "Human Lapoworms," now out of print, is quite satisfactory to the persons making it, so long as they themselves remain free from internal parasites; but when they are attacked the case is far otherwise. In the many they are attacked the case is lar otherwise. In the many instances of real suffering which have come under my Professional care—and some of which, it may be said, could never have occurred but for the fact of germ-dispersion, taking place in one or other of the ways already explained—I can testify that such assurances as the above afford very little comfort to that such assurances at the content of the content have not increased in consequence of sewage distribution, I do not hesitate to say that such a state of things would not disprove the injuriousness of wholesale irrigation, but would show, rather, that the untiring exertions of our sanitary officers have more than counterbalanced the excess of evil arising from this source; and in connexion with these special interests the source; and in connexion with these special interests the members of this Association may justly lay claim to have played a most conspicuous part. But, as I have previously said—or, at least, inferred—we are not yet in a position to afford absolute proof, either one way or another. The methods thereto employed have not, and could not have, onabled us to obtain satisfactory eridence as to the increase or decrease of parasition, as the case may be. Comparatively few people recognise the importance of precise information on this subject; and I believe I am the only Professional Seather who has

at a Medical College. Again, if anyone seeks for information in the Registrar-General's report as to how many cases of death from parasites occur annually, what will be find recorded? Nothing. The whole subject is in confusion, and will continue to remain so for a long time to come. Some years back, when investigating the question as to the mortality from parasites, I failed to find, the question as to the multiplication in the Medical journals, any sublic record of deaths from entoxoal disease. Thus, death public record of deaths from entozoal disease. Thus, death from parasites in the brain, liver, lungs, heart, and other organs would be registered under epilepsy, diseases of the liver, and so forth, to say nothing of the multitude of instances where the true nature of the disorder has unquestionably been where the true nature of the disorder has unquestionably been overbooked. Long ago I took occasion to express my belief that annually several hundred persons died in this country from parasitied diseases, and I have since seen no reason to change that opinion. Far otherwise; and therefore, taking example from the spirit which animates the whole body of the Profession, I spared no pains to enlighten the public on this matter, in so far as such difficit might tend to lessen the pre-

ventured to give special courses of lectures on helminthology

valence of certain well-known maladies.

Once more reverting to a principal point at issue, many will say with Dr. Corfield that we ought not to condemn the irrigation system, since no entoroal evils of any kind have arisen in localities where there has been a "long-continued applica-tion of fresh excrement and sewage." My reply is, that it is not the ntilisation of sewage itself that I object to, but to certain wholesale methods of distributing it over the land in a fresh state. As to the assertion that no harm follows irrigation, no matter to what extent it be carried out, I have already shown the fallacy of drawing such conclusions on entozoological grounds, without so much as touching upon the overwhelming evidence that sewage exhalations and contaminations are apt to give rise to dysentery, cholcra, and fover. Speaking as a helminthologist, I contend that no closet-made reports, however valuable from a literary point of view, can be of any real practical service unless based upon an extensive acquaintance with the various forms of entozoa, and also npon evidence as to their prevalence, not only in the human subject, but also in the more important of our domesticated animals. Even an examination of dead animals not ordinarily used as food has indirectly thrown considerable light upon questions of general interest in this connexion.

In the next place, I may remark that not only are many forms of helminthiasis amongst mankind and animals ascribed to particular parasites which are in no way concerned with their production, but a still larger number of diseases have been described as helminthic where neither entozoon nor parasite of any sort existed. My experiences on this head, both Professional and otherwise, have been very remarkable, and not unfrequently of a painfully interesting character. If it be asked, therefore, what good result could follow further research in the direction I have indicated, I can confidently appeal to the knowledge of entozootics already acquired from helminthological investigation; and I am in a position to say that the mere registration of the relative abundance of different species of entozoa in separate "hosts" and localities might alone afford a fair and useful criterion as to the extent to which particular entozootics normally or abnormally abounded. I have indeed already attempted something in this direction, but the labour and expense involved in inquiries of this description have prevented my carrying out the researches to the necessary extent. Thus, between the years 1857-60 inclusive, I was enabled, through the kindness of the authorities of the Zeological Society, to examine the bodies of no less than 122 vertebrates

which had died at the menagerie, Regent's-park. Of these animal "hosts," I found thirty-eight harbouring, collectively, fifty-one different species of entozoa, amongst which was the remarkable Bilharzia hamatobia, up to that time only known to infest the Bilharzis hemstebia, up to that time only known to indest the human body. The interest and importance of this fact will be inferred from what appears in the sequel. Again, at a subse-quent period, and with a still more obviously practical end is view, I. carefully examined the 620 preparations of entones and catoroid disease which, by patient searching for many weeks, I found dispersed throughout nine of the pathological muscums of the metropolis. The results of this separate investigation were most instructive, part of them being embodied in a brief paper published in the Lancet for May 13, 1865. Much of the information which I have thus acquired will never be utilised in any way. In this relation, therefore, I may be be utilised in any way. In this relation, therefore, I may be excused for remarking upon the good results likely to follow the delivery of short special courses of lectures on helminathe-logy as part of the ordinary Medical curriculum. The subjec-ie eminently practical; and at the Middlescx Hospital, I have found students who, though they thought it a nuisance to attend lectures on loctany, have not failed to manifest great interest in my discourses on paradies in relation to the discesses. of mankind and animals.

I see by the Times of December 12, 1870, that the Medical officer of the Privy Conneil has commented very severely on the power of water companies in general, and of the Vauxhall Company in particular. That criticism, of course, bears reference to the spread of diseases-such as fever, cholera, diarrhora, and dysentery—in consequence of the ascertained presence of sewage impurities in drinking-water. From the strong language employed, one would almost be led to think that the responsible officers of these companies were divested of the commonest feelings of humanity. Of course, such cannot be commones recings of numanty. Of course, such cannot be the case. In all probability these gentlemen are by no means satisfied as to the "proofs" of their power for evil; or, in other words, they do not see the connexion between infected water and the numerous deaths alleged to result from its use. I am not surprised at this; but, seriously, if these offenders were really animated by a desire to do their neighbours still greater injury, I think I could put them up to a plan by which, with the aid of entozon, they might decimate the population of the East-end of London, without any probability of their being "brought to book" for it. And I may add that, perhaps, even Mr. Simon himself may not be fully aware to what extent entozooties may be propagated by sewage irrigation, or, for that matter, without it, whether intentionally or otherwise, by means

Let, therefore, the promoters of irrigation and the members of water companies alike pause before they sanction methods by or water companies aims pause ectors they salted methods by which new organic imparities are likely to be introduced into the "meat and drink" of our teening population. If, a Fre-fesor Tyndall demonstrated at the Royal Institution only yesterday, mere "pellucidity is no proof of the absence of soluble impurities" in water, it may also be said that clearness of water offers no proof of the absence of insoluble impurities, in the condition of germs of entoons. One hundred tapeworm agegin in a glass of water would neither render the draught turbid nor reveal the presence of the germs to the naked eyn. Bearing these facts in mind, it is some relief to seeby thereport of the Metropolitan Board of Works, published in to-day's Times (January 21, 1871), that the Essex Reclamation Company's proposition to utilise the daily supply of 270,000 tons of London sewage by the irrigation system is not likely to be carried out. At all events, the Board will neither advance money, nor afford

At an events, us board win neither savance money, nor amoru the Company support of any kind.

In regard to the possible introduction of the little blood-fluke (now commonly known under the generic title Bilharia, which I first gave to it), a few words of explanation will natawhich I first gave to it, a rew works of explanation will nata-rally be looked for. Whilst many have ventured to eriticise unsparingly the warnings contained in my brockers already alluded to, others, like D. Letheby, have not failed to give more consideration to my statements. Any careful reader of the pamphlet, however, will perceive that I never asserted that the Rilbarzia disease was sure to be propagated amongst us; but I did state that, in view of a much larger amount of eggdispersion by means of sewage irrigation, it was by no means improbable that this African malady might become naturalised improcesse that the Artican masson sagare specifies in this country. By the data then in my possession, I was perfectly justified in taking up this position; but, since the time ordered to, and only very recently. I have had ample opportunity of personally studying the disease as it occurred, and still exists to a less marked extent, in a little girl who has come from Natal, South Africa, to be placed under my Professional care. The details of this case I reserve for publication elsewhere; but the Association will readily gether its impor-tance in relation to the irrigation question when I state my belief that, for months past this patient has daily given off with the urine at least 10,000 eggs of Bilbaria hematobia. Was both frequent and excessive; but, not to dwell on Medical details, the only other point I care to insist upon just now relates to the degree of larral develop-ment hitherto noticed by observers abroad, and by Dr. John Harley in this country. I am happy to say that I have been larley in the country. I am happy to say that I have been further degree of development than has hitherto been wit-nessed by any other observer; yet much remains to be accom-missed by any other observer; yet much remains to be accomnessed by any other observer; yet much remains to be accom-plished before our knowledge of the entire genetic relations of this remarkable parasite will enable us to clear up some of the important practical questions raised by myself in this con-mexion. I may add that, although I have vainly sought by experiment to rear the higher larval stages of this entozoon in the bodies of various kinds of intermediary hosts, I have, nevertheless, succeeded in rearing and watching the habits of nevertheless, succeeded in rearing and watching the habits of the larva in the condition of an actively-swimming, come-shaped, clinedy. Infraerial animaleute, furnished with a highly discount of the contract of the contrac water than in fluids which contain impurities of any kind; so that, in short, we may say that the young of Bilharzis cannot arrive at their ultimate destination, in the bodies of mankind and monkeys, until the urine or sewage in which they occur shall have been more or less considerably diluted with fresh or salt water, in either of which media, my recent experiments, thus far, prove that they are capable of developing themselves

thus far, prove that they are capacie of usveroping incurrence with extraordinary rapidity.

In concluding, I may observe that since the preceding remarks were penned I have received a new and interesting illustration of the fact that entozootics amongst animals are illustration of the fact that entozootics smonges animass are constantly overlooked, even where the parasites occur in con-siderable numbers. I refer to the prevalence of Stephanusus dentatus in the swince of the United States, the particulars of which curious discovery I have already communicated to the last week's number of the Drivith Motical Surrant (January 14), last week's number of the Drittin Medical Journal (January 15). Finally, also, let me add that I have not by any means attempted or desired, on the present occasion, to treat the subject before us exhaustively. I shall, however, have accomplished all that was proposed if, in the judgment of the Association, I have succeeded in demonstrating the high probability, not to say the certainty, of a large increase of parasitism smongst mankind and animals, as arising from the distribution of frosh sewage by the method of irrigation on an extended scale.

A CASE OF BRONCHOCELE (GOITRE). SUCCESSFULLY TREATED BY ELECTROLYSIS AND SUBCUTANEOUS INJECTIONS OF IODINE.(a)

By ADOLPHE WAHLTUCH, M.D., L.R.C.P. Lond., Fellow of the Obstetrical Society of London; Honorary Member of the Medical Society of Prague; Corresponding Member of the Society in Lordon, Honorary Member of the Society Impériale de Médicino d'Constantinople, etc.; author of "A Dictionary of Materia Medica and Therapeutics," 1883; "On Catalepsy," 1899.

Miss E. C., from Bury, aged 27, consulted me in May, 1869. For the last four years she had suffered from bronchocele, and had been continually using iodine internally and externally without experiencing relief. On examination I found the thyroid gland enlarged, the right and middle lobe being larger than the left lobe. The size of the tumour was that of an egg. I at first ordered bromine internally and externally, and as there appeared to be no change, I commenced, on July 14, 1869, the electrolytic treatment, beginning with eight Daniell's elements and the insertion of one needle, and gradually increasing to sixteen Daniell's elements and the insertion of January 5, 1870—in all twenty-eight times.

The mode of operation was the following:—I inserted the needle, connected with the negative pole of Althaus's permanent battery, into the tumour, and closed the circuit by placing a moistened sponge connected with the positive pole to the skin of the neck. I allowed the current to act at first for ten minutes, and at subsequent operations gradually increased the

time to fifteen, twenty, thirty, forty-five, and sixty minutes. The tumour after each operation became softer, and began to swell; the enlargement continued for twenty-four hours, after which the tumour gradually subsided to a size below its original dimensions. After the twenty-fourth operation (November 24, 1869), the tumour had diminished to the size of a hazel-nut, and 1989), the tumour had diminished to the size of a hazer-nut, and consisted of the right lobe alone (the left and middle lobe having been reduced to their normal size). The four especeeding operations, performed weekly till January 5, 1870, did not produce any marked change, although I used sixteen elements, three needles, and permitted the current to pass for an hour each time

each time.

I stopped all treatment for six weeks, during which time the size of the tumour remained unchanged. I therefore adopted another form of treatment—viz., the hypodermic injection of iodine tincture into the enlarged right lobe of the thyroid gland. I at first injected one minim of tinctura iodi diluted with nine minims of distilled water, then two minims with eight minims aqua; then five minims with five minims aqua; then pure iodine ten minims, increased to fifteen minims, and lastly to toune ten mixims, increased to inteen minims, and lastly to twenty minims (making two injections of ten minims in two separate places). In all, I operated sixteen times from February 19 to July 20,1870 (fortnightly till May, after this once a month), by which date the tumour had disappeared. I saw her again in the middle of September, and there was no enlargement of the gland to be noticed.

The pain from insertion of the electrolytic needle was very slight; after the first application the patient felt sick, but nover afterwards. The traces of the puncture soon disappeared, and permitted a fresh insertion of the needle.

The hypodermic injection of iodine never caused either pain or suppuration, with one exception; and on this occasion the evil effects were produced by a bend at the end of the injection-needle. Small and diluted doses had no effect, but after the injection of larger doses (fifteen to twenty minims of pure iodine tincture) the result was remarkable.

Now, a few words on electrolysis. This term has been given Now, a few words on electrolysis. This term has been given by Faraday to the electro-chemical decomposition produced by the immersion of the conducting-wires of a galvanic battery into any inorganic or organic compound. Water is thus decomposed, the oxygen appearing at the positive, and the hydrogen at the negative pole. Metallic needles connected with a battery, when introduced into an animal liquid. decompose it, and the positive pole becomes oxidized and chlorinated, and changes from a metal into a metallic salt, while the negative pole remains unchanged, the hydrogen or free alkali formed by the electrolytic current having no chemical effect on formed by the electrolytic entrent naving no chemical euect on the metal. Hence the negative pole alone can be safely intro-duced into animal tissue; not so the metallic needle connected with the positive pole, which, being thus changed, would act as an irritant foreign body, and cause inflammation or suppu-

Althaus's observations explain the modus agendi of electrolysis on dead or living animal tissue. Firstly, the action is mechanical; the nascent hydrogen formed at the negative pole rises in innumerable bubbles, and forces itself between the structural elements of the tissues, driving them asunder. Secondly, the action is chemical, the free alkali (soda and potassa), which, together with the hydrogen, is formed at the negative pole, acting chemically on the tissues. This action will account for the enlargement and softening of the tumour after each operation. I must add that I never noticed any clevation of the temperature during or after the operation.

I have also used the electrolytic treatment in several cases of I have also used the electrolytic treatment in several twices to obstitute and old warts; they all at first began to enlarge and to swell, and subsequently diminished. In these instances I particularly noticed the combination of the mechanical action of the nascent hydrogen with the chemical action of the free and caustic alkali.

I also used electrolysis with good results in two cases of cystic tumours. The one was that of a young lady, Miss J. O., of Manchester, aged 16. She had a cystic tumour, the size of a walnut, on the left wrist, on the side of the radius. I inserted two needles connected with the negative pole, and closed tho circuit by placing a moistened sponge, connected with the positive pole of a battery of four cells, to the skin near the tumour, and allowed the current to pass for ten minutes. She felt a strong pricking sensation during the whole of the opera-tion in the skin, profeeding from the positive pole. I repeated this operation every sixth day, and after four operations the tumour had entirely disappeared. I saw her again a year later, and no traces of the tumour could be seen.

The other case was that of a little girl, J. B., aged 7, suffering from a similar cystic tumour, but one of more solid consistency, situated on the left wrist. I used twelve Daniell's cells, and inserted first one and then two needles. Eight operations within two months sufficed to free her from the cyst. I can, therefore, corroborate the sistenent of Althaus, that solid cysts require a larger number of cells than liquid cysts; for in my first case four elements were sufficient to reduce the tumour in eighteen days, while in my scond case I had to employ create being more solid than the first.

J. In my see of two assets, the immour was of a solid nature, and I believe the reason that it did not get smaller after the twenty-fourth operation was, that the employment of six tene elements had been issufficient, while I might have completed the cure without the iodine injections had I used a more powerful battery. Nevertheless, the ultimate good result of the hypodermic injection of iodine appears to me to justify a further trial of that treatment in cases of glandular enlarger.

Manchester.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

UNIVERSITY COLLEGE HOSPITAL.

MYXOMATOUS TUMOUR OVER PAROTID-RE-

MOVAL—RECOVERY. (Under the care of Mr. ERICHSEN.)

THE account of the following case is taken from notes made

under the direction of Mr. Beck, the Surgical Registrar; — Thomas K., a tailor, aged 47, was admitted into Mr. Erichsen's male ward on August 2, 1870, with a swelling in the position of the period gland on the left side. There was nothing special in his previous history, or in the history of his family, of gout, which had left him with concretions in the joints of fingers and toes. Two years ago he first noticed a small pimple below the left ear, which grandually increased in size. He never felt either pain or tenderness, but only a sense of tightness over the tumour, and his general health had remained

On atmission, the following note was taken:—The patient is a healthy-looking man. On the left check is a tumour extending from the sygomatic arch above to the angle of the jaw below, and filling up the hollow between the jaw as the testing of the sterior masked muscle. It is rounded on the surface and coarsely lookisted, a small holube seeming to extend behind coarsely lookisted, as small holube seeming to extend behind opposite to the angle of the jaw. For the properties of the same opposite to the angle of the jaw. For the properties of the same straight angles to the vertical plane. The whole mass is about the size of a hear's egg. The most prominent point is rounded, soft, and fluctuating like a cyst. The rest of the mass is cleatic. It is freely movable over the parts beneath, and is nowhere ashevent to the skin. It has no enlarged veins on its are not enlarged, and the properties of the part of the

Mr. Erichsen made a small puncture into the fluctuating point. No fluid escaped, but some roddish gelatinous substance came ont on squeezing. Under the microscope this was found to consist of delicate branched cells in a homogeneous matrix. On August 3, chloroform being given, Mr. Erichsen proceeded to remove the tumon. An incision was made at the posterior border, and another from the middle of this across the tumon; at right angles. The flaps were then raised, and the tumour exposed. In trying to raise the mass from its bed, the whole substance broke down, leaving a fibrous capsule with bits of tumour adherent to it. This was carefully dissected out, no resealed on rervesof importance being involved. Two ligatures were applied, and the wound was then plugged with dry lint, and the edgees partly brought together with silver satures, a

were appased, and the wound was then plugged with dry lint, and the edges partly brought together with silver autures, a pul of dry lint being bandaged over all.

——Mr. Becker report of the structure is as follows:—The tumour presented the characters of a pure myzoma. It was composed chiefly of branched cells. The cells were various and irregular in shape. The number of tails varied from three or four to one, and in some parts of the tumour masses of simple rounded cells lay

packed together. The diameter of the cells ranged from $\frac{1}{2}$ th to $\frac{1}{12}$ th can here has distinct round nucleus, in some cases with a well marked, shining nucleous. The interesting a substance varied very much. In some parts it was clear and homogeneous, in other granular, white and yellow fibres. It contained no fat, and no cells resembling those of cartilage were found anywhere. The juice from the tumour could not be collected in sufficient quantity for examination for mucin, as the whole tumour books down in removal. After the operation, the wound leaded well by granulation, without any untoward symptoms, the country on Angust 19.

SOFT ENCHONDROMA OF PAROTID—REMOVAL OF TUMOUR—ERYSIPELAS—RECOVERY.

(Under the care of Mr. ERICHSEN.)

Isamilla A., a domestic servant, aced 29, was admitted into Mr. Erichsen's female ward on October 12, 1870, with history:—She had always enjoyed good health, and had no hereditary teudency to the formation of tumours, but duping the last six years ahe had noticed a gradually increasing lump in front of and node the left car. This had lately assumed a more rapid growth, but was even now hardly at all painful size of a large walnut in the left paroid treyion. The overring akin was tightly stretched, but not adherent, and the tumour was freely morable over the parts beneath. It was smooth and even on the surface, and had a firm and somewhat clastic consistence. There was no enlargement of the lymphatic glands, and Mr. Erichsen, considering it a cartinigations growth, by a single incision, the mass being loosely encapsuled, and turning out easily without any bleeding. The tumour removed was nearly spherical, measuring an inch in diameter, of an opaque yellowish colour, sud yielding no juice on eraping. This sections from moresle hardened in alcohol showed, inner parts, the following singular structure:—The field of the connective tienas type, spindle, or more frequently irrequity branching, the delicate branches forming a flurillar network prevailing the tumour. But here and there, in varying proportions, single or many cells were met with, having all the characters of well-marked cartilage cells, with round or other here, in varying proportions, single or many cells were met with, having all the characters of well-marked cartilage cells, with round or all nucleus, cell wall, and large outer capsule. Such as cell would accurrended on all sides by the branching fifter-cells suggestive of myzona tissue, and in no place were the cartilage cells, with round or parts and the connective tiems and all sides by the branching fifter-cells suggestive of myzona tissue, and in no place were the cartilage cells, with round or conditions. After the operation, the patient made good progress, the wound beaking rapidly by granulati

although its only interest lies in its microsopieal artucture. Mr. Marcus Beck, the Surgical Registrar to the Hospital, sindly informed use of the results of his minute examination, and as such a combination of myzoms and cartilage has been seldom described (although probably existing to a greater or less extent in most of the soft enchondromats of the parcial and elsewhere) we think it well to put it on record. A very similar specimen was described all illustrated in the volume of the Parlogical Society of Tools and published account of the curious manner in which the two tissues may be arranged in the same morbid growth.

EPITHELIOMA OF CHEEK-REMOVAL OF GROWTH
-RECOVERY.

(Under the care of Mr. ERICHSEN.)

Caroline M., aged 50, a healthy married woman, and free from any constitutional or hereditary taint, was admitted into this Hospital under the care of Mr. Érichsen, on July 12, 1870, with a swelling in the right cheek. Five months before, she had noticed a lump in this position, and it has since gradually increased in size, and at the same time become both tender and painful, with occasional shooting pains in the side of the head, and general swelling of the cheek.

On admission, the dresser, Mr. Pellereau, made the following mote:—The patient is a full-faced, florid, and healthy looking woman. On examination, the face is seen to be clearly fuller woman. On examination, the face is seen to be clearly fuller on the right side, and on putting the finger into the mouth a hardish mass is felt opposite the bicuspid and first molar tooth of the upper jaw on the right ide. It seems to be attached nightly to the gum and the alreolar border, but to belong chiefly to the check. The muccous membrane over it is pale in sedour, and puckered almost like an old sear of an uter, but all the control of the property of the control of the cont sound. Mr. Erichsen, on examining it, pronounced it to be an epithelioma springing from the submucous tissue of the cheek, and becoming attached to the gum and upper jawbone. There was no implication of lymphatic glands.

On July 14, Mr. Erichsen removed the growth, the patient

being under chloroform. Ho first made an incision from the being under chloroform. He first made an incision from the angle of the mouth nearly to the malar bone, and turned up the flap of the check. He then removed the growth from the flap, taking the gam with it, and finally scraped the alveolar border with a gouge at the spot where the tamour affected the gam. The wound was brought together with three hardly pins and some silver sutures, the bleeding being arrested by torsion and by the bins. Six days become torsion and by the pins. Six days later the wound was all but healed, and the woman left the Hospital well on July 25.

Microscopically, the tumour presented the ordinary characters of squamous epithelioms in this position, well-marked epithelial

globes being unusually numerous.

THE MIDDLESEX HOSPITAL.

CASES OF LITHOTOMY.

(Under the care of Mr. HULKE.) Oxalate of Lime Calculus in a Boy-Lateral Lithotomy-Recovery.

Obstact of Line Cattains in a copy and A very stunted boy, aged 13, but looking much younger, was admitted into Percy Ward, April 19, 1869, with symptoms of stone in the bladder dating from early childhood. His foreakin was very long, red, and excoriated by being constantly same was very tong, red, and excentated by being constantly pulled. He had great pain in the lower part of the belly. The wine was thick, and sometimes bloody. It contained much exalate of line, with bladder epithelium and pus. A large rough stone was detected. An orge-shaped, tuberculated, exalate of line stone, weighing 212 orania and measurements. rough stone was detected. An egg-shaped, tuberculated, exalate of lime stone, weighing 212 grains, and neasuring 1.3 by 9 inch in its long and abort diameters, was removed by lateral lithotomy on May 4. By the end of the month the wound had quite healed, and he left the Hospital a few days later, convalescent.

Lithic Acid Calculus in a Boy-Lateral Lithotomy-Recovery. A bronzed, healthy-looking child, aged 4, was admitted into Percy Ward, May 29, 1868, with symptoms of stone in the bladder of four months' duration. His foreskin was long, from being pulled. Before and after micturition he was in great pain, clutching his penis, and bending forward till he great pain, eintening ans penns, and bending as want that was almost doubled. A rather rough stone was at once felt on sounding him. Lateral lithotomy was performed, and the stone extracted with the scoop. It was an eval, lithic acid stone, half an inch long, and weighing, when dried, 20 grains. During the next two days he was frequently sick, and he threw up two large round worms, and voided four others per anum. e urine began to flow per urethram at the end of a week, and at the end of three weeks all of it escaped through this channel.

The incision was not quite healed at the end of another week. cicatrisation having been retarded by an attack of diarrhosa.

A Large Rough Stone-Stricture of Urethra-Lateral Lithotomy -Very Profuse Bleeding, necessitating several Ligatures and Plugging-Escape of Faces through Wound on the Twelfth and wing Days, but not after the Twenty-third Day-Recurrence f Rectal Fistula about Five Months afterwards.

of Rectal Fistula about rice months of the Middlesex A farm labourer, aged 50, was admitted into the Middlesex Hospital, April, 1870, with symptoms of stone in the urinary bladder dating from an attack of retention two years before. bladder dating from an attack of retention two years before. He had an uncontrollable impulse to micrurate every few less than the property of the property of

belly, in the end of the penis, and in the right loin. The urethra was very sensitive, and bled easily; its external orifice was puffy, and had almost a nevoid appearance. Owing was puny, and had almost a nevoid appearance. Owing to a stricture in the membranous part, a common-sized sound could not be passed; with a small one a large and rough stone was readily detected.

This condition of the urethra, the state of the bladder, the

size of the stone, its roughness, and the presumption that the hard oxalate of lime was one of its components being unfavourable for lithority, lateral lithotomy was performed on May 4, the stricture being first dilated with Holt's instrument to facilitate the introduction of a full-sized staff. A rough, flattened, oval stone, weighing 312 grains, and measuring 1.7 inch by 1.3 inch, was extracted. The bleeding was very opious, particularly from a large artery, nearly the size of a quill, near the upper end of the first and superficial incision. This was controlled by pressure until the stone was removed, and then tied. Six other vessels were also tied, and the hemorrhage was only finally stopped by tightly plugging the wound around a tube. So much blood was lost that he fainted, and could not be removed from the table till brandy had been given to him. On the following day the tube and the plug were removed without any fresh bleeding. On May 16, twelve were removed writtout any irrespondence. On May 10, twelve days after the operation, a little freeal matter was noticed in the wound, and again, between this date and the 20th, after which the perfect absence of any further escape of faces into the wound showed that the communication with the rectum had completely closed. Probably owing to the great loss of had completely closed. Proposity owing to the great loss of blood, his recovery was very protracted, and the wound, cicatris-ing very slowly. become fistalous. An attempt to keep the urinary fistula dry by the use of a Holt's indiarubber winged uninary necessary to the same patient a transportation of the same patient and the same patient and the same patient as a same patient as Hospital, and now complained that feecal matter passed from the bowel through the fistula, and a small opening was found in the anterior wall of the rectum. At this time he was unwilling to submit to any operative measures, and again went home, but he returned a second time, and the opening, under the application of the actual cautery, seems closing.

Oxalate of Lime Calculus in a Boy-Lateral Litholomy-Recovery. A boy, aged 7, residing at Amersham, Bucks, was admitted into Pepys Ward, under Mr. Hulke's care, August 16, 1870. The patient was plump and healthy-looking, and did not appear to suffer from pain on micturition, nor to void urine with undue frequency. The duration of symptoms of stone was uncertain, but the sound passed into the bladder easily detected a hard rough calculus. The urine was acid, free from albumen, with some excess of phosphates, and with a slight deposit containing abundant microscopic octahedra of oxalate of lime. On August 24, the ordinary lateral operation was performed, and a mulberry calculus removed.

During the week following the operation, the evening temperature in the axilla kept up to 100° Fahr., but no unfavourable symptom retarded a steady progress towards recovery, and he left the Hospital cured on September 27.

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POOR-LAW MEDICAL OFFICERS AS HEALTH OFFICERS

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Medical Times and Gazette.

SATURDAY, JANUARY 28, 1871.

POOR-LAW MEDICAL OFFICERS AS ASSISTANT OFFICERS OF HEALTH. No. I.

FROM what we can gather from recent declarations and opinions, expressed at meetings of the Poor-law Medical Officers' Association, it has by many of that body been considered desirable that they should be invested with preventive as well as curative functions. It is argued, especially, that, inasmuch as a large part of the preventible sickness and mortality in the country occurs in the class of persons with whom they have to do-that is, among the pauper class-they are the individuals, beyond all question, who are best cognisant of the sanitary condition of the lower classes; that, in the course of their duties, they enter daily the very haunts of dangerous disease; and that the local conditions which foster diseases are matters to them of daily observation. In many respects, this is true; and it must be a sore trouble to an Union Surgeon anxious to earry out his work effectively that his efforts are continually buffled by the unsanitary surroundings of his patients.

But they are not the only Medical men thus situated : precisely the same thing may be said of the out-door Medical officers of dispensaries in towns, and, indeed, in a less degree, of Medical men generally, practising among all classes of society. For, although it is admittedly among the poor chiefly that nuwholesome conditions favour the origin and spread of diseases, such conditions are operative also among the rich. A Health Officer's work is not confined to the habitations of the poor, by any means. He finds plenty to do-very much to amend-in the houses of the wealthy; and, indeed, it is the presence of unwholesome conditions in the latter that he has the greatest difficulty in arriving at. He rarely hears anything of their maladies, and only becomes aware of the existence of contagious diseases amongst them when death renders concealment no longer possible. With regard to the lower classes of the community, it is the duty of sanitary authorities to keep their dwellings under regular and systematic inspection and control.

The suggestion, however, is not that the Poor-law Surgeons should displace the Medical Officers of Health where such officers exist, or that they should be ex-officio Health Officers where such have not been hitherto appointed, but that it should be rendered a portion of their duty to act as Assistant Officers of Health, and that their annual stipend should be augmented, in consideration of this addition to their present duties. We

have been among the foremost to protest against the insdequate manner in which the services of the Poor-law Surgeon are requited, and we should hail with satisfaction the day when the arduous and disagreeable work they perform may be recognised as it ought to be. We think that the Association is acting in a spirited and manly way in demanding for their members higher social consideration than they now enjoy. The Poor-law Surgeon is the Surgeon and Physician of half the community, and the obligations of the country to him are scarcely admitted. In many cases, the stipend doled out to him grudgingly is not that of a respectable butler; and on all grounds it is worthy of full discussion whether the alteration suggested, which is calculated to improve his position in all ways, is one which is practicable, and, at the same time, desirable upon public grounds. Whether it is compatible with the private interests of a class of men who add private to public practice, is a question into which we need not enter.

LIBRA

Before anyone can be in a position advantageously to consider the suggestion that the Poor-law Officer shall also be an Assistant Officer of Health, it is necessary that a clear idea should be had of the functions and duties of a Health Officer, and of the amount and kind of assistance that he commonly requires. Let us, then, say a few words upon this subject first, and then we shall be prepared to inquire in what respects Medical assistants are requisite, and what functions they might exercise; what assistance they might render, which cannot be rendered so effectually or at all by non-Medical subordinates. Finally, we will inquire what special claims to such assistant offices the Union Surgeons can put forward.

Briefly we may enumerate the duties of a Medical Officer of Health as follows:--1. In his direct dealing with spreading diseases and others which are preventible, he has first to discover them and to ascertain their whereabouts, and that in an early stage of their progress; and next to put into operation the machinery provided by the law for their check. are duties thrown upon him having for their object the procuring of such wholesomeness in and about the habitations and in the food of the people as shall tend to hinder, if not the introduction of such diseases, yet their extension when introduced. It is his duty, also, to watch times and seasons, and to advise as to measures of precaution which may be appropriate to either. In districts of even moderate size, a Health Officer. cannot possibly carry on the work which these two functions embrace without assistance of some sort. His time would be frittered away in attending to details of sanitary administration-which, if they did not disgust, would weary-and none would remain for the due ordering of the general machinery upon which the efficacy of all sanitary work must rest, and to which, to be effectual, it must all be subordinate. Thus, to take first his duties in the presence of preventible disease, he requires assistance in the discovery of disease, and either directly or indirectly this assistance must be rendered by the Medical members of the community. He looks to them to declare to the best of their ability the nature of disease which proves fatal, and to give information of the occurrence of spreading diseases, which they alone are capable of distinguishing. Without this he could not take a single step towards their arrest; and it is to the honour of the Profession that in London, at any rate, Medical men have not been unmindful of this duty of good citizenship. He would be a sorry member of a liberal Profession who, to serve any private ends, or out of extravagant notions of his private rights, withheld from a Health Officer that which he knew he ought, in the interests of the whole community, to make him acquainted with. In the practical work of checking spreading diseases, accuracy and perfection of detail are everything. It must be well and thoroughly done if it is to be of any use at all; and the Health Officer must have the assistance of others on whom he can rely, either to do it or to see it done in the manner he desires. But, prior to this, it must be determined what is requisite to be done, and this is a task which cannot be delegated to another; all the reponsibility of this must rest upon himself. It is he, and no other, whose task it is to trace disease to its origin, the only help that others can give him being such as arises out of the communication of any special knowledge of the circumstances which they possess. And usually this is the most diffioutly part of a Health Officer's work; it is that which requires the tact, and almost instinct, which experience and devotion to sanitary science can alone furnish. It is this necessity which renders sanitary art, a speciality in Medicine.

The duties which devolve upon a Health Officer under the second head are multifarious and heterogeneous. Such are-the systematic investigation of the condition of the dwellings of the lower classes, independently of any cause arising out of invasion by disease; the inquiry into nuisances, some of trivial others of serious importance, when viewed in their relation to public health; the control of factories and workshops, both as regards the welfare of the persons employed in them and as regards the comfort of the neighbourhood; the regulation of places where animals are kept in any number, such as stables and cow-sheds, and of places where they are slaughtered; the regulation of bake-houses; the examination of food offered for sale, etc. Much of this work, too, demands a special kind of knowledge and special kind of study, and cannot be entrusted to a subordinate: such, for example, as the discrimination of the characters of un wholesome meat, the determination of the proper mode of abating trade nuisances, and of many questions of drainage and ventilation which border closely upon the domain of the engineer. Such matters a conscientious Health Officer will leave to no assistant of any kind. But assistance can be usefully rendered in that part of the work which is capable of being rendered a matter of routine. Such, especially, is the systematic inspection of dwellings, in which a skilled and instructed assistant may be used as the eyes of the Health Officer who cannot personally make the inspection himself. Such an assistant can also see that the amendments ordered are properly carried out.

To recapitulate the matters in which it is possible for assistance to be rendered to a Health Officer; they are-1. In the procuring information as to the outbreak and whereabouts of disease, and as to its prevalence, 2. In pointing out any special conditions which appear to be concerned in its origin or propagation. 3. In overlooking the performance of acts or works designed to check their extension. 4. In the details of ordinary and systematic inspection, so far as this can be rendered a matter of routine. But, beyond all this, good service might be rendered to the cause of public health were it possible through any educated officer to approach the poor with advice and instruction in the details of domestic management, especially in seasons of sickness, and in drawing the attention of the proper authorities to those causes of disease, such as destitution, with which a Health Officer can only deal in a very indirect manner.

UNPROFESSIONAL ADVERTISING.

SOME months since, when minute reports of the health of the Archbishop of Canterbury were being printed by one of our contemporaries, we took occasion to comment upon the gross impropriety of such a proceeding. We alluded distinctly to the gentleman who was in attendance on his Grace, and expressed our opinion that he would not be guiltly of a breach of Professional etiquette, such as that of supplying a public journal with particulars of the illness of a private patient, however illustrious. We concluded we were right in our conjecture, and thus the matter dropped. But the "system" of late has been carried to such an extent, and details have been made public of such a character, that to remain silent longer would be a dereliction of the day we owe to the public, but more particularly to the Profession. To speak out is the more necessary, inasmuch as the Daily Telegraph of Saturday last

has called public attention to the subject, and has denounced the "system" in a manner which we highly approve, and which we hesitate not to say will be approved by the Profession in general. Sensational paragraphs giving news "in indelicate detail" may suit the purpose of the journalist as a means of being quoted, and thereby advertised; and they may suit the purpose of some "obscure Practitioner," who is rejoiced to see his name in print as an "authority." But these paragraphs are outrages on public decency, are derogatory to us as a Profession, and in some instances, as we know, have been most painful to the friends and relations of patients whose cases have been gibbetted to the public gaze. In one remarkable instance that came to our knowledge, it was sought to ascertain, not only the complete history of the patient's case, but even, after death, a minute account of the autopsy. At first, the permission of some relative was obtained, but, on the subject being brought before the representative of the family, he positively forbade the publication of the particulars, as that proceeding would be most painful to the friends of the deceased, and could be effective of no public good. This was the case of one of the most illustrious Englishmen of the present century. The Telegraph justly states that breaches of Professional confidence are very rare amongst us, notwithstanding our occasional quarrels and jealousies. No breach of Professional confidence is viewed with more dislike than the one to which these remarks refer, and there is none which is so rare. Nay, there is one point which escaped the keen glance of our daily contemporary-viz., that some Practitioners carry this "etiquette" to the extent of suppressing the names of Hospital patients whose cases they publish in the Medical journals. Clearly, the name can be of no importance in such cases, whilst in the sensational paragraphs to which we are referring the names are the only important words in them. What does it signify to the public to be told that one illustrious patient is suffering from "renal" affection, and another from "imperfect digestion," or "nervous depression," or "incontinence of urine," etc.? The Profession, as a body, set their face against such indelicate disclosures. The Daily Telegraph, in condemning the system, has rendered a public service, and rescued the Profession in general from a serious "blot on its 'scutcheon."

THE NEW "AMBULANCE ANGLAISE" AT PARIS.

Ova readers will learn from a letter of Dr. Cormack's, which appears in another column, that an ambulance Aufolisis with 50 beds has been cetablished in the Rus of Aguesseau, and that a service of ambulance solanias, of which Dr. Cormack is chief officer, is sent to collect the wounded from the battle-field. This cetablishment is at the sole expense of one munificent Englishman, Mr. Richard Wallace, who, in addition to numberless private acts of charity, has already given £12,000 to establish an ambulance attached to the corps of General Visory, besides £1000 to the Cumit's Evangelique for the relief of sick and wounded soldiers. All this we heartily rejoice at; but we must protest against the peerish and unjust tone of a circular respecting this ambulance Aufplies, which has been issued to the outside world by batton monté, January 18, 1871. This circular avar—

"It is a remarkable fact that, while the humanity and generosity of most net tral nations has been variently represented during the past four months of the siege of Paris in a more or less conspicuous manner, there existed no publicly apparent manifestation of English sympathy until a few days ago, when an 'ambulance Angluise' was opened with fifty beds in the Rue d'Aguesseau."

What then, it may be asked, of Colonel Loyd-Lindsay and the National Society?

"Colonel Loyd-Lindsay," says the circular, "was allowed, some time ago, to enter Paris as the bearer of \$20,000 sterling, one-half of a sum collected in England for the French and Prussian sick and wounded. The manner in which this money was distributed gave unbrage to some who had taken a setive and efficient part in establishing routiney ambulances, while it failed to attract public attention in such a way as to counteract an unfortunately prevalent opinion, that, at least in respect of the present war, all the sympathies of England are with the reductless enemies of France."

And this document winds np by saying of the ambulance, that it will show "nore palpably than has hitherto been apparent, that there are English hearts which tenderly feel for France in her present heroic struggle for national existence."

We suppose we must take this document as evidence that hunger, fatigue, and fear will sour the kindest hearts, and twist the clearest understandings. The way in which Colonel Lovd-Lindsay's donation is spoken of, would lead one to supposefirst, that the sum of twice £20,000 was all that had been collected in England for the sick and wounded; and, secondly, that Colonel Lindsay was responsible for the "umbrages" and miserable bickerings amongst the French voluntary and official promoters of ambulances. It would cast a doubt, too, upon the reality of the sentiments of most painful distress with which the English have regarded the sufferings of the French army and population. The war was none of our making. When it broke out, we resolved to tender such succour as was possible to the sick and wounded of both sides slike. The National Society has collected and expended impartially in this work nearly £300,000. Those whose affinities are German, contributed largely to funds for the German armies; but since the disaster of Sedan and the horrors of Bazeilles, there is no form of evil which the French have suffered for which some special fund is not established. There is one association for relieving the French peasantry; another for giving seed to the French farmers; another for the special relief of distress around Versailles: Mesars, Piesse and Lubin collect money: the Daily News collects; the Quakers collect; Archbishop Manning and the Societe Evangelique (so-called) vio with each other in the work; the Marchioness of Lothian heads an association for relieving French refugees. As the Medical Times and Gazette is read by many of our confreres in Paris who do not see the columns of charitable advertisements in the Times, we beg them to accept our assurance that the idea that the English do not feel for the French people is a mere delusion engendered by despondency and sickness at heart,

THE WEEK.

THE WEEK.

Tru deliberations of the Sub-Committee appointed by the Royal Colleges of Physicians and Surgeous, and by the Apothecaries' Society, are understood to be attisfactorily tending towards the desired cnd—a fair, and equitable, and practical scheme for the formation of a conjoint Board of Examiners. The Sub-Committee met on Monday, and we hear that considerable progress has been made in the work entrusted to them.

It is understood that Mr. Quain has declined to be nominated for the Presidency of the Royal Medical and Chirupgical Society, on the ground that the duties of the office, in addition to those of Membership of the General Medical Conneil, and of the Council of the Royal College of Surgeons, will make too large demands on his time. This decision will, we are sure, be received with general regret by the Fellows. Amongst the senior Surgical Fellows of the Society are, in the order of seniority, Mr. Curling, Mr. Faget, and Sir William Fergusson. The Society can hardly do wrong, therefore, in the choice of its next Surgical President.

Mr. Campbell De Morgan's address to the Medical Teachers' Association, which we publish in another column, brings before the teachers of Medicine several important subjects in a new light. The subject of the address is the New Educational Regulations issued by the Royal College of Surgeons. Mr. De Morgan is a man who thinks for himself, and his opinions are not always the prevalent ones. For instance, he tells his hearers plainly that, although the advances of physiology have made it necessary to separate that science from anatomy as a branch of study, and to teach it apart, the result has been anything but an unmixed benefit. The old lecturer on anatomy and physiology, who got through both subjects in a winter session, attracted large numbers of students, who really learned something of both. Now, anatomy is taught with French minuteness: function is divorced from structure : the smallest detail is made of equal importance with the greatest fact, and as a result the anatomy lecture is, generally speaking, one of the most wearisome hours that the student spends. Mr. Campbell De Morgan is not afraid of being called heretical when he asserts that the most minute teaching of anatomy, and the most extensive and experimental teaching of physiology, admirably successful as they may be in educating the few, are not the most advantageous for the many; and with reference to physiology as a basis of practice, he is not ashamed to confess that he prefers rational empiricism to practice founded on half truth. That there is another side to these arguments, he would himself probably be the first to admit, but that there is some truth in his views it is impossible to deny. There are teachers of Medical science in London who simply lecture over the heads of the greater number of the young men whom they address, with the result that the majority of their papils know no more at the end of their course of the particular subject they teach than they did at the beginning.

We publish in another column a letter from Dr. Waters, of Chester, in defence of direct representation of the Profession in the Medical Council. It will be at once seen that Dr. Waters offers no reply to two of the arguments which have been frequently urged in these columns. The first is, that no machinery exists for carrying on an election, and that such machinery is expensive, and that there are grave objections to the expense being met either by the public or by the Profession. This, however, is not the main objection. The second is hinted at in the last paragraph of Dr. Waters's letter, in which he says: -" The British Medical Association, by its plan of direct representation, desires to obviate these anomalies by giving every registered Practitioner one vote, and maintains that, as at present with the University of Cambridge, the best men will be elected." Our objection is that the best men will not be elected, that the best men will not come forward, and that, if they did, very likely they would not be returned. The men from whom the electors of the University of Cambridge could select their representative may almost be counted on one's fingers. The election is conducted, we believe, without any expense being incurred by the candidate, and all the machinery for it exists. The position of the graduates of the University of Cambridge and the great Medical Profession is simply unlike in every particular. There can, therefore, be no analogy between them, The University of Cambridge could hardly return an nnfit representative. The Medical Profession might easily return a man with the least knowledge of its wants, the smallest success in the prosecution of its art and science, the weakest claims as a Physician or Snrgeon, but the largest amount of selfconfident vanity, and the longest balance at his banker's. Is it conceivable that men of the stamp of Brodie or Watson would offer themselves as candidates?

The Medical Officer of the Privy Council has instituted an inquiry into the present epidemic of small pox in the metropolis, which has resulted in his laying the blame at the doors of the Metropolitan Boards of Guardians. He finds that, after by any of the Metropolitan Boards (xeept by the Boards of Poplar and St. Luke's. In March last, when the epidemic was threatening, Dr. Seaton, the Superintending Inspector of Vacination, visited each Board, and advised them as to their duties. None of the Boards, however, with the two exceptions annead, bestirred themselves until the epidemic had fully set

THE WEEK. in. The guardians of St. George's, Hanover-square, are said

not yet to have made the necessary appointments under the

Last week there were 188 deaths from small-pox, and 68 from scarlet fever. The mortality from small-pox showed an increase of 53 above that of the previous week. Five died in the Small-pox Hospital at Islington, and 17 in the Hospital at Hampstead. These latter being credited to the districts from which they were admitted, the deaths are distributed as follows:-72 belonged to the east group of districts, 40 to the west, 30 to the north, 29 to the south, and 17 to the central

"A Blologist" has sent to the Times a criticism on Professor Tyndall's recent lecture on water, which so pointedly appeals to the common sense and common experience of mankind, scientific and non-scientific, in the matter that we cannot refrain from extracting some portions of it. "A Biologist"

" His (Professor Tyndall's) argument assumes the proposition that water, chemically and physically pure, is best adapted for the use of man, and concludes from it that it is therefore desirable to take whatever means may be necessary in order to obtain such water, or the nearest possible approximation to it. forms such wast, or the nearest possible approximation to it. The proposition itself is, so far as I can judge, not proven. Mankind (if we except philosophers), and Nature herself, do not commonly deal with chemically pure substances. Chemically pure air-air that is without a trace of ammonia, carbonic arid, or water is not to be found; and the one thing certain about it is, that if it were we could not live in it.

"The votaries of strict science seem sometimes to lose sight of the correlation which subsists between the inorganic and organic worlds; to ferget that man, like other animals, is suited to his dwelling-place; and to think, consequently, that he must submit the world to a series of severe chemical operations before it is fit for him to live in. As regards the present matter, every sunbeam which enters a darkened room shows us how thick with solid impurities is the air we breathe, yet we do not on that account fear to breathe it. Professor Tyndall has now shown us that the same thing happens in the case of water, but this need not necessarily make us afraid to drink it. Not all foreign matters, nor even all foreign organic matters, are of necessity mawholesome. What we really know now is exactly what we knew before-viz., that it is the defilements arising from man himself which are really dangerous, and that we should do better to employ our energies in keeping these completely away from our natural sources of supply than in looking out for new on h.

Dr. William McCormac has been elected a Fellow of the Royal College of Surgeons of England. Dr. McCormac is a Pollow of the Royal College of Surgeons of Ireland by examination, and is a Member of the English College. This is the first instance of a Fellow of the Irish College being elected ad sundem a Fellow of the College of Surgeons of England. We are glad that such an honour should have been first bestowed on so distinguished a Surgeon and operator as Dr. William McCormac.

At a General Court of the Governors of St. Thomas's Hospital, held on Thursday last, Mr. Sydney Jones was unanimonsly elected Surgeon to the Hospital in the vacancy occasioned by the retirement of Mr. Solly. Mr. Croft becomes the Senior Assistant-Surgeon, and will no longer reside at the Hospital.

Sir R. Murchison has again received news of Dr. Livingstone. It appears that he has undertaken an extensive journey to the west of Lake Tanganyika, and this accounts for the long-continued absence of all information respecting him. The scientific world will be glad, not only that Dr. Livingstone has been again heard of, but that Sir R. Murchison has sufficiently recovered to communicate the news.

MEDICAL ASPECTS OF THE WAR.

Ar the last meeting of the Middlesex Hespital Medical Society, Dr. John Murray read a paper "On some of the Medical

Aspects of the Franco-Prussian War," in which he gave an outline of the history and present state of the Geneva Convention and Red Cross Societies. From the unfavourable accounts given by competent observers at the seat of war, and from what he had himself observed while attached to the British Aid Society, he had come to the conclusion that, unless radical changes were adopted, the Geneva Convention would be doomed. To be really effective, the aid societies' officials in the field must be placed, with their material, under the immediate orders of the authorities of one or other of the combatant armies, and not allowed to go hither and thither whenever and wherever they listed. A wholesome check on the authorities at the seat of war would be afforded by the withholding of supplies from home in case of any differences arising. Dr. Murray then proceeded shortly to touch upon his experiences at Sedan. He referred to the necessity of sending the wounded to a distance to prevent the terrible effects of over-crowding amongst them, and the ravages of pysmia which occurred at Sedan, used as carbolic acid was to saturation. He was not prepared to say, however, that the excessive use of carbolic acid in the wet form did not produce toxicological symptoms in numberless instances, and pave the way to an attack of the disease it was intended to prevent. The popularity of marine lint (picked oakum) was however. fully deserved. Conservative Surgery proved in most hands a failure. Comparatively limited though his experience was, he was unable to perceive wherein the special knowledge, so constantly thrust forward by military Surgeons, lay in the treatment of gunshot wounds. Common principles and common sense adequately represented any such specialism.

PROFESSOR BENNETT ON THE ABUSE OF MERCURY BY ARMY MEDICAL OFFICERS.

AT a late meeting of the Medico-Chirurgical Society of Edinburgh, Professor Bennett, in a paper on hepatic abscess, quoted the case of a soldier who, having been discharged from the army as an invalid, on account of enlargement of the liver contracted in India, had come under his care. The man was in an exceedingly unhealthy state, and suffered besides from culargement of the spleen and from tubercular disease of the lungs. He informed Dr. Bennett that while in India he had been four times salivated for the hepatic affection. On the authority of this ex parte evidence, Dr. Bennett, adopting the phraseology of a late rather eccentric Medical agitator, well known as a disbeliever in the existence of syphilis, stated his opinion that thousands of soldiers are annually invalided and hundreds lose their lives in consequence of the abuse of mercury by army Medical officers. We need hardly remind our readers that this statement was completely refuted by the evidence given before the Royal Commission on Syphilis, over which Mr. Skey presided.

It so happened that Dr. Rutherford, C.B., Deputy Inspector-General of Hospitals, and principal Medical officer at Edinburgh, was present at the meeting, and he at once disputed the truth of Dr. Bennett's general charge against the Professional skill of his brother Medical officers, and expressed his strong doubts as to the accuracy of the information on which it was in this particular instance founded. On the 18th inst., Dr. Rutherford read a paper in reply to Professor Bennett, and stated that, having made particular inquiries into the case referred to, he had found from the man's Medical history-sheet, and from documents received from Netley, that there was no evidence whatever of his having been placed under the influence of mercury at any time during his period of service; although, while at Netley, the olutment of the biniodide had been rubbed into the skin over liver and spleen, without, however, producing any constitutional effect. He had also had an interview with the man himself, in which he ascertained that on one occasion, some years ago, his mouth had been sore for a few days after the administration, through the mistake

of a native Hospital attendant, of some pills containing mercury, but, with that exception, he was not aware of having ever taken the drug. Dr. Rutherford, therefore, felt himself justified in calling upon Professor Bennett to retract his statement as to the abuse of mercury in this particular case, and to modify his sweeping charge to the same effect against the officers of the Army Medical Department generally.

Professor Bennett replied that the statement of the patient na as quoted by him had been made before his class, and take it down at the time by the clinical clerk; that Dr. Rutherford had not yet given him an opportunity of examining the official documents referred to; that he had no desire to make an injurious charge against army Medical officers, but he was still of opinion that in many instances soldiers were discharged from the service, and in others, lost their lives, in consequence of the injudicious use of mercury in the treatment of diseases of the liver.

It is not very long ago since Dr. Thomas Beatty, of Dublin. at a meeting of the British Medical Association, on the anthority of statements made by patients, without corroboration by or reference to their former Medical attendants, announced as the result of his experience that in many instances disastrous consequences ensue to military officers, and subsequently to their wives, from the army Surgeons, under whose care they had been, having neglected to employ mercury in the treatment of the early stages of syphilis. One statement is just as well founded as the other, but both assume importance when uttered by men of high Professional reputation. It would certainly conduce to the internal good feeling of our Profession, and to the respect in which we should all wish it to be held by those who come under our care, if all its members would bear in mind that the charity which "believeth all things" is the very same quality which "thinketh no evil," and if they would be more cautious than is the wont of some in founding on hearsay or exparts evidence charges against the skill of their Professional brethren.

DR. CORMACE ON THE SIRGE OF PARIS

The following letter has been received from Dr. John Rose Cormack by a friend in Edinburgh. It is dated, "Paris, Wednesday, January 11, 1871":—

"My dear M -, -The Germans have been bombarding us with savage barbarity since December 30; on one or two days they have taken it easy, as to-day for example, but, since they began, the number of shells thrown into Paris has been in-credibly enormous. Between ten last night and five this organic recidibly enormous. Between ten last night and five this morning, 4000 shells, it is estimated, fell on the left bank of the river, within the town. The museums in the Jardin dee Plantes have been much injured; the Hospitals of La Pitic and Val de Grâce and Bicêtre (the latter full of small-pox) have been The Hôpital des Enfants Malades was hit six times on Sunday. These Hospitals and many ambulances have had to be hurriedly evacuated to the extent of 8000 patients since Sunday. During this morning, when the firing calmed down, I went to review the damage in the Quartier Latin—whence all the world was flitting in hot haste-but after a short time the obuses began to come drooping down, so that I was glad to join others in a skeduddle. I have been in all the battles and sorties under Paris—some of them tremendous artillery sand softest under \(\frac{1}{2}\) are some of a soni transitions attractly encounters—but the most awful cannonale that I have yet heard was for an hour or two last night, when I was safe in bed in Ruo d'Agriesseau. The first of the enemy was terrific, but the guns, of enormous calibre, in the Bois de Boulogne batteries and adjoining bastions, with those of Valeries, gave We are not disforth a much louder and nearer thunder. heartened; and though most of the food has been eaten, and most of the fuel consumed in the cannon foundries, we have quite resolved to drive off the Germans, or massacre them in the streets of Paris; our spirit first became warlike, but this bombardment has driven us farther, and made us all mur-derously enraged. . . . I have my time and strength fully used in the ambulance service. For the first time, an ambu lance Anglaise rolante is to go out when the next sortie takes place. It will consist of three waggons under my direction. The entire expense of these carriages, and of a military Hospital to be ready to receive fifty patients on Monday, is to be borne by one rich Bugilahman, M. Wallace. Dr. Shrimpton, Herbert, and I, are to have the beds equally divided among us, and, in addition to the Hospital work. I am to have command and direction of the ambulance volente in the battles. I have been engaged in the field service from the first, besides having twenty beds. With the addition of sixteen now embatances Augistes, I hall have an Hospital service of thirty-air beds, a duty which is, with my velents pure of hard, life a saturns."

THE ALICE HOSPITAL AT DARMSTADT.

Trus model Hospital, which was at first erected by the English National Society for the Relief of the Sick and Wounded in War, and has since been adopted by the German Government, continues to fourish under the management of Dr. Maye, the director. Many of the patients were removed at Christmas, in order to make room for fresh arrivals from Versailles; but the severity of the weather and difficulty of transport prevented this scheme from being carried out. Dr. Maye, who has invented a very commodious litter, has been to Versailles, to arrange for the transport of the sick and wounded from Coveliu to Lagny—a distance where the railway is not available. As a proof that the services of our fellow-construymen in this war receive some recognition, we may add that Dr. Mayo was extremely well received at the Pramisin head quanters during his hasty visit, and had the honour of dining with the Crown Prince.

WATER-PIPES.

THE Times of Friday, the 20th inst., contained a leading article full of good advice and erroneous information on the subject of water-pipes. The advice may be summed up as being to the effect that water-pipes ought in all instances to be laid inside rather than outside the houses, and that, as far as possible, they should run close to the chimneys, in order to prevent the freezing of the water. The advice is first-rate, but the reason on which it is founded is entirely wrong-namely, that if the proper precautions be not taken the water will be certain to freeze in one point or other, and that with the thaw comes the bursting of the pipes. The writer must certainly have forgotten his early lessons in elementary physics, or he could hardly have lapsed into such an error. He ought to have remembered that it is the expansion of the water during the act of freezing which bursts the pipes, and that its escape on the re-establishment of the current is only the evidence of the damage. He could hardly have passed through the days of intelligent boyhood without having for himself tested the truth of this statement by the well-known experiment of exposing a bottle, full of water and tightly corked, for a night during severe frost, the result being that in the morning the buttle is found broken by the mass of ice contained in it, unless the cork has been driven out.

HOW MEAT IS PRESERVED.

"How Meat is Preserved," formed the subject of a paper at the Society of Artson Wednesday evening (January 18), and, if we may judge by the relish of some who stayed long to taste preserved meats, we should answer the question by the simple monosyllable "well." The paper read was by Mr. Richard Jones, and was a description of his method of cooking animal substances at a high temperature, in time connected with a vacuum, by which means, during the cooking, air and moisture are removed. As we gave a description of the method after Mr. Jones had exhibited it to the Association of Medical Officers of Health,(a) we need only add that the process appears undoubtedly successful, and is likely to be the process for the conveyance of cooked meats. The discussion on Mr. Jone's paper was less satisfactory. The irreposable "gernes," of course, had

(a) Medical Times and Gazette, 1670, vol. ii., p. 491.

poss ssion of time, and one flowing speaker delightfully mixed up parasites and germs in one common corps of disease-makers, and assumed the destruction of the whole by Mr. Jones's method. The method is, indeed, awful in respect to germs; it kills them by fervent heat, and then pumps them out! What can he who feels for the "poor germs" say to this harrowing practice, except that, as it succeeds, the end justifies even the means?

INFANT MORTALITY.

The following extract from the report of the Carlisle Dispensary for 1869, strongly corroborates the necessity of holding inquiry in cases of infants "found dead." It is high time some decisive measures should be taken to protect infant life;—

"Of the childrens' diseases, booping-cough numbers 88 cases, of which 6, 31 under 5 years of age, ended fatally; and measles counts 263, of which 23, all under 5 years of age, were fatal. "Under 5 years of age, and is a large proportion of the deaths of the Dispensary are to be found; much larger than ought to be, or would be, were it not for the melannoloty fat that the lives of infants are regarded with so heartless levity—nay, it is only too true, turble-sly searfied to vicious indulgences or to criminal malignity, which human agency can seldon bring to light. O'l 104 devids during the past year, more than a half tight, o'll off each during the past year, more than a half when the contraction of the cont

REGISTRATION OF DEATHS.

Da. Syzox, the Medical Officer of Health for Salford, read a paper before the Manchester Statistical Society on the "Comparative Mortality in Large Towns." The chief point of the author was to show that the plan of registration resorted to by the Registrar-General was open to grave and important Allacics. After referring to the dispute between the Registrar-General and Dr. Letheby, and refraining from entering into the discussion, he proceeds to show that the Registrar-General's reports are only approximations to the truth. We make the following extracts as indicating the method by which Dr. Syon thinks the comparative mortality of large towns might be very correctly regared:

"If we took that portion of the population only which is under five years, and compare the percentage the deaths bear to the births, the results for comparative purposes will not be far wrong. In Dr. Syson's opinion, in the end the infantile mortality will be found the trucst and best test of the sanitary state of a district; and in expressing this opinion he was only echoing the belief of Dr. Simon, Dr. Gairdner, and Mr. Sargent, all of whom are high authorities. That Dr. Syson's method of dealing with the birth- and death-rate was a correct one, as far as the first year is concerned, the Registrar-General had borne witness. The errors arising from immigration and emigration naturally increase with each additional year taken; but the great opponents of any birth-death-rate method admit that 'from infancy to 16 years are the ages least affected by migration of population.' The errors up to 5 years old will be due almost entirely to immigration. In those towns which, therefore, are increasing most rapidly, the deaths will bear a little greater proportion to the births than they would do were the population stationary. The mere proportion infantile deaths bear to adult deaths can convey no idea whatever as to the mortality among the infants themselves. All that can be learnt from such a comparison is the existence or otherwise of excessive adult mortality. Dr. Syson having heard that the Medical Officer of Health for Manchester had, for a long time past, been preparing some claborate statistics bearing on the comparative mortality of large towns, he (Dr. Syson) had abstained from drawing up any tables; but, to give an idea of the conparative salubrity of our large towns, he had drawn up, some months ago, a table, which gave the following results:—That, in each of the six years, 1863 to 1868, Manchester was losing

her infants, under one year old, at the rate of 12 per 1000 more than Preston, 34 more than Ashton, 33 more than Oldham, 47 more than Bolton, 26 more than Blackburn, 31 more than Salford, 9 more than Leeds, and 32 more than Birningham. Under five years old, it bet them at a far greater rate—thin, than 10 more than 10 more than 10 holton, 97 more than Blackburn, 58 more than Salford, 56 more than Leeds, and 68 more than Birningham.

Dr. Syson concluded his paper by the following :-

"As far as sanitary arrangements, excepting main severs, are concerned, Birningham is a long way behind Manchester and Salford. Back-to-back houses, cul-de-sae passages, and courts undrained and unpaced, are still the rule. Did Birningham meet with her deserts, her rate of mortality would be very high. Nature, however, had been kind to her. The meteorology of this district has a great deal to do with our death-rate. Knowing as we do the intimate relation as higher clients are the second of the second of the second of the court of th

SMALL-POX.

Ar an inquest held on the 18th inst. by Dr. Lankester, on the body of an infant, seven months old, who had died of smallpox, it was stated that, shortly after the child was taken ill, Dr. Rugg, who was called in to attend it, wrote to the Medical Officer of Health for Marylebone, asking that it should be removed to the Small-pex Hospital. The Inspector called at the house of the mother with a small quantity of disinfecting fluid, and said that the child could not then be taken into the Hospital, as the house was not ready. Four days afterwards he called again, and said that an order must first be obtained from the relieving officer. The order was applied for, but in the meantime the child died. Application was then made for the body to be removed to a public mortuary; but the relieving officer declined to receive it till he was furnished with a Medical certificate of the death. There were four persons living in the house at the time, and one of them, a young man, had to be removed to the Small-pox Hospital that night. The jury found that the child died of small-pox, and expressed an opinion that the child ought to have been removed, immediately on the breaking out of the disease, under the direction of the sanitary officer of the parish. They were also of opinion that at all events, the child ought to have been removed to the parish mortuary when dead.

SMALL-POX IN THE LONDON HOSPITALS.

Sixer our last notice, small-pox has broken out in another Hospital—the Middlews. The patient, a female, was admitted for ansmia, and some days after her admission was taken ill, and soon presented the characteristic eruption of the disease. On her way to the Hospital, she travelled in an omnibus, in which was a person having an eruption on her face resembling small-pox. Six days after her admission, the symptoms began, and on the ninth day the eruption made its appearance. She was sent to Hampetend, and the patients in the Hospital were vaccinated. This fact is worthy of the attention of omnibus travellers—the more so that an eminent Physician, availing himself of that mode of travelling, encountered exactly a similar case the other day. In this last instance, however, the diagnosis was made before the person entered the omnibus, and admission was refused.

At Charing-cross Hospital, although the disease has not broken out in the wards, in face of the difficulties which would attend isolation, owing to the construction of the building, the managing body have resolved to stop all visitors except to patients dangerously ill, and then only after being examined by the Resident Medical Officer. It was also resolved to exclude all out-patients suffering from the disease, as a single case admitted into a crowded room of sickly people is calculated to spread the disease far and wide. From the London Hospital we have received the following note, which we make haste to publish, the information on which we had reason to rely having proved fallacious:—

"Sir.—May I beg you occurred, in your next impression, a misstatement page 100 to correct, in your next impression paids free from small-pox for acms weeks, and the last case that occurred was sent, on December 27, to the Small-pox Hospital at Hampstead. We had remained quite free from the disease until last Saturday, when a man suffering from small-pox as abrought in a dying state to the Hospital. It was impossible to refuse him admission, which he only survived about ten pital to admit small-pox into the Hospital, and any case occurring in the Hospital will be sent away to Hampstead.

"I am, &c.,
"STEPHEN MACRENZIE, Resident Medical Officer.
"London Hospital, Whitechapel-road, E."

SMALL-POX HOSPITALS.

DR. HARDWICKE, the Paddington Medical Officer of Health, strongly condemns, in a report on the epidemic of small-pox, the system of erecting Hospitals at a long distance from the parishes affected, and recommends that every parish should have its own Hospital. Dr. Marson, Resident Physician of Highgate Small-pox Hospital, strongly supports Dr. Hardwicke's view. "I cannot," says the Doctor, "see the wisdom of erecting temporary Hospitals four miles off. Why not open a temporary Hospital on the spot where the patients are, instead of conveying them four miles through the heart of London ! I think a hundred small-pox patients together are quite enough, for we have tried the experiment." It was stated the other day at the Hampstead vestry that many of the patients arriving at the Hospital died within twenty-four hours of their arrival. The Hospital stands on a clay soil. From every part of London patients are brought, after a toilsome journey, and the drivers of the vehicles which have brought them frequently leave their vehicles standing close to a cab-stand whilst they refresh themselves in a neighbouring public-house. Is it any wonder that small-pox is spreading? If the Poor-law Board would only listen to Drs. Hardwicke and Marson, they would cease infecting perhaps a dozen persons for every one they take to the Hospital at Hampstead.

SMALL-POX IN AN OMNIBUS.

In the Times of Monday last is inserted a letter from a gentleman, who states that in coming from Upper Holloway on the previous Friday, in a "Favorite" omnibus, he observed a little girl, "bearing the appearance of receding small-pox, sitting snugly in the corner, under some shelter of her father. He communicated the fact to the conductor, and the man with his child were ejected from the vehicle. He was some miles from home, and he could not get a public conveyance. The writer of the letter then complains with some bitterness of the conduct of the anthorities of the Hospital in sending out patients at such a stage of the disease, "knowing perfectly well that they will get into the first cab or omnibus they meet." The remedy is clear enough. The Hospital, indeed every Hospital, should have proper conveyances for their patients, and not undo with one hand-as they are now doing-what they have done with the other.

COING TO THE WASH.

Is the midet of an epidemic of small-pox, next in importance to the protection of the healthy by vaccination, and the isolation and cure of the sick, is the disinfection of clothes and bed-room furniture which may have been exposed to infection. We may say that this is the most important of the three, for it is an undoubted fact that small-pox lurks in the old uncleansed bodding, blankets, and woollen clothes which are harboured without suspicion in even the most respectable houses. We all know the story of the Vicea of Wakefald's bride—how she chose a silk gown that should wear for years. Economical persons boast how long they can make a cost last, and when worn out it is too precious to be got rid of, and is stowed away for future possible use. But it is no breach of delicacy to say that some of these ancient habiliments may offend the sense of smell, and that they may be the lurking-places of some of those germs of infectious disease which at certain seasons are lit up into activity. Every prudent housekeeper will rout out and got rid of all useless cichting that cannot go to the wash.

PUBLIC VACCINATION IN LONDON.

At the last meeting of the Medical Officers of Health, Dr. Druitt in the chair, a most important discussion took place as to the present system of vaccination in London. The great question was whether it was most advisable to have one or two vaccination stations in a parish, or so greatly to increase their number that every properly-qualified Medical man should be in the position to act as public vaccinator if called upon to do so. As usual, there are two sides to the question. With a small number of vaccinators, a supply of lymph is more readily kept up than when they are multiplied, and arm-to-arm vaccination is thus more readily practised. On the other hand, it cannot be denied but that among the poorer and dirtier classes-exactly those most likely to be attacked in an epidemic -- there is a degree of carelessness which absolutely forbids them to take the trouble of attending any vaccination station at a distance, whereas, had they only to go to the nearest Practitioner, the tendency they have to call upon Medical men at odd times with slight ailments would induce them to call upon him to vaccinate their children. Then, again, it is considered right and proper by many that the Practitioner who brought the child into the world should also vaccinate it. Under the old plan, it was alleged that vaccination was often imperfect, that it gave rise to the idea of protection when there was no protection. The question comes to be, Is this imperfect protection better than none at all? It is urged by many that vaccination must be vaccination; like any other disease, it must either affect the system or leave it untouched. If so, vaccination, however imperfect the scars may be, must be better than no vaccination. It may not protect from smallpox, but it protects from fatal small-pox. Our own opinion is -1st. That all gratuitous vaccination at Hospitals, dispensaries, etc., should be abolished. 2ndly. That private Medical Practitioners should vaccinate all their patients who are able to remunerate them for the trouble of choosing a healthy "vaccinifer," and transferring the lymph from arm to arm. Practitioners ought to have every facility for selecting children at the public vaccinating stations. 3rdly. All who cannot pay well should be referred to the public vaccinator, who should have at least 300 children annually to vaccinate, and who should, if need be, go to the patients, if the patients will not come to him.

DISINFECTION OF CLOTHES.

It is a discredit to the local authorities of England, and another instance of the futility of permissive legislation, that disinfecting apparatus for public use have been set up in so few places during the four years since the Sanitary Act was passed. There is none in the parish of St. George, Hanover-square, and none at Kensington; but whilst the epidemic is raging, it is some comfort to know that the Kensington Vestry have begun to think about it. They say, in a truly vestrified spirit, in a late report, "Having regard to the importance of the entire subject, and to the necessity of proceeding with caution and deliberation your committee intend to bestow upon it a very careful consideration." They say, also, that "the Guardians of the parish intend, at an early date, to provide a suitable vehicle for the removal of fever cases." Meanwhile, how are the small-pox patients to travel? and how can their clothes be disinfected? As this question has been raised by more than one correspondent, we may say that elothes, bedding, etc., may be purified by Armfield's steam apparatus, at 11, Belgravestreet, S.W. And we may call attention to the notice of Messer. Fraser's disinfecting apparatus in another column.

NEW HOSPITAL FOR SMALL-POX-WRONG POSITION.

A CORRESPONDENT of the Daily Telegraph complains that a small-pox Hospital is just now being finished at Homerton, next door to the Homerton Schools.

"There are 600 children there, and several large buildings close to it. It is—to relieve the Shoreditch district, one of the worst neighbourhoods for small-pox—to be brought here to a closely packed locality, and a crowded neighbourhood of New Clapton on one side, and Hackney and South Hackney on the other. It is dreadful to think we shall have such a stat, malignant disease brought to our doors. I think all these things should be made public.

FROM ARROAD, -- PROFESSOR VON SIGMUND ON THE PREVENTION
OF SALIVATION -- PROFESSOR BILLROTH'S LETTERS FROM THE
SEAT OF WAR.

PROPESSOR VON SIGMUND, of the Vienna General Hospital, has recently published some papers in the Wiener Medicinische Wochenschrift, upon the "Prevention of Mercurial Salivation." A warm advocate for the employment of mercury in the treatment of syphilis, he quite agrees with those who do not regard the production of salivation as exercising any critical or beneficial effect. Among the immense number of patients who come under his care in the Hospital, stomatitis and salivation are of extremely rare occurrence, and, indeed, are never met with in an excessive degree, except in patients who have been already treated before being admitted. Nevertheless, he considers that the belief in the advantage of salivation is too prevalent, and that mercury is often so carelessly administered as regards its prevention, as to call for some observations on the matter. He gives a graphic sketch of the various stages which salivation passes through in producing its mischievous local effects, and passes on to its influence on the general nutrition. This it thoroughly disturbs, which is an important matter in regard to syphilis, seeing that in the subjects of this disease nutrition is already greatly enfeebled, if not altogether perverted. Mastication is rendered impossible, and saliva, which should pass into the stomach in aid of digestion, is discharged in large quantities, while its qualities are utterly changed by the mingling with it of pus, mucus, blood, and epithelium. Additional causes of general disturbance arise from the pain, sleeplessness, fever, and impeded respiration

which are so often present. It thus becomes the duty of the Practitioner to resort to all the preventive measures in his power which can be derived from exact observation of hygienic precautions, and careful attention to the condition of the mucous membrane of the mouth, throat, and nose. One of the most important rules to be observed during the administration of mercury, in order to obtain its beneficial effects, and ward off those of a contrary character, is to keep the patient in a warm temperature, not allowing this to be lower than 14" Reaumur (better still from 2° to 4° higher), and to avoid too sudden changes of this. The air that is respired should be kept as pure as possible, especially during sleeping hours. In Hospitals this must be carefully provided for, and in private practice we must energetically strive against the carclessness and prejudices we meet with on this point. Careful attention to the condition of the skin is also essential; and the more so, as, in the treatment by inunction (which is Professor von Sigmund's favourite mode of treatment), change of linen is prohibited. This, however, in the hygienic relation we are now considering, is essential. If a confirmed smoker, the patient may still be allowed his pipethat is, if he will engage to keep his mouth thoroughly cleansed. Great attention must be paid to the condition and local treatment of the mucous membrane by means of toothpowders and mouth-washes; and the Practitioner must not be content to merely prescribe suitable means, but must see with his own eyes that his orders are punctually and completely carried out. Such a proceeding is very troublesome at first, but, in the end, it will be found to be the only satisfactory one. When the mucous membrane is as yet intact, thorough cleansing three times a day should be enforced. For this, pure vegetable charcoal, chalk, or magnesia may be used by means of a soft brush, a piece of sponge, or dossil of linen; or washes may be employed every two hours, composed of two drachms of chlorate of potass to a pound of water, used at the temperature of the room. This cleansing should be especially performed just before going to sleep; and in the case of long sleepers it should be repeated in the night, for it is in such persons, who are often indolent and careless, that stomatitis most frequently occurs. When the teeth are decayed, they should be removed or stopped at the commencement of treatment, and good gold stopping will remain quite undisturbed if the patient keep his mouth clean. When the gums become loosened and swollen, astringents should be employed. Crude alum or tannin, in the proportion of a drachm to an ounce of chargoal or chalk, may be ordered, or tinctures of cinchona, rhatany, or kino, in the proportion of one or two drachms to a pint of water. When the gums are very loose, bleeding, and painful, the astringents should be applied by means of a pencil. a syringe, or an irrigator, at a temperature which proves agreeable to the patient-tincture of galls, rhatany, or cinchona being used. When the gums peel off, are necrosed at their edges, or exhibit diphtheritic ulcerations, carbolic acid (one part to eight of spirit of wine) is indicated, while, as a gargle or wash, from five to twenty grains may be added to a pound of water; chlorate of potash, three or four drachms to a pound, is also useful; and, as a substitute for these mixtures, tar or oleum cadinum may be applied from three to six times a day. When the throat and posterior nares are affected, some of the above washes in an undiluted state may be used by means of an irrigator. Professor vou Sigmund has no coufidence whatever in the utility of the various internal medicines that have been recommended as prophylactics.

So unexposted was the severe fighting at Weisenburg, that at first three was only the military Hospital, with forty beds, in readines. Others, however, were specifyl organised, and the inhabitants exhibited the utmost goodwill in contributing nearly all they had for the succour of the wounded. At first, indeed, owing to the block on the railways, nothing could be got from the depôts, and everything had to be begged or bought in the vicinity. Amidst all these energencies, Professor Billroth greatly admired the nursing as conducted by a branch of the Sistethood of All Saints, Strasburg; and Le singles out the two sisters Chemence and Gorgette as examples of the immense amount of good that may be done by intelligent and trained women.

"They were," he says, "the very soul and brain of the muring department, and a kind providence for the sick; and as for Sister Clemence, I am under the conviction that she notiber ate no relept, for, go into the wards when I would, by day or by night, there she was always in full activity. She knew not only how to place her patients in the easiest posiments, but, together with Sister Georgette, she was constantly engaged in conforting her patients, atudying their little peculiarities, finding out their favourite articles of food, and calming their safferings in the most heartfelt manner."

Weissenburg being on the frontier, it was at first much feared that it might again fall into the hands of the French, which would have been unfortunate for the numerous wounded patients; for, although the Genera Convention might protect them and their attendants, yet, seeing that the French were searedy able to provide for their combatants, they could have done little, indeed, towards the feeding and care of the wounded. There was no system organised in France for giving sid, either by volunteer societies or provincial depôts; and although the German newspapers were always grumbling at the want of organisation in these matters, the wounded were admirably tended to what they would have been had they fallen under the care of the French. We need not follow Profeesor Billroth in the details which he gives of the arrangements made at Weissenburg; but we may observe that he is no admirer of the tent Hospitals, of which we have heard so much of late. By whitewashing, cleansing the floors, good ventilation, and the disinfection of the privies, he says he had no difficulty in keeping the military Hospital in a good hygienic condition; and it is protty well agreed among military Surgeons that the advantages expected to be derived from tents have not been realised. During the war of 1866 he had ample opportunity of seeing them torn to shreds by the wind, soaked through by the rain, and soon abandoned by the wounded, the air under them soon becoming foul, especially when they were waterproof. At Weissenburg, not wishing to spend time in discussion, he allowed their uselessness to be shown by experience. After taking a considerable time to erect, the wounded were almost forced into them-regarding it, as they did, as a kind of punishment. As ill luck would have it, a storm of wind and rain came on the same evening, and in five minutes all the patients were wet to the skin, and, amidst their grouns and imprecations, had to be carried back again to

Invested with the office of Inspector of the Volunteer Reserve Hospitals, Professor Billroth soon had his hands full of work for September. At Mannheim he found an admirable organisation all ready, the Aid Society of that town having undertaken the care of the sick and wounded at its own cost, large as this was. It provided twelve temporary Hospitals, furnishing 600 beds for the wounded, and 782 for the sick; together, 1382 beds. An important adjunct was the Hospital set up at the railway station, under the care of Dr. Hoffmann, with assistants and nurses from Groningen. This was invaluable, for here the wounded and sick obtained temporary rest and attention before they resumed their journeys, or, if they were too bad to go on, were detained altogether. As the other Hospitals were situated at a considerable distance from the town, this one saved the sick who arrived at night, or in the midst of rain, from being at once carried to their destination. This transport, indeed, was a difficult matter at first, a badly wounded patient requiring the aid of eight men. It was, however, wonderfully facilitated by means of twelve barrows or waggonettes, which the Dutch Surgeons brought with them, and by the aid of which one attendant was able to transport a badly-wounded patient without suffering. Professor Billroth strongly recommends that at all large Etappen stations, a Hospital containing fifty bedsshould be creeted at the railway station. After the blowing up of the bridge between Kehl and Strasburg, the number of trains diverted to Mannheim was very large, but the inhabitants made every exertion they could to meet the wants of the wounded. Still they did not escape without their share of blame, when the somewhat overbearing Johanniters in charge of wounded found their trains delayed at the station owing to the enormous truffic on the line. With the exception of two, all the Hospitals were wooden sheds (barracken) run up for the occasion, varying in form and arrangement according to the localities they had to be adapted for. At a later period, when the wounded had diminished in number, numerous cases of dysentery were treated in them; and altogether, although not very sightly in appearance, they seem to have answered their purpose very well, and to have cost very little in their construction. We must refer our readers to Professor Billroth's letters for a detailed account of their structure. One of them, built on the American plan, was erected in a meadow at some distance from the town, its nine separate edifices resembling almost a small village. Sometimes fully one-half the patients were able to be carried into the open sir.

(To be continued.)

ST. THOMAS'S HOSPITAL

Ox Monday orening last, Henry Currey, Esq., read a paper, before a largely-attended meeting of the Royal Institute of British Architects, on the General Construction and the Details of the Arrangements of the New St. Thomas Hospital, of which he is the architect, and which is now steadily approaching completion under his superintendence.

The advisability of creeting, in a permanent form, vast piles of buildings intended for Hospital purposes, is a question on which considerable difference of opinion still exists among sanitarians, but to which a practical and decided reply in the affirmative has been given by the Governors of St. Thomas's Hospital. We have no desire to support the negative proposition, as, however great may be the advantages of Cottage Hospitals in villages or small towns, it must be admitted that large Hospitals are essential adjuncts of large cities during the stage of civilisation at which we have now arrived. Whether the further development of sanitary science is likely to increase the public health of large cities to such an extent as to render Hospitals comparatively unnecessary, or whether the resources of physical science will increase the means of intercommunication so as to render unuccessary the congregation in cities of immense numbers of human beings, and of the lower animals which contribute to their convenience and luxury, is a question with the solution of which we can feel only a very remote interest. But we cannot refrain from expressing some surprise that at the reading of Mr. Currey's paper-which, as the most recent exposition of modern ideas as to what the construction of a large Hospital should be, contained many subjects of great practical interest to Medical men generally-a greater number of them should not have attended. The presence, however, of Drs. Balfour, Massy, Crawford, and some other army Medical officers, of Mr. R. Brudenell Carter, and of our correspondent, saved the Profession from being entirely unrepresented.

Having given a short sketch of the early history of the Hospital, and of the causes which led to the change of site, Mr. Currey proceeded to describe the construction of the new building from its earliest stage. At the outset, much time and considerable expense were saved by carrying on the foundations simultaneously with the filling-up and levelling of the site on a strip of land partially reclaimed from the Thames, at the southern end of Westminster-bridge. This work was so thoroughly performed, that Mr. Currey had the gratification of stating that at no point throughout the vast building has there been any settlement of the foundation. The site had been unfavourably criticised on sanitary grounds, but Mr. Currey considered its alleged defects to be more than counterbalanced by its advantages, among which are its central position and the vicinity of the river-supposing, of course, the latter eventually to become clear of scwage. The large volume of comparatively cool and fresh air conveyed along the surface of the water will, in Mr. Currey's opinion, materially contribute towards the ventilation of the building ; the patients are also likely to benefit from the tranquillising effect of the quiet yet cheerful flow of the great water-highway past the building, the quadrangles, corridors, and flat roofs of which will afford excellent lounging ground for convalencents, while for the more weakly, in suitable weather, beds may be arranged in the open air.

With the nature, cost, and quantities of the various materials employed, we have, of course, but little to do. Suffice it to say that the sum expended on the Hospital proper will be about £650 pc bed, or on the total of 600 beds, £390,000—the cost per cubic foot being ninepenes. The school and museum buildings being included, the total cost will be about £170,000.

The walls of the wards and internal passages are coated with Parian over Portland coment. The employment of this nonabsorbent and perfectly smooth materials as suitable lining for Hospital walls is now well established, one of its chief advantages being the ease with which it can be thoroughly cleansed. The floors of the wards are of oak, the planks being most accurately adapted, and when polished and waxed they will be almost as thoroughly non-absorbent as the walls.

The ventilation of such a building is, of course, the problem of most interest to our Profession; and on this point alone, in the subsequent discussion, was any hesitation displayed in the expression of complete approval of all the sanitary arrangements. The cubic space for each patient will be ampl namely, 1800 feet—and the proportions of the wards are admirable. The natural lighting and ventilation of the wards are effected by opposite windows, opening up to the level of the ceiling, the upper sashes being arranged so as to open inwards when necessary; the lower sashes can be raised in the ordinary In each ward, according to size, are two or three manner. stoves, with open fire-places, arranged along the centre; there are also, in corresponding number, hot hearths, as they may be called, composed of coils of cast-iron pipes, for the circulabe caused, composed or couls or cast-run pipes, for the circumston of hot water, and covered with cast-iron perforated the external atmosphere, through metal tubes beneath the foor; a supply, obtained in the same way, circulates through the coils of hot-water pipes in the hot hearths before distribution to the wards. All the air so entering the wards in winter, when the stoves are at work, will be thus not only heated, but in a very dry state. The suitability of such a dry atmosphere in Hospital wards may be questioned. The flues of the stoves are surrounded, at a distance, by metal casings, thus forming a hot-air chamber of three or four inches, into which perforated mouldings in each ceiling open, and afford additional means of exit for impure air from the ward. To this arrangement it was objected by Dr. Balfour that, under certain cir-cumstances, a down-draft from the ward above might directly enter the lower ward, instead of the up-draft from the latter being carried away through the tube surrounding the smoke-flue. This method, however, of carrying off the impure air is only available in winter as an auxiliary to a much more extensive system through outlets at each end of the wards, opening both at the floor and at the ceiling into air-passages communicating with large central shafts, in which a high temperature will at all seasons be maintained, by the furnaces and chimneys of the boilers employed in circulating hot water for the baths and other requirements of the establishment. This, being to a great extent identical in principle with the system of ventila-tion in the Lariboisière Hospital in Paris, and involving the necessity of long horizontal flues, in which, however well placed, some angles are entirely unavoidable, appeared, in Dr. Massy's opinion, likely to be liable to the same practical difficulties and obstructions as had been encountered in the Laribonice. The fact appears to be that, in the present state of our knowledge on such subjects, no artificial system of ventila-tion of large buildings, and particularly Hospitals, yet exists in which some defect or excess does not in practical working develope itself.

Mr. Brudenell Carter passed a high eulogium on the building and its arrangements, the only defect which struck him being, that perhaps the supply of light to the operating theatres is hardly sufficient. Mr. Currey explained that, if more light be found necessary, there are several built-up window spaces, which can be opened, and the skylights also can be increase.

In the passage leading to each ward from the general corridor are the "sistens" room, a kitchen for preparing or warming drinks and extra articles of diet, a ward for special cases, and another small private room. At the opposite and are the lavatories and water-closets, the atmosphere of which is separated entirely from that of the wards by a passage, through which perfect cross-ventilation is obtained. Dust and refuse from the wards, and the saided lines, etc., are disposed of by being discharged down shoots with tightly-fitting trapdoors. There are, of course, hydraulic litts to the several wards, one set for raising patients and attendants, and another for foad and medicines.

The dead will be removed by an underground passage, first to the post-mortern room, and then to the mortrary. The arrangements of the latter are very complete, consisting of four separate compartments, constructed of highly-polished grey enamelled slate, with black border. The effect is appropriate, and in particularly good taste. A stinible waiting-room for friends is attached, and the outer door opens immediately into the street.

The educational portion is also on a most liberal scale, containing museum, library, three lecture theatres, reading-,

smoking-, and dressing-rooms, chemical laboratory, and dissecting-room. To the latter a well-fitted injection-room is attached. Everything has been done to make this noble Hospital efficient in every particular, and we cannot better conclude this

Everything has been done to make this noble Hospital efficient in every particular, and we cannot better conclude effiion to the man of the control of the control of the hope "that it may for ages to come be a benefit to the poor London, and a valuable means of instruction in the science and art of Medicine and Surgery."

MEDICAL TEACHERS' ASSOCIATION.

REPORT OF AN ADDRESS DELIVERED JANUARY 20, 1871, BY CAMPBELL DE MORGAN, F.R.S., Surgeon to, and Lecturer on Surgery at, Middlesex Hospital.

Gertmanns.—On taking the chair for the first time, the thought which is uppermost in my mind, as it assuredly is in yours, is the sad event which has deprived us of one of the most useful and scalous of our members—of a Fresident whose high character and attainments rendered him in every my a high character and attainments rendered him in every my a top the following the same time, confess that I accepted reluctantly a position hitherto filled by men so eminently qualified to establish and to advance the character and influence of the Association. I did not feel justified, however, in refusing, under the circumstances, an invitation so flatteringly made. But timigained your former Presidents, I yield to no one in the carried desire to promote our common object. Nor do I think that any one among us is more deeply impressed with the conviction of the usefulness of such an institution as this, if it confine itself strictly to list true and legitimate objects—the improvement of clustion, the effectively of the schools, and between them.

The two questions which it was intended should be brought forward this evening come within the scope of this definition. The one—that of the propriety of doing away, under certain conditions, with certificates of attendance on lectures—leads directly to the important subject, which has frequently cropped student of a fixed special mode of acquiring knowledge. This question, as you may remember, was referred back to the Council, and, on reconsideration, it was found that fresh information would be necessary before it could be again presented to a general meeting; and this information a committee search of the control of the severe domestic and we can only now sympathies deeply with the gentleman who was to introduce it on the occasion of the severe domestic the time to withdraw his motion.

Thus we might have been left to-night without occupation. But there was a subject which would of necessity have taken precedence of either of those which are for the time withdrawn. Does of the objects of our meeting is to hear and to discuss one another's views as to the best and most practicable mode of carrying out the regulations imposed on us by the Examining Boards. The effect of this is to harmonise, without transmelling, the actions of the schools.

The College of Surgeons has issued regulations, some of them novel in character, which must come into immediate or early operation, and which compel an enlarged area of action in the schools. The regulations are somewhat vague, perhaps intentionally so, and they must therefore be interpreted by the teachers. I think we may congratulate ourselves on the action of the College of Surgeons, for to a great extent most of the schools were in advance of the then regulations, and had voluntarily adopted modes of teaching which the new regulations only now render compulsory. We may congratulate tions only now render compulsory. We may congratulate the control of the compulsory of the computations of the control of the control

the practical study of subjects auxiliary to physiology, as histology, chemistry, and physics? The latter seems to be now the interpretation of the Conucil of the College, but

doubtless many schools are prepared to take the wider view. In connexion with this subject, I must claim your indulgence if I express opinions which I know are not shared by many of you, but which I have long entertained, and which time only strengthens. In the days which at a former meeting were alluded to as having produced lecturers on anatomy and phyannual to as naving produced rectarge on anatomy axes pay-siology, whose class-rooms were through by willing students, those subjects were united in one course not longer than the anatomy course in the present day. Then came in the teaching of French anatomy, as it was called, an attention to minute details, a lengthened description of each unimportant part with a minuteness which would be tedious in connexion with even the most important. Physiology-a science whose boundaries were rapidly enlarging—was necessarily dissociated from descriptive anatomy, which was thus deprived of what groun descriptive anatomy, which was this deprived of what gave it it by interpola charm. The dissociation was unavoidable; but has the result been unmixed good? Now, I speak from my own experience (having lectured on both subject), that one is apt to forget the object of our teaching, and the recep-tive powers of mind of the majority of our hearens. We address ourselves to the intelligent few, and as if these subjects were the end of their pursuit, and not mere steps towards it. Remembering that it is the general mass of future Practi-Remembering that it is the general mass of many tioners that we have to prepare, is it desirable to track physiology through all the widely extending channels which are now being explored? Should we not rather labour to fix in the minds of students the established facts of the science, and to rest content if we can fix them deeply and permanently?

Of course, we may be told that all scientific practice must

be derived from and have its foundations in physiology. But this, while received as an abstract proposition, must be acted this, while received as an abstract proposition, must be acted on with considerable reserve. All good practice will be con-our state of the proposition of the con-physiological truth? For the most part we know as yet but ittle of the force, the mechanism, or the mode of action at work in our organism. The truth of to-day is the error of to-morrow. Hambless, when a law is once established, we may base our practice upon it securely and unalterably. But how many laws are established? I think that, whatever our feeling may be, we do admit to ourselves that a rational emrecaing may so, we do admit to ourselves that a rational em-piricism is better than a rigid adherence to a practice founded on a half truth. If physiology were taught in our schools for the purpose of training physiologists simply, and not Practi-tioners of Medicine, then the case would be different. Do we not, in teaching up to the few exceptionally intelligent minds -which would work out the subject for themselves-shoot

beyond and above the ordinary majority.

I fear I shall be looked ou as heretical, and quite below the spirit of the age, if I put in a claim in abatement of over-minute anatomical teaching. I would say again, that if anatomy-of the bones, for example-is to be taught with the object of training comparative anatomists, minuteness cannot be carried too far. But the end should direct the means. Let the student dissect with the greatest possible care and minute-ness; it trains his hand and eye; but I doubt whether in the lecture-room anatomy could not be better taught (for the preparation of Medical men) if important practical points were dwelt on—over and over again, if you please—to the neglect of useless minutise, which serve as mere exercises of memory to the student, and which are forgotten in a short time, even by the teacher, and are never brought to bear on actual practice.

You will not, I am sure, think me so wanting in common sense as to ignore the all-importance of anatomy and physi-ology. My plea is for the better teaching and the more perma-nent retention of the true and necessary to the repression of the, as yet, hypothetical and uscless. Let us demand of those who seek the higher academical honours of the Profession such an amount of scientific knowledge as will justify their receiving a stamp of excellence. They can always find, by independent study, the means of satisfying our demands. But for those whose aim is more limited, let us be satisfied if we can instil into them a thorough knowledge of what is useful and practical. Under any circumstances, I am glad to think that the practical element in physiology is to be more cultivated.

In the case of practical Surgery, attention to which is now specially enforced under the new rules, we must all admit that the change is most excellent. But the question has been raised, whether it is necessary that the practical Surgery course should extend over six months—whether all that is embraced under this head might not be better studied in a three months' summer course. As operations on the dead body must form one element

of the course, the difficulty of procuring a sufficient number of subjects will create, perhaps, a formidable impediment to its being carried on in the winter.

There is another point which must be considered, and on which it would be well could the schools come to a general agreement. It is true that many of the subjects which the new regulations render compulsory have been taught in most of the schools in supplementary classes. For the most part these have been added on without the requirement of extra fees from the students who benefit by them. The necessary expenses under the new rules must be increased. Should there not be a corresponding increase in the fees? You may say that this, at least, is no question of improvement of education; but I have no doubt that if the emoluments of teachers are reduced to a minimum, and their work is increased to a maximum, teaching will be carried on in an nusatisfactory manner.

Such, amongst others, are the questions which will more than

occupy our time to-night. Whatever may be our view as to the application of the new regulations, we cannot but be glad that they all tend to enforce practical teaching, and are so far in advance of to entore practical teaching, and are so far in advance of the prevalent competitive examination system, which is, I believe, producing great injury to the minds of the rising generation. There is no doubt that the primary object of the teacher is to instil into the minds of the students as much knowledge as he can, and the new rules put fresh means and appliances into his hands. But it has always appeared to me that there is one, and that perhaps the main, branch of education which is in danger of being sacrificed in this attempt to instruct, and that is, teaching a student the uses and powers of his own mind. At the ordinary school he should be taught how to learn; at the special college he should shellid be tangth now to rearn; at the special courage in smooth tangth how to think and to reason. Our endeavour should be to induce him to try as far as possible to work out near tions for himself, rather than to explain everything to him. One problem worked out by independent thought would be more neeful to him than twenty of which he had learned be more neeful to him than twenty of which he had learned the demonstration by book. By such a process his mind will be rendered both more able and more willing to receive new truths and new ideas. Of course, any information given to an intelligent being will fructify; but while a truth imparted hundrefold. The opportunity for this mental training is now placed more within the reach of the teacher, and it will be for us to ntilise it. The task may be somewhat irk-some, but it will always be beneficial. If well carried out in the practical courses, the clinical teaching will be far more into the control of the course of the course of the mental courses, the clinical teaching will be far more into the course of the course of the course of the mental courses, the clinical teaching will be far more into the course of the course of the course of the mental courses and the course of the course of the course of the mental courses and the course of the course of the course of the mental courses of the course of the course of the course of the mental course of the course of the course of the course of the mental course of the course of the

I have said that we may congratulate ourselves on the establishment of the new regulations of the College of Surgeons; and I cannot help thinking that, whether admitted or not, the atrong and nuanimous opinion of so large a body of teachers as is enrolled in this Association has had some share in leading the College to frame them. It must have had the effect, at least, of satisfying the Conneil of the College that the rules would be cordially received and conscientiously acted upon by the teachers. And if this be so, have we not an answer to those who ask of what use is the Association? There is a doubt, perhaps, on the minds of some few who are of us and work with us; for it is said that we do not represent the work with us; for it is said that we do not represent the London schools. It is true, and it is a subject of regret-regret for our own sakes, as we are deprived of the advantage of gathering the opinions of men of experience—regret for their sakes who are not of us, inasmuch as they lose an opportunity of advancing an object of common interest to them and to na, of learning the opinions of men of equal experience with to as, of learning the opinions of men of equal experience with themselves on subjects which must engage their minds as an abject and the subject of the subject of the subject of should hold about from as, yet I do not see that our position is materially weakened thereby, or our usefulness diminished. We are not, and we do not aspire to be, a legislative body. We do not seek to enforce laws, even on achools affiliated to us. Our function is consultative, and our end is gained if we can obtain a concurrence of opinion on unsettled points on the part of so large a majority of the schools and teachers as belongs to our Association.

endeavours must tend in the education of future Practitioners.

And our Association has produced another beneficial effect And our Association has prounced another beneficial effect. Those who, like myself, have had experience in former years of the difficulty of obtaining anything like cohesion for any purpose amongst the London schools must be struck with the inclination displayed amongst us to merge individual interests in common benefit. Our rivalries may remain; but the frankness with which the various systems and opinions are explained and discussed shows that it is no mean or jealous rivalry which

and discussed shows that it is no mean or jealous rivalry which actuates us. For one, I may express my hope that the Association will continue, and will be a permanent benefit to what we may call the great metropolitan school. I have intentionally condensed the thoughts which have passed through my mind within the narrowest possible limits. Our time for discussion is short. Inexorable custom has obliged me bo occupy some part of it in expressing my own views: but in allowing as much an possible for the full consideration of the swiperts which will be brought before you, you distention of the swiperts which will be brought before you, you will agree with me in thinking that I have best discharged my duties as your President.

THE VACCINATION ACT.

(From the Law Times of January 21, 1871.)

A LETTER has been addressed to our contemporary the Times, in which it is stated that a difficulty has arisen in enforcing in whose it is search can a difficulty has brief in exproving in which it is search can be search to the search of the search can be search of the search of child into court that the magistrates might make an order for the vaccination. Among those so summoned was a gentleman who had been fined by the county bench on the first occasion 1s., and who, by his advocate, refused to produce his child, and denied the power of the magistrates to compel him to do The bench adjourned the case for a week, to consider the so. The bench adjourned the ease for a week, or consider the objection, and, at the next hearing, decided that they had no objection, and, at the next hearing, decided that they had no oujection, and, at the next nearing, decided that they had no power to compel the production of the child. The same objection having been raised in the other cases, the whole were dismissed. The borough magistrates took the same view of the law, and dismissed the cases before them also. "The comseadds the writer, "that those who pay a penalty of quence is,

20s. may afterwards set the authorities at defance."

Section 16 of the Act enacts as follows:—"The parent of every child born in England shall, within three months after the birth of such child, or where, by reason of the death, illness, absence, or inability of the parent, or other cause, any other person shall have the custody of such child, such person shall, within three months after receiving the custody of such child. within three mouths after receiving the custody of such child, take it or cause it to be taken to the public vaccinator, or canne it to be vaccinated by a Medical Practitioner." Then, by Section 29, it is provided that "every parent or person having the custody of a child, who shall neglect to take such child or cause it to be taken to be vaccinated, or, after vaccination, to be impected according to the provisions of the Act, and shall not render a reasonable excuse for his neglect, shall be guilty of an offence, and be liable to be proceeded against ammarily, and wone nonviction to nay a renalty not exceeding 20s." and upon conviction to pay a penalty not exceeding 20s."
Then, hy Section 31, it is provided "that if any Registrar, or any officer appointed by the gnardians to enforce the provisions of the Act, shall give information in writing to a Justice of the Peace that he has reason to believe that any child under the age of 14 years, being within the union or parish for which the informant acts, has not been vaccinated, and that he has given notice to the parent or person having the custody of the child, which notice has been disregarded. the custony of the cuit, which notice has been thregaries, the Justice may summor such parent to appear with the child before him, at a certain time or place, when, upon due examination, the Justice may order the child to be vaccinated within a certain time; and where default is made without reasonable cause, the parent or person so making default is liable to a penalty of 20s.

Now, there are obviously two cases calling for the enforce Now, there are obviously two eases calling for the enforcement of the Act. There is the primary liability of parents and others neglecting to have children under three months vaccinated. Where that neglect is proved, the penalty imposed by Section 29 may be inflicted. In the next place, if a child under I remains unvaccinated, the Justice may proceed as directed by Section 31.

Undoubtedly, under Section 29, the penalty can be inflicted but once; but is a similar construction to be put on Section 31? What is to prevent a Registrar from giving information re-peatedly to Justices? And can it be said that a conviction under Section 29 is a bar to proceedings under Section 31 ?

It is our opinion that a parent or other person may be convicted under Section 29, and again and again convicted and punished

under Section 31. The maxim, Nemo debet bis rexari pro sadem caused, does not apply to such a case. Each time that the notice of the Registrar is disregarded there is a fresh offence, and the punishment inflicted on the disregard of the second notice is not the same as the punishment inflicted for the first offence. To hold otherwise is simply to say that anyone who can pay 20s. may escape from the provisions of the Act altogether. The Vacciescape from the provisions of the Act altogether. The Vacci-nation Act, being a sanitary Act, was clearly intended to have a continuing operation, not for the infliction of penalties, but to enforce compliance with its directions, in order to stop the spread of contagion.

This was our view, independently of the recent case of Allen (appellant) r. Worthy (respondent), L. Rep. 52, B. 162; 21 L. T. Rep. (N. S.) 665, in which the Court of Queen's 21 L. 1. Rep. (8. 8.) 505, in which the court of educars Bench held that a parent, having been fined under Section 31, may be proceeded against from time to time so long as the child remains unvaccinated. See, also, remarks on that very case by Mr. Weightman, in his "Medical Practitioners' Legal Guide," entirely according with those expressed by ourselves.

ST. THOMAS'S HOSPITAL.

ATTEMPTED LEGAL PROCEEDINGS.

ALLEGED CASE OF AMPUTATION OF ARM FOR RECURBERT PIRROID TUMOUR WITHOUT CONSEST OF PATIENT

A SOLICITOR appeared before Mr. Ellison, at the Lambeth Police-court, on Saturday last, desiring to know if some proceedings could not be taken against a Surgeon at St. Thomas's Hospital, for amputating an arm without, as he alleged, the consent of the patient. The woman stated in Court that she did not even know the solicitor, and that she had not instructed him to proceed against the Surgeon in question. Mr. Ellison refused to proceed with the case. He was sorry to say he was quite aware of a system carried on at police-courts by some parties. He would not hold out the slightest facility for such sums as 5s. or 10s. to be wrung out of poor people without, in many instances, doing them the slightest benefit.

The facts of the case being of some interest, Mr. Churchill

has forwarded them to us for publication

S. A., aged 47, a washerwoman, was admitted to St. Thomas's Hospital, February 20, 1868, with a fibroid tumour, situated just between the insertion of the deltoid muscle and the bend of the elbow. She had noticed the tumour for forty years; but it had not troubled her until a twelvementh before her first

admission, being then about the size of a hazel-nut.

February 22, 1868.—The growth, about the size of a large February 22, 1868.—Ine growin, account and she hen's-egg, was removed, with the patient's consent, and she was dismissed cured a month after. The tumour was found to be connected with the fascia of the forearm. It was carefully dissected out, and the wound left to heal by granulation. After dissected out, and the wound tert to real by granulation. After careful microscopic examination, it was decided to class the tumour as belonging to the spindle-celled sarcoma type, with elements which prognosticated a probable recurrence. There was no glandular enlargement in the axilla. She was unable to resume her ordinary occupation as laundress, in consequence of a contraction of the biceps tendon and bicipital fascia of the forearm not permitting extension of the arm beyond a right angle.

November 28, 1869.—She was admitted with a recurrence of the growth in the cicatrix of the old wound. It had been the growth in the cleatry of the old wound. It had been growing for six months, and very rapidly of late, being about It was freely movable. The integument covering it was smooth and glazed, and mapped out by a dense plexus of venous capillaries, the main branches of which converged towards the old cicatrix. The tumour was uniformly oval and elastic, softer at the most dependant part, where it was growing most rapidly. There was marked surface heat about the tumour.

She left the Hospital, and returned in three weeks prepared to submit to whatever treatment was necessary, the tumour having-increased to double its former size in this short interval. The increased to double its former size in this short interval. The integument over it was illecrating. Her general health was not good. Her face was sallow, and she was anxious and depressed. She complained of stabbing pains in the tumour. The glands in the axilla were not enlarged. After consulta-The glands in the axills were not enlarged. After consutta-tion with his colleagues, Mr. Croft informed the patient that the colleagues of the colleagues of the colleagues of the page of a care, and Mr. Paget informed by the dot on my loop of a care, and Mr. Paget informed by the colleagues St. Bartholomew's Hospital. She was fully aware that that was the only proper treatment. Naturally, even at the last, she wished to have her arm preserved. Before going into operating theatre, Mr. Croft told her that if he could he would

save her arm, but that he did not expect to be able to do so."

December 29, 1869.—Two days after her re-admission, Mr.

Croft proceeded to amputate. Anterior and posterior flaps were obtained by transfixion at about the centre of the arm. Free torsion was used for the brachial artery without rupturing the middle coat, but the artery uncoiled itself and bled freely; the madue cost, but the arrecy unconstruct tests and note freely; the madue cost, but the arracy unconstruct tests are not a reason as a small mountain branches were secured by toxino. The disparence are made more and the stump dressed with carbolic said. She continued to progress favourably; the stump did not heal by primary union, for a large piece of collaint tissues sloughed inside, and was removed a week after the operation; a quantity of pus escaping at the same time from inner angle of flap. She suffered some pain in the stump, and required morphia draughts at night.

January 22, 1870.-No swelling, pain, or tenderness now about stump; firm union of flaps throughout, except at inner edge, where there is slight purulent oozing. General health much

improved.
She was dismissed cured on Fehruary 8, an artificial limb having been provided for her at the Hospital expense.

The growth presented much the same microscopic characters

as the one previously removed, but with a greater predominance of the fusiform-cell element.

HISTORY OF THE FIRST FRENCH VOLUN-TEER AMBULANCE.

By ONE OF THE SURGEONS, Now prisoner of War at Versailles.

(Continued from page 79.)

WHEN we arrived in Metz that afternoon, the city was full of excitement; everybody appeared at work preparing beds and mattresses for the wounded, which were fast coming in from the battle-field of Gravelotte. (The Emperor had left Metz the same morning; and the escape was a narrow one, for his escort same morning; and the escape was a narrow one, for his escort was fired upon by the enemy as he reached the road to Etaire. Ten minutes more, and his Majesty would have been obliged to return and become a prisoner with us in Metz.) Only a part of our ambulance was at the Hospital, the rost had left for the

Marshal Bazaine, in retreating from Borny, which lies east of Metz, had taken the Verdun road, due west, in order to unite with MacMahon or fall back in the direction of Paris; but when a little beyond the line of Gravelotte and Rezonville, he found himself headed off by a Prussian army 200,000 strong. It has been said that if Bazaine had pushed his advantages gained that day, he could have passed onward, and consequently would never have been shut up in Metz. It must not b forgotten, however, that the troops under him were fatigued, and pretty well used up; for the losses of the 16th amounted to near 10,000.

As soon as my little cargo of wounded had been taken charge of, and without stopping to feed either horses or ourselves, Mr. Boylan, my assistant, and I hurried off towards the field of battle. The roads were blocked up with baggage trains, of battle. The roads were blocked up with baggage trains, and wounded, so that the evening was pretty well advanced when we reached Rozerieulles, a hamlet this side of Gravelotte, where our amhulance had been established. We remained here until after midnight, dressing the wounded

brought in by our infirmiers.

ti si difficult, I have no doubt, to make known to the different regiments in action the place where their wounded should be sent to; but on this day there seemed to be a greater confusion than ever. Wounded such as could walk were seem straggling in every direction, looking for Surgical aid. One thing which especially struck my attention was the great number of men shot in the lower extremities. I should not be number of men shot in the lower extremities. I should not be surprised that, some day, when the satisficial records of this war will be complete, the proportion of such wounded will be the surprise of the surprise of the surprise of the The "chassepti" is an excellent arm, far superior to the needle-gun, but not, I venture to say, in the hands of French troops. The great amount of "shooting too high" during this war is due to nothing else than the gun in question, handled by an impetuous soldier. Give the same arm to the English or the German, who aims with more sang froid, and English of the terman, who aims with more sing prod, and the result will be different. I have known soldiers to shoot away 100 cartridges in an hour; such an one, I should say, has probably neither killed or wounded a single person. One of

the reasons why we have had so many wounded in the lower extremities, aside from the great calm with which the Prussians make fire, is, I imagine, the peculiar dress of the French. No finer mark in the world than the red pantaloons!

The battle of Gravelotte lost us two good infirmiers; one, mortally wounded while in the act of putting a French colonel on a stretcher; the other, missing altogether, probably killed

on the spot.

on the spot.

The French Intendance had taken measures, on that day or the day previous, to hold the Hospitals and other military buildings in readiness for the coming wounded, so that they all, after the villages of Maison-neuve, Moulins, and Longeville had been converted into ambulances and filled, could be sent to Metz.

In order to be able to follow the movements of the army, as it had been our intention to do from the commencement of the war, M. Lefort, on the following morning, gave our Hospital over into the hands of the Physicians of Metz, who had ex-pressed a willingness to take charge of the same. This gave general satisfaction to the members of our ambulance; everyody was in high glee, getting ready, when an officer from the Intendance came to tell us of quite a number of wounded left in the house and barns of a farm-yard called "La Ferme do

Moscow," close to Gravelotte.

The battle-field-of the 16th, namely-like that of the 14th, was again abandoned, and the army moving north, in the direction of St. Privat, thus exposing whatever wounded there may yet remain near and around Gravelotte to fall into the hands of the enemy, who, by-the-bye, never failed to occupy any territory evacuated by our troops. The Intendance—which in France (unfortunately for the Surgeon) controls every-thing appertaining to the sick and wounded—the Intendance, I repeat, came to ask us to look after the wounded in La Ferme de Moscow, saying our badge and uniform would protect us. A part of our Medical staff and twenty waggons were sent off; they returned the same night, bringing 172 wounded. From that time—or, at least, I believe that this mission did much towards it—the French army Surgeons and everything helonging to the Intendance received orders to wear the white band with the red cross. Another motive, perhaps, for the adoption of the band was the murder of a military Surgeon, who, on the previous day, and while in the discharge of his duties, was run through with a lance hy a Prussian Uhlan.

(To be continued)

REVIEWS.

Der Diabetes Mellitus auf Grundlage Zahlreichen Beobachtungen Dargestellt. Von Dr. J. SREGEN, Professor der Medicin an der Wiener Universität.

Diabetes Mellitus Expounded on the Basis of Numerous Observa-tions. By Dr. J. Sezoen, Professor of Medicine in the University of Vienna, etc. Leipsic: Weigel. Pp. 285.

Dr. Segoen's work is a valuable contribution to our knowledge of saccharine diabetes on more grounds than one, not the least that it contains careful records of 140 cases of the disease. This is not the author's first appearance as an authority on the subject, for from time to time he has communicated articles on it to the Wiener Wochenschrift and to Virchow's "Archiv."

on it to the Wiener Wochenserry! and to virchow's "Archiv.

The former portion of the book is divided into nine chapters, and is followed by the histories already alluded to. The first of these chapters deals with the Origin of Sugar in the System. Its existence in animals, as the result of a vegetable diet, could be understood; but its presence in those existing exclusively on flesh was more difficult of explanation. The discovery of the glycogenic function of the liver rendered matters more plain; for, were it excessive in amount, or were the ordinary machinery for its consumption insufficient, or were it to become sugar in arterial blood and in the urine, it could not fail to make arterial blood and in the urine, it could not fail to make tiself apparent. So, also, perhaps, if the quantity of sugar consumed as food wese unusually large, for in this way the quantity of post-mortem liver sugar is notably enhanced. The latter question is discussed in the next chapter, on the Nature of Disbetes. Here the author points out that there may be diabetes without glycounts, and glyc on ungar is the polyurar, but in diabetes nellitude. polyuria; but in diabetes mellitan the excess of sugar is the constant symptom, bringing with it, however, others in its train, the same constituting the disease. Pary has admitted that excess of stareh or sugar in food may make itself apparent in the urine; the question comes to be—Can there be protracted or permanent mellitaria without the symptoms of diabetes? Seegen says "No" most decidedly. And he also holds the existence of sugar in the system during life as a pathologic phenomenon. "Sugar secretion," says he, " is the result of an abnormal metamorphosis of material. Sugar exerction is the fundamental symptom of diabetes mellitus." So, again, after inquiring into the origin of this sugar in derangements of the bloodvessels or of the blood itself, or in lesions of the nervous system, he concludes, after citing physiological research—"We have also, on the ground of Medical experience, the right to say that the essence of diabetes mellitus consists in an abnormal metamorphosis of material, which, for the most part, is evoked by derangements of the nerve centres." But it is with the presence of sugar in of the herve centres. Due it is with the presence of sugar in the blood that the fatal train of symptoms begins—thirst, polyuria, general decay, loss of sexual power and vision, westing, etc. A curious and interesting inquiry concludes this chapter: it is the liability of corpulent people to diabetes.

If he does not prove corpulence to be a direct cause of diabetes. the author at least shows that it is by no means an uncommon precursor of that affection. Of the next chapter, which treats of the Etiology of the Disease, we shall only say that heredity has something to do with it, and antecedent brain disease or exhaustion perhaps more; but the most curious fact is, that of the 140 cases recorded, in thirty-six instances the patients were Jews. As to the sexes, 100 were males to forty females.

Of diabetes mellitus, Seegen recognises two forms—in this and polyuria are only temporarily notable. In the second variety, emaciation is speedy and well marked, the skin is dry; in short the symptoms are those universally recognised in inductors. These two forms have also, we should say, been recognised in this country. The succeeding chapter deals with the dymptoms of Diabetes—the existence of sugar in the urine, the diabetes. These two forms have also, we should say, been recognised in this country. The succeeding chapter deals with the dymptoms of Diabetes—the existence of sugar in the urine, third, the property of the control of the contr

At to the prognosis of the affection, in the severe form it is unfavourable. It must be founded on the following particulars: The quantity of sugar formed, the more the worse; the age of the patient, the younger the worse; and the degree nutrition is interfered with, the more the worse; the digestive powers, the greater the better; the social status of the patient, the richer the better. The mental condition of the patient should also be considered; dispression, which is common in the disease, being very prejudicial. We could hardly deal with the postbound of the patient of the patient of the patient of the worse of the patient of the patient of the patient of the worse of the patient of the patient of the patient of the worse of the patient of the patient of the patient of the the patients of the patient of the patient of the patient of the the patients at the patient of the patient of the patient of the the patients of the p

For the quantitative determination of sugar in urine, Seegen recommends either Pallings copper solution or the polariscope. The former we have for cordular commend, but we give this hint to those who only examine diabetic urine at intervals, that after standing for examine diabetic urine at intervals, that after standing for examine diabetic urine at intervals, that after standing for examine diabetic urine at intervals, that after standing for examine diabetic urine at intervals, that after standing for examine diabetic urine at unitervals.

The final chapter deals with the Dietetic and Medicinal Treatment of Diabetes. "Of these," says Seegm, the forms to the more important." To most people, it is nothing new that a fleah diet diminishes, as a saccharine or a starchy diet increases, the quantity of sugar passed by the patient. Further, this increase in the formation and excretion of sugar intensifies all the symptoms of the disease, especially the polyuria and the thirst, and turnher tends to derange the digestion. But as life thirst, and turnher tends to derange the digestion. But as life the distance of the disease, and as bread is madnife the distance of the disease, the distance of the distance

stances permitted and forbidden in food or drink as adapted for English use:—

English use:— from—diseed in say Gustity,—Flash of any kind:
Smoked monts, bacon, tengens. Fish of any kind: Oyders.
Smoked monts, bacon, tengens. Fish of any kind: Oyders.
Smoked monts, blosters. Any, sept., eggs, coviare, cesan,
butter, cheese, lard. Vegetables: Spinneh, cettain salada, as
endive, gherkins, asparagus, watercress, sorrel, artichokse
(green), mushrooma, nuta. Allexed in Moderate Quantity.
Cauliflower, turnips, white cabbago. French beans, orangen,
and almonds. Strongly Forbidden.—Starty food of any gind
(bread may be allowed in very moderate quantity by the
Hypsician's orders): Stegar, probase, sweet fruits (ospecially
grapes, cherrics, poaches, apricots, plums, and dried fruits of
any kind).

DRINK.—In any Ordinary Quantity.—Water, soda-water, tea, coffee. Wince: Clarct, Khine wine, Moselle—in point of fact, all wines not sweet, and not very rich in alcohol. In sery Small Quantity.—Milk, brandy, bitter beer, lemonade without sugar. Forbidem.—Champagne, mild ale, cider, weet lemonade, liqueurs, fruit-juice, ice and sherbet, cocca and chocolate, homemade wines.

The medicinal treatment recommended must next be considered.

Foremost in the rank of therapeutic agents, he places Carlabad water. This effects improvement, not only in the general symptoms—thirst, polyuria, etc.—but also, in most instances, a notable diminution in the quantity of sugar passed; the bodily weight increases, and there is often an increased tolerance of bonate of soch has been recommended by Grienisper, and both he and Pavy have found alkalies beneficial. As secondary agents, after the alkaline waters have been used for a time, Seegen recommends the feebly ferroginous waters of Schwalbach and St. Moritz, or the baths of Gastein and Raguz. He further alludes to the use of optum, of todine, and arsenic; its have maried of hydrogenity; but his trust is in the waters we have may make the surface where men and the surface water we have named.

Next comes the collection of cases already referred to, and this concludes one of the ablest and most chankuite treatises we have seen on the subject of diabetes. It is at all times difficult to handle with securacy, and to be perfectly informed on, the literature of another language. This difficulty has been overcome in a wonderful manuer, for references to French and English literature are very numerous and, let us add, very accurate.

NEW BOOKS, WITH SHORT CRITIQUES.

The Diseases of Children. By FLEETWOOD CHURCHLIA, M.D., Fellow and ex-President of the King and Queen's College of Physicians, Ireland, etc.; and FLEETWOOD CHURCHLIA, jun. F.K. & Q.C.P.I., Physician to the Dispensary for Sick Children, etc. 3rd Édition. Dublin Fannin. Pp. 900.

• • The present edition of Dr. Churchill's well-known work has been carefully revised and so much enlarged as to be hardly manageable, for, whilst the number of pages has been greatly increased, the size of each has remained unchanged. We are however, bound to confoss after a careful survey that the work knowledge, but within a book rather to be referred to than to be real straight through. The work is divided into two parts, the latter consisting of eight sections. The former part deals with the management of childhood and infancy, the latter with the diseases incident to that period of life. The eight sections refer in order to the following embjects —-Affections diseases of the heart, digestive organs, and dair, 'eruptive fevers, other fevers; and finally, infantile syphilis. It would be difficult to indicate all the points where special praise is due to the author. We would rather point to the book, as a whole, as affording a good instance of personal experience, amplified match by passing through the midd one theroughly acquainted with the subjects of which he treats in all their details.

The Food Journal. Vol. I. London. 1871.

*. We congratulate the editor of the new periodical on the completion of his first year's labours. The idea of bringing out "A Review of Social and Sanitary Economy, and Monthly Record of Food and Public Health" was a good one, and, on the whole, it has been well worked out. Many subjects which

must be interesting to a large class of readers are discussed in must be interesting to a large class of readers are discussed in a pleasant, popular style—as, for example, Food Legislation, Popular Food Analysis, Domestic Hygriene, Public Health, and Fordige, Office Reports on the Adulteration of Food; besides as "London Dinners," "How Foreigners Live in London," etc. The January number contains a very interesting letter by Mr. Yapp "On the Food in Besieged Paris," dated December 15, and transmitted by balloon poly Paris,"

PROVINCIAL CORRESPONDENCE.

LIVERPOOL.

January 24. WARRANTS were granted by the Liverpool magistrates, on Saturday last, for the commitment to prison for seven days of two householders who had not had their children vaccinated after having been previously summond and fined for neglecting to do so. This summary procedure will, it is to be hoped, serve as a caution to a great number of offenders. How general the neglect of vaccination has been is only becoming apparent now that the actual presence of epidemic small-pox is stimulating the authorities to investigation. On Thursday last. Dr. Trench stated to the Health Committee that he had last, Dr. Trench stated to the Health Committee that he had requested lodging-house inspectors and those under the in-spectors of nuisances, when engaged in their ordinary duties, to examine the children in the houses to which they went, for to examine the children in the houses to which they went, for the purpose of finding out whether they were vascinated or not, and that, although there had been only three days of such routine work, they had already reported 133 persons as not having been vaccinated at all, and 12 in whom vaccination was doubtful. The ages of these persons were not mentioned, and it may be that some of them were born before the enactments oncerning vaccination had their present stringency. Such plea cannot, however, be urged in the case of children born pies cannot, nower, be urged in the case of children born within the past few years. Yet Dr. Beard, who has been visiting this district in his capacity as inspector of vaccination, pointed ont a day or two since to the Guardians of the West Derby Union that there were the names of no less than 3000 children on the Registrar's book unaccounted for as regards

children on the tegretar's book unaccounted for as regards vaccination during the past three years. At the suggestion of the inspector, a house-to-house visita-tion has been undertaken in the West Derby district, and the two persons to whom this duty was assigned reported on Friday last that they had examined 1200 persons, of whom 32 had never been vaccinated; and that the same was the case with 3 out of 7 children whom they found suffering from small-pox. additional vaccination station is to be established, and the existing one at Everton is to be opened twice, instead of only

once, a week.

once, a week.

It is fairly probable that the rapid decline in the mortality
from small-pox during the past week has been due to the very
energetic measures taken by the Health Committee and the
various boards of guardians in isolation, cleansing, disinfection, etc. In the first week of the present year the numbers of fatal cases in London and Liverpool respectively were 79 and 50, whereas in the second week they were 135 in the former and only 35 in the latter place. But even this reduced number, however satisfactory it may be as indicating a decline in the epidemio, gives Liverpool a relative preponderance over London, which, if her population be reckoned at six times that of ours, should have had 210 fatal cases to our 35 in order to make the mortalities proportionate. During the past five weeks the mortalities have numbered 26, 38, 36, 50, and 35. Happilly, it is not in small-pox alone that the diminished mortality is manifesting itself, as there were 125 fewer deaths last week

manifesting itself, as there were 125 fewer deaths hast were than in the one immediately preceding, containing the serviced much attention, and numerous have been the theories of its cause and the suggestions for its cure from many quarters. The water supply, the water-closets, the sewers, the soil, the drunkenness, etc., have all been taxed individually, in not very reasonable fashion, with being the source of our present ill

A little consideration of the peculiarities which distinguish Liverpool ought, we think, to lessen the surprise which is so often expressed at its unhealthiness. There is probably not another town in the kingdom the particular character of whose another form in the singuous the particular character or whose trade attracts to it stything like so large a proportion of nn-skilled, and therefore poorly-paid, labour. There certainly is no other town with so densely-packed a poor population; and

though we have made no exact comparison, we should feel though we have made no exact comparison, we should feel quite safe in asserting that in no other are the relative numbers and trade of the public-houses so great. Poverty, overcrowding, drunkenness, dirt—for nobody will consider us libellous when we say that the lowest classes of the Liverpool poor are dirty we say that the lowest classes of the Liverpool poor are dirry to a most disgrating degree;—here we have the most faithful allies of disease; and until effectual means can be devised for diminishing these, we cannot see how this can be any other than an unhealthy town. We are told that, with our favour-able site, our randstone foundation, our good drainage-fall, our magnificent river, and our many other advantages, we ought to be pre-eminently blessed with health; and our critics do to be pre-eminently blessed with health; and our crities in ont see that a poverty-stricken, over-crowded, drunken, dirty population must be an unhealthy population anywhere, and that the peculiar circumstances of the town favour the permanent retention of such a population in its midst. It is not that we have more epidemics than other towns, but because no other has soil so peculiarly favourable to their growth, that we suffer so fearfully whenever one is planted among paper, reed a few weeks since by Mr. Newton, at the Medical Institution, on the weeks since by Mr. Newton, at the Medical Institution, on the whole weeks the sufficient of the sufficient of the sufficient particular than the sufficient of the sufficient of the sufficient particular than the sufficient of the sufficient of the sufficient particular than the sufficient of the sufficient of the sufficient particular than the sufficient of the sufficient of the sufficient particular than the sufficient of the sufficient of the sufficient of the control of the sufficient of the s

riety in sanitary matters was attributable to the permanent residence within it of immense numbers of the very lowest Irish, who, by their modes of life, persistently set at defiance all the laws of health, and constitute a standing menace to its well-being. With every proposition advanced in that paper we fully agree. Thousands of these men hang about our docks we ruly agree. I nousants of these men man soots our occss and other great centres of labour by day, and retire to sleep, with the family that invariably attaches to them, in some filthy, ill-ventilated room at night; and, when we consider that, from these thousands, the vision of a meal is often cruelly blown away by a veering of the wind from west to east, we cannot help feeling that poverty is almost a necessary condition of a great proportion of our people. We are not in the condi-tion of Manchester, whose tolerably steady and competent remuneration to her labouring class enables them to counteract, by good food in their stomachs, much of the ill effect which her smoky air would have on their lungs.

TRELAND.

BELFAST, January 13. BELYAFT, the second town in Ireland, not only in size, but also in importance, justly called the commercial capital of the country, is at present the seat of a wide-spread epidemic of small-pox. The Poor-law Commissioners of Dublin, a few westerness since, issued a commission to investigate the cause of the present outbreak, and, from the evidence that they obtained, it apoutbreak, and, from the evidence that they obtained, it speared that the disease was in the first instance imported from Liverpool. Every means is being adopted by the Sanitary Committee of the Town Council, Hospital authorities, etc., to check its spread. The Beard of Guardians have fitted up special small-pox wards in connexion with the Union Hospital, both for paner and paying patients. The Committee of the General Hospital have also opened a ward, but it is very difficult to gain the consent of patients and their friends for removal to either of these institutions. Indeed, in some bouses in the process roots of the test them. in the poorer parts of the town, three and four patients are ill from small-pox. A circular has been sent by our local guardians addressed to the proprietors of the various flux-spinning mills, weaving-factories, warehouses, and other places where a number of people are engaged, calling upon the employers to have their employes examined, either by the Dispensary Surgeons (who, by the way, do not in one sense care for this additional work, as it brings no extra remuneration) or by a "properly qualified Medical Practitioner" at the expense of the firm, so as to have Medical Fractitioner" at the expense of the firm, so as to have any cases upon which a doubt exists, as regards protection from former vaccination, re-vaccinated. Indeed, a general vaccina-tion on mass and isolation of the attacked would be the proper thing. Of course this could not be accomplished without a great deal of trouble and opposition from the very class it is intended to benefit. In one large mill, a Surgeon has been engaged to examine and report upon nearly 3000 workers, out of which number he expects to find at least 600 or 700 who will require to be re-vaccinated. The Commission in their late report state that vaccination has hitherto been very carelessly report sate tent vacientation as interest over very carriessy, performed in Belfast. The writer, however, know that this is not the case; so far, there have been but few deaths from the present epidemie in proportion to its magnitude. A few months since, nearly simultaneously with the appearance of the small-pox, cov-pox was reported to have occurred in ear Belfast.

Typhoid fever, from which we suffered during the autumn st year, is now dying out, and our town is otherwise healthy, especially since the severe frost and full of snow that lasted for several weeks, which is popularly thought to purify the air; and when our new drainage and sewerage scheme is completed, Belfast will compare favourably with any town of the same size in the United Kingdom.

The number of students attending Queen's College in the Medical Faculty is about 190, an increase over last year. College is in connexion with the Queen's University in Ireland, whose graduates have taken high places at the competitive Medical examination for the army and navy, the Civil Service in India, and elsewhere. Indeed, if we got fair play we shall prove a powerful rival to Dublin, not only in Medicine, but

also in law, engineering, arts, etc. also in law, engineering, arts, etc., while in connection with the Anne blinsy has been recently until in connection with the Anne blinsy has been recently with a connection of the appeal class in histology, which is exciting a good deal of interest amongstet the students. The General Hospital is being the culy recognised Medical and Surgical Hospital in Beifast, but I hear that wantl classes are held at the Ophthamin, Lyring-in, and the surprise of the connection of the conn

I hear that sman casees are new as two spansassons, sympo-skin, and Issen Hospitals.

The Uster Medical Society was opened for the winter session in November last by Mr. William McCormae, F.R.C.S.I., Surgeon to the General Hospital, and late Surgeon-in-Chief to the Anglo-American Ambulance, who, as Fresident of the Society, took for his address his recent experience in gunshot Society, took for his address nis recent experience in guines, ite, at the war. The lecture was illustrated by specimens, etc., and was of a most interesting description.

Mr. McCormac, before leaving Belfast to reside in London, was presented with a handsome illuminated address by the students attending the General Hospital, the meeting being students attending the General Hospital, the meeting using held in the theatre of the Institution. The Rev. the President of the Queen's College, and several of the principal Medical men practising in Belfast, were present. Such are a few hrief "jottings" regarding our doings in

Belfast during the last six months.

GENERAL CORRESPONDENCE.

GENERAL REPRESENTATION IN THE MEDICAL COUNCIL

LETTER FROM DR. E. WATERS.

[To the Editor of the Medical Times and Gazette.] Sir.—The impartial and full reports of the proceedings of the General Medical Council, and the gentlemanly tone which characterises the Medical Times and Gezette, embodies me to request your insertion in this week's number of the following Committee of the British Medical Association.

First, I wish to exculpate the Reform Committee from the

harge of undue modesty in accepting the responsibility of

drafting a Medical Bill.

It is well known that, after all successful Parliamentary opposition, though many may have combined to aid it, one party alone has to assume the place of those defeated.

In regard to the withdrawal of the Government Medical Bill last session, though some of the Corporations actively opposed it, the withdrawal followed the refusal on the part of the British Medical Association to accept the Bill unless direct the British medical Association to accept the Bill unless currer-representation was conceded; but for this refusal, the Bill would, as far as is known, have been pressed forward, and a general opinion was entertained that it would have passed the second reading; and as in the House of Lords all the opposisecond reading; and as in the House of Lords all the opposi-tion of the Universities and Corporations was disposed of in a single sitting, it is not impossible that their opposition in the Unuse of Commons might have been equally futile. Bo this as it may, the British Medical Association was the only body with which the Government offered to make condi-

tions; and it was quite in order for members of Parliament who stons; and a was quite a over or memoere or ransmass was were expinished to the fact to declare that, by the refusal of the proposed condition, the Association made itself responsible for the preparation of another Bill to supply that which was lost. This is the responsibility which the Keform Committee could not forego, and decided to accept.

not forego, and decided to accept.

In reply to your observation, that it would be dangerous and
impracticable to leave the whole of the Profession directly
represented in the General Medical Council, I ask permission represented in the General medical Council, I ask permission to submit to you and to your readers that it is quite practicable in the manner proposed by the British Medical Association. The Association proposes that representatives shall be elected for the three divisions of the Kingdom. At present the representative on the General Medical Council for the University of Cambridge is elected by all the graduates of the University, who form a constituency of about double the number of the registered Medical Practitioners residing either in Scotland or in Ireland. If the graduates of Cambridge experience no dif-ficulty in making their election, a constituency of half the number, with the improvements in the mode of election which experience has suggested, and which the British Mcdical Association proposes to adopt, need not, therefore, shrink from the attempt. So much forthe application of direct representa-tion in Scotland and in Ireland.

tion in Scotland and in revenue.

As regards England, the constituency will be much larger—in round numbers, say 15,000. This is about the number of the Members of the Royal College of Surgeons; and the President of the General Medical Council maintain that, as at Cambridge, so with the other Corporations and Universities, each member should have a vote in the election of the representative. What he proposes for the Royal College of Surgeons, the British Medical Association proposes for a constituency of equal size—that, namely, of the Profession of England and

Again, under any Act which embraces the one-portal system, which you uncompromisingly advocate, a body of Practitioners unconnected with any Corporation will necessarily arise. These unfortunates, unless through direct representation, can have

no influence in the election of the Council. no innuence in the electron of the Council.

Further, different Corporations—for instance, the Royal
College of Surgeona, the Royal College of Physiciana, and the
Apothecaries' Society of London—are now forming conjoint
boards to grant a general licence. To which of the Corporations are such licentiates to belong—to one only, or to all?

In the last place, many Practitioners belong to more than

one University, and to several Corporations. Such men, though not more distinguished than others who are simple graduates of one University, will have a plurality of votes in the election of the General Medical Council.

or use venerar Medical Council.

The British Medical Association, by its plan of direct representation, desires to obviate these anomalies by giving every registered Tractitioner one vote, and maintains that, as at present with the University of Cambridge, the best men will be elected.

I am &c. EDWARD WATERS.

Chester, January 18.

THE HOSPITAL REFORM COMMITTEE. LETTER FROM DR. ALFRED MEADOWS.

[To the Editor of the Medical Times and Gazette.] SIR,—Will you allow me to state that the only response I have had to the letter of Sir William Fergusson, which appeared in your last issue, asking for funds to defray the expenses of printing, etc., incurred by the Hospital Reform Committee, has been a guinea from Mr. Heckstall Smith, and five shillings from Mr. Francis Mason and Mr. Fairlie Clarke.

The expenses at present amount to about £30, and more must be incurred, if the work of the Committee is to be completed. Surely the 200 members of the Profession who appointed us a Committee do not intend that we should pay as well as work! We are quite willing to do all the latter, but we think we ought at least to pay only our share of the former.

I am, &c., ALFRED MEADOWS. George-street, Hanover-square.

CAMBRIDGE EXAMINATIONS.

[To the Editor of the Medical Times and Gazette.] Sin,—I fee are zamous to are zerous funer and onesset; I can be a cx-University College Man, "that, inasmuch as I never attempted to argue "that the Cambridge M.B. of to-day is as hard to get as the London one," and as I certainly never asserted such a proposition, I cannot have "fallen into the great asserted such a proposition, I cannot have "tallen into the great error of basing my argument on the fact that nearly twenty years ago the London B.A. was not a very good degree." I know nothing of the relative merits of the respective examinations, and should be very sorry to hazard an opinion expressive of an invidious distinction, having no means of forming a judgment on the subject. All I desired to point out, and to illnstrate by an anecdote, was, that for ordinary degrees, no matter in what Faculty, it was a mistake to make the examination questions so difficult that either the standard of the answers must be lowered or perhaps one-half of the candidates be rejected. I submitted that an ordinary degree, nalike an

honorary degree, is not supposed to be a certificate of superior acquirements, but merely of competency in the subjects of a liberal education, or of a particular Faculty. The London University "standard of rejection," as your correspondent asserts, "is tremendous," undoubtedly; but the only question asserts, " is tremendous," undoubtedly; but the only question originally at issue was, whether a lower standard of questions and a greater accuracy of answers was not a more desirable alternative than a wholesale pluck. The late Mr. Burcham seems to have thought it was. I humbly venture to think with him; but, with the ntmost courtesy, must protest against being misrepresented, or made to draw odious comparisons, which I studiously guarded myself from attempting.

I am, &c., A CAMBRIDGE M.A.

REPORTS OF SOCIETIES

CLINICAL SOCIETY OF LONDON. FRIDAY, JANUARY 13.

Mr. PAGET, F.R.S., President, in the Chair.

ANNUAL MEETING.

THE report of the Council was read, showing the Society to be in a flourishing condition, with 211 members, and a balance of £206 in their favour.

The adoption of the report was moved by Dr. Powers, and seconded by Dr. SILVER.

Dr. BARCLAY moved a cordial vote of thanks to the President on his resigning the chair. This was seconded by Dr.

Dr. Cholmeley moved a vote of thanks to Mr. Callender, and the retiring members of the Council. This was seconded

by Dr. CAYLEY.

Dr. Pavy read notes of a case of Paroxysmal Harmaturia. Dr. Parv read notes of a case of Paroxysmal Hematuria, and exhibited sponisms of the nrine. The patient, previously in good health, was seised, after exposure to cold, with nauses, and passed urine porter-like in colour. He was sent to bed, and the urine gradually because natural. Eleven days after, he was again exposed to cold, and a relapse occurred. The urine in these paroxysms contained coloured granules and coalast-of-line crystals, but no blood corpuscies and no exact and the coalast-of-line are regulated in the blood corpuscies and no exact and the coalast-of-line are regulated in the colour control of the control of the colour control of the colour control of the colour control of the colour Dr. Pavy spoke of the affection as one characterised by well-defined symptoms, quite distinct from ordinary hæmaby wen-defined symptoms, quite carriers from ordinary mema-turia, and said that the attacks always followed exposure to cold. He had a characteristic case just then under his care in Guy's Hospital (Philip ward, No. 43), who could be visited by members interested in the subject.

Dr. BROADBENT had such a case under his care during the last two years. After exposure to cold, the man passes dark urine, containing a quantity of albumen, but not commensurate with the colouring matter passed. He has a sallow tint at these times. He had never seen any oxalates, nor was he inclined

times. He had never seen any oxanismes, nor was no transfer to put a high value on their presence.

Mr. Gart had seen a somewhat similar case after a railway collision. The patient had been subject to the disease before, but became worse after. It was specially excited by harass or

Mr. T. Smrrn knew an instance of a gentleman who could not eat rhubarb-pie without having his urine next day dark and bloody. This ceased with change of diet.

Dr. Greeneow said all cases of intermitting hematuria were not intermittent hematuria in the sense he adopted. Exposure to cold was the usual cause. The patients got well in Hospital, and kept well while there, falling back when they went out. It depended on some constitutional cause. He went out. It depended on some constitutional cause. He thought oxaluria had something to do with it. Pront had long sgo noted the connexion between the two.

Dr. LANGDON Down said he had seen a case of intermittent The patient was seized with a rigor, and passed albaminaria. some urine rich in albumen. By and bye it became quite free. He came to London, and there had a rigor, when it again turned albuminous. Ho had seen a similar case in a

again turned adminious. It is not seen a same young lady. There were no casts.

Dr. Wiltenmas said cattle sometimes had a disease in cold weather known as red-water. In a case now in hand, the milder attacks were in the form of lithiasis. In his paper on the subject he did not read the part referring to the analysis of the urine. The patients may get well spontaneously.

Dr. Pavy said, with regard to the blood following the use of

rhubarb, the tint was quite different. His patient suffered after exposure to cold. Oxalates did not exist in all.

Mr. BRUDENELL CARTER next resumed the adjourned discussion on Syphilis following Vaccinia. He thought the subject sion on Syphilis Iolowing Vaccinia. Its thought the subject should be considered generally, and he would speak of cases occurring in ophthalmic practice. He referred to the signs laid down by Mr. Hutchinson as those of inherited syphilis; they were mainly admitted, although denied by Mooren, but they were so typical that one or all must be taken as syphilitie. He was compelled in certain instances to look for some infection other than parental, and he thought vaccination afforded the explanation. In constitutional syphilis the first child was worst, but the others suffered gradually less and less, although the poison was never totally climinated. In one case, although the poison was never totally climinated. In one case, with the ordinary signs of inherited syphilis, the symptoms were, he thought, plainly due to vaccination. Could these signs be induced by vaccination from a child syphilitio by inheritance. He thought it quite an likely that investion sond heritance? He thought it quite as likely that infection could be brought about by vaccine lymph as by blood. He thought this mode of propagation very common in country towns and villages.

Dr. Cholmeley said, before accepting Mr. Carter's terrible theory, they ought to insist on sound proof. He thought there must be a special local lesion in all instances of syphilitic infection. The two poisons, vaccine and syphilitic, ran quite a different course. Mr. Carter said that of the two poisons one only produced a local lesion, the other affected the constitution.

Mr. Tervay said that from Germany it was reported that the blood of a syphilitic patient introduced into the person of a healthy individual produced secondary symptoms without any primary sore. In one case it was propagated by saliva. Ho thought any secretion would propagate it, and that, too, without any local lesion.

Mr. HILL said that, in the case of children who had accidentally acquired syphilis early in life, and had got on to their second dentition, there were no characteristic appearances. Vaccinal syphilis would most likely be the same. Sometimes the mother was strongly syphilitic, yet the child was not affected

Mr. Kesteven was surprised at the doctrine advanced by Mr. Carter. He thought that, in all instances, there was a chance of the disease being imported. This young man was not an infant; was it certain that syphilis was not superadded. If the disease was so very easy of transmission, they should

see it oftener.

Mr. GASCOYEN was glad he could not believe Mr. Carter's theory. In referring to cases of so-called vaccinal syphilis, he mentioned Trousseau's, which were doubtful. He believed this to be the first undoubted instance which had occurred in England; other real cases had occurred abroad. couganu; coner real cases had occurred abroad. When dormant, syphilis cannot be transmitted; there must be some active symptom at the time of begetting. He did not hold with Mr. Carter's theory of gradual vanishing of symptoms. Dr. F. Sings referred to the instances recorded abroad. He

believed blood was drawn.

Mr. T. Smire said that, as to secretions being affected, the seminal fluid was evidence on that score. He thought there was enough oridence to enable them to put down the case as one of vaccinal syphilis. The man was now quite well.

Mr. Carkes, in reply, said he had advanced no theory. He had stated certain facts, and had framed an hypothesis to

account for them. Mr. Pager said he would not consider heredity disproved

unless the grandparents as well as the parents were shown to

In conclusion, he alluded to the pleasure he had experienced that Society, to its prosperity, and to the in filling the chair of that Society, to its prosperity, and to the eminence of their new President. The officebearers, a list of whom was given last week, were declared elected.

ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

SATURDAY, JANUARY 21.

DB. DEUTT, President, in the Chair.

DR. ROBERT BARNES read a paper on the question-

HOW PAR IS THE PRESENT PREVALENCE OF SMALL-POX TO BE ATTRIBUTED TO THE PLAN RECENTLY INTRODUCED OF LIMITING THE NUMBER OF PUBLIC VACCINATORS ?

Since it might be assumed, said Dr. Barnes, that the present prevalence of small-pox is evidence of the neglect of vaccination, the practical question arose as to what were the causes of

the neglect, and how was it to be remedied? That a country could be secured against the ravages of small-pox, was proved by the immunity of Ireland, as compared with the havoc caused by the disease in England. A comparison of the systems of vaccination carried out in the two countries would show where the fault lay. He would prove that the English system was unsuccessful, from the Registrar-General's weekly reports during the six menths ending December 31, 1870. The deaths from small-pox in London rose from 12 in the twenty-sixth week to 110 in the fifty-second week, and the mortality is still increasing. The total number of deaths in the latter half of 1870 was 749; of these, 389, or more than one-half, were children under 5 years of age, of whom it may be assumed that a large proportion were unvaccinated. From an examination of the books at the Small-pox Hospital, it appeared that 25 children under 3 years of age were admitted during the latter half of 1870. Of these 20 were unvaccinated; the 5 vaccinated recovered; 12 out of the 20 unvaccinated died. From these figures, and from a knowthe 20 unvaccinated ded. From these ngures, and from a know-le ligo of the fact that small-pox is not often fatal in vaccinate persons, it may be concluded that only a small proportion of these 749 persons were vaccinated. It is in the highest degree unsafe to rely upon a comparison between the number of registered births and of registered vaccinations, in seeking to imate the extent to which vaccination is practised. But, after all, the practical point was to find out the individuals who were unvaccinated, for the sake of protecting them and the community. As an example of the manner in which this might be carried out, Dr. Barnes mentioned that in 1861, when Medical Officer of Health for Shoreditch, he inspected two schools. Of 264 children examined, 8 had had the small-pox, 164 had good scars, 56 had scars. He had 95 of these children vaccinated scars, 30 bad scars. He had 99 of these children vaccinated immediately; 49 took the disease fully, and 33 in a modified form. Medical Officers of Health in various parts of the metropolis reported, from inspection alone, about the same time, that 10 per cent. of the children were not vaccinated. Tested by vaccination, he (Dr. Barnes) found that 30 per cent. were un-protected. He, in consequence, advised the Shoreditch protected. He, in consequence, advised the Shoreditch Guardinate to increase the number of vaccinators from six to eight, for he was of opinion that increasing the number of vaccinators would tend to dispel prejudices and to increase facilities for vaccination. He considered that the new system of limiting and concentrating vaccine stations had not shown itself successful. At Islington, for instance, the number of itself successful. At Islington, for instance, the number of vaccinations had fallen considerably. Dr. Barnes allowed there vaccinations has raised considerably. Dr. darms anowes there were many advantages in the new system, but thought they were too dearly bought if the number of children to which the advantage was brought was thereby diminished. The two primary conditions for securing good and universal vaccination were so to work the registration and universal vaccination were so to work the registration. of births as to bring every child promptly under Medical observation; and to utilize as large a number of Medical men as possible in the work of vaccination. To effect this, he suggested that the registration of birth should be made comory; the freest communication between the Registrars of births and the vaccinators must be provided; the parents of children vaccinated by a private Practitioner must be made answerable for the return of a certificate of vaccination to the answerator for the return of a certificate of vaccination to the Registrar; the number of public vaccinators should be made of least co-extensive with the districts of the Poor-law Medical Officers; and, lastly, some comprehensive scheme of Medical inspection of schools and the community at large as to immunity

from small-pox must be instituted.

Dr. Liff was decidedly adverse to any diminition in the number of vaccinators. The stations in Southwark were too few, too distant, and too cold, and the hours were alike at each; so that if a poor woman missed her opportunity one day.

she would have none for a week.

Dr. LETHENT showed how, by an efficient system of vaccination, small-pox was almost stamped ont in the City. A diminution of the number of vaccinators would, he maintained, be fraught with mischief.

Dr. Taire not only was adverse to the concentration of vaccine stations, but even advised that house-to-house vaccination ought to be pressed, especially at the present time.

Dr. G. Ross thought the proper thing would be to find out how many children would require the services of the vaccinators; and that the number of vaccinators should be in propertion. He considered that inspection of the poor was necessary, and that vaccine should be earried to them in their houses. In of births, and then saw to the vaccination of the children.

Mr. Lipple disagreed with many of the preceding speakers. In the present state of vaccination, he thought that many children were not properly vaccinated, and that bad vaccination

was worse than none. An efficient system attended with inspection was, he thought, desirable. Mr. Liddle remarked upon the universality of vaccination among the Jewish population, and their almost total immunity from deaths by

small-pox. Dr. SEATON said he was glad to find that the present epi demic was not laid at the doors of the system of vaccination of the Privy Council, otherwise he was prepared to show that those parts of the metropolis where that plan had not been introduced were subject to the greatest ravages. He then proceeded to speak of the investigations that had preceded then proceeded to speak of the investigations that had preceded and paved the way for the present system; the abuses that were found to exist, both with respect to the capacity of the vaccinators, the quality of the vaccine, and the manner in which vaccination was carried out. He maintained that in Coventry, Bristol, Excter, Manchester, and other places where the system of the Privy Council had had a fair trial, it had been found successful. Public vaccinators were, heretofore, not bound to look after unvaccinated children. Vaccination was so divided and subdivided, that there were not children enough to keep up a regular succession of arm-to-arm vaccinarecogn to a sep up a regular succession of arm-to-arm vaccina-tion, which is the only perfect method. He agreed with Mr. Marson, that to vaccinate imperfectly was mischievous; it did away with the chance of perfect vaccination, which could not be repeated. The Privy Council Regulations provided that each vaccinator should have an adequate supply of children, so that there should be a weekly succession of fresh lymph for arm-to-arm vaccination. This could not be done without an annual average of at least 500 infants, and in towns a district annual average of at reast own intants, and in forms a district vielding this number need not be a large one. In the metropolis it had not been got fairly to work, and be therefore recom-mended that they should suspend their judgment until the system had had a fair trial.

The debate on Vaccination was then adjourned to the next

The debate on Vaccination was then adjourned to the next meeting, in order to make room for a paper by Dr. T. Spencer Cobbold, "On Entozoa in relation to the Public Health, especially as regards Sewage Irrigation." This will be found

in another column.

Mr. MICHAEL criticised the statements of Dr. Cobbold, and maintained that such dangers had been greatly exaggerated. Mr. SMEE, on the other hand, corroborated the views of Dr.

Cobbold, and described the sewage operations of the Croydon Board, in the immediate neighbourhood of his cyperimental garden, which be believed to be highly injurious to health. Mr. Hore agreed with Mr. Smee as to the operations of the Croydon Board, for their land was an undrained awamp. He maintained, however, that, under proper conditions, sewage irrigation could be certried on with great benefit and free from

the dangers mentioned.

Dr. Hawkesley had long taken interest in the dry system, and thought Dr. Cobbold had proved that the water system was highly injurious.

Dr. LETHERY moved, and Dr. BUCHANAN seconded, that the

debate should be adjourned to the next necting.

Dr. Buchanan expressed a wish that Dr. Cobbold would show, at their next meeting, that outozoa were able to live under the various conditions of sewage, a fact which had been called in question by some of his opponents.

MEDICAL SOCIETY OF LONDON. MONDAY, JANUARY 2.

JOHN GAY, Esq., F.R.C.S., President, in the Chair.

Tim. Pensioner recounted a case of Glanders in the human embject, to which he had been called for the purpose of performing trachectomy, but there was no dyspuos, though otherwise the man was very ill. He was an omnibus conductor, and caught glanders from a horse which sneezed in his face. Coryza, pain in nock, difficulty in swallowing, exalted temperature, rigors, etc., were present. The skin hooked dusky and a remarkable steench perraded the room. The nostrila and fances were implicated, and sanions pus was discharged from a real control of the control

Dr. Wesster narrated a case he saw post-mortem at the Hospital at Copenhagen. There was no cruption on the skin. The disease seemed not for rare in North Gernany. He thought the disease might be contracted by those who lived in stables occupied by glandered horses, just as, in Spain, Italy, Medical Times and Gazette

and other warm climates, consumption is believed to be caught from residence in a house with consumptive invalids.

Dr. Fard. Sums inquired as to the degree of prevalence of glanders in London stables.

Dr. WILTSHIRE remarked that the disease was called glanders Dr. Williams: remarked that the disease was called glanders when it affected the air passages, and farcy when it affected the skin, arcolar tissue, lymphatics, and glands. The disease was communicated by contagion, and possibly by infection. Globules of mucus sported into the air might be carried some distance, and thus the disease was made to appear infectious. Dr. Wiltshire inquired if the disease was known to affect animals with divided hoofs, and whether, also, carbolic acid had

been made use of as a curative agent.

Mr. ROALFE Cox showed specimens from two recently killed Horses, while the Common security and the contents of the contents of the copically defected, and also the glands, the special affection of these giving the name to the disease. As Dr. Wiltshire had said, farry was one and the same disease affecting a different tissue of the system. The name farry was of Latin origin, and alluded to the stuffed condition of the animal's limbs in this disease. The specimens shown were portions of lung. These organs were studded with small indurated deposits like shot, and these deposits were scattered throughout the lung. and these exposite were scattered throughout the lung. In reply to a question from the President, Mr. Cox said that the animals did not recover from this disease, and the only thing to be done was to slaughter them. He never knew an animal of the bovine tribe to be affected with glanders. Further remarks followed, from which the opinion seemed general that glanders occurred more frequently in the human subject than was commonly known.

Dr. Thubicaux then read the paper of the evening, being continuation of the Clinical Experiences of the War. He dwelt especially on the character and effects of the wounds inflicted by the chassepôt and the needle-gun. Many German soldiers were wounded at distances where they could scarcely distinguish the enemy. The wounds so caused were characterised by slight penetrations of the tissues; sometimes the clothes were not rent by the ball, but carried forward into the cooless were not ven by the sail, but carries to ward into the fleshy parts a short way, and on pulling away the intruded portion of clothes, the ball came away also. The effect of the German bullets was, at their longest range, more severe than that of the French; and at equal relocities, the German bullets, being the larger had the mentionest the contraction. that of the French; and at equal velocities, the terranan ounces, being the larger, had the greater penetrating power. The property of the property of the large pieces of shell tear, break, and kill, the smaller pen-trate deeply. These fragments often kill, without external laceration. The majority of cases in the Hospital to which Dr. Thudichum was attacked, were injuries of bones in the secondary state, requiring operative interference. In dressing the wounds, no sponges were used, carded oakum being employed, and after use this was at once burned. Oakum itself was too coarse a dressing for wounds; and Dr. Thudichum preferred phenylised lint. Bone operations did well, because sharp phenyined lint. Done operations and weil, uccause snarp chisels were used; rigorous eleanliness of hands, instruments, and bandages was observed. The patients had plenty of fresh air, and the tents were kept clean. Dr. Thudichum condemns the use of saws, and thinks that bones are the most manageable parts of the body. Wounds from sabre or bayonet were rarely seen, for at close quarters that side generally retired which had the least liking for cold steel. Typhoid fever and dysentery were seen abundantly, the patients being many of them poor, and coming from distant parts of Germany. The author adhered to the old dictum, "that gunshot wounds of the knee-joint required amputation."

Dr. McCornac said his experience agreed with that of Dr. Thudichum. Out of 1800 cases, he could only find one of a bayonet wound, and not one of a sabre cut. He thought excision of the knee-joint for a guashot wound a very fatal operation; better success attended excisions of the upper extremity. He had seen many cases of injury of the knee where the ball

had traversed the joint without penetrating.

Mr. W. Adams said that conservative Surgery on the battle-field was a failure. He mentioned Stromeyer's experience in the Schleswig-Holstein campaign. Then antimony was a great deal used as an antiphlogistic.

Dr. Peter Allen said that in the Crimean campaign they did not practise excision; the rule was amputation.

Dr. Webb, U.S.A., believed the success of conservative Sur-

ery to depend mainly on the cases selected for operation. He gery to depend mainly on the cases selected to open during the detailed several successful cases he had seen during the American war. Amputation in severe injury of the knee-joint should be done on the field; and he considered too much searching after the ball in the wound an objectionable practice.

Dr. Thudichum replied, and the meeting adjourned.

OBITUARY.

GEORGE DAGLISH, Esq., F.R.C.S. Enu.

Mr. George Daglish, of Wigan, died October 20 last. The and Colons Datas of Wigna, and Colons Salar. And deceased had practised in that fown for more than forty years. In early life he served an apprenticeship with the late Dr. Martland, of Blackburn, and subsequently studied at St. Bartholomew's Hospital, London. He obtained a large practice in Wigan and the neighbourhood, and was held in high esteem both by his patients and fellow-townsmen. His kindly voice and cheery smile will long be remembered by those who knew and cheery smile will long be remembered by those who knew him. About eight years ago he had a slight attack of an ap-plectio character, which passed off. His health, however, gradually failed, and about four years ago he consulted Dr. Noble, of Manchester; subsequently, about a year later, he consulted Dr. Waters, of Liverpool. Symptoms of valvular to the state of the heart and fairly degeneration had their work of the same of the heart and fairly degeneration had they much form precitice. He considerable suffered form are strength of the same of the heart and fairly degenerate the same of the same form precitics. He considerable suffered form are strength of the same from practice. He occasionally suffered from severe attacks of angina and dyspnosa, but he still continued to visit some of his patients and to perform his duties as an alderman and magis-trate. On October 18, as he was about to leave his house to pay some visits in his carriage, he had an apoplectic attack. He was at once attended by his assistant, Mr. Hunt (his partner, Mr. Shepherd, being from home); and Dr. Waters, of Liverpool, saw him in the afternoon. He was then slightly Laverpoot, saw him in the atternoom. He was then slightly conscious, but his condition appeared perfectly hopeless. Dr. joined in consultation by Dr. Noble, of Manchester; but coma had set in, and death took place on the following morning, the attack having lasted only forty-four hours.

Mr. Daglish was a Fellow of the Royal College of Surgeons

of England, a Justice of the Peace for the county of Lancaster, and an Alderman of the borough of Wigau. He had been on more than one occasion asked to accept the office of Mayor, but had declined. In politics he was a staunch Conservative. He was a very old member of the British Medical Association, and of its Laneashire and Cheshire Branch, the annual meetings of which he used regularly to attend; and his absence from them in future will be much felt by many of his friends. He was 65 years of age, and was twice married; his second wife survives him. His funeral assumed almost a public character, and was largely attended by the Profession and inhabitants of Wigan. He is succeeded in his practice by Mr. C. D. Shepherd, who joined him in partnership some years ago.

JOHN HARRUP HAMMERTON Esq.,

formerly Resident Medical Officer to St. George's Hospital, died at his residence at Henley-on-Thames on the 10th inst., aged 69. Mr. Hammerton was connected with St. inst., aged 69. Mr. Hammerton was connected with St. George's Hospital for upwards of forty years, and it may truly be said that the energies of his life were devoted in overy department of the Hospital, and either directly or indirectly his opinion had a large share in the regulation of his lite affairs. Even the senior officers were often glad to profit by his advice, which was always available for the benefit of the institution, or of any one connected theverwith. Whenever any difficulty occurred in the management of the Hospital or the care of the patients, the same influence for good was at hand. Mr. Hammerton's opinion might always be asked, and was always readily given, although the reasons for that opinion were seldom heard. The estimation in which the Governors of St. George's Hospital held Mr. Hammerton, and the sense which they entertained of his services extended over so long a period, have been indicated by a resolution, passed at the weekly loard, and directed to be sent to his nearest relatives. January 11 it was moved and unanimously carried—"That this Board, fully sensible of the valuable services of Mr. John Hamrecommendation of the Comments family of the late Mr. John Hammerton.

DEATH OF A CENTENARIAN. - In the Dublin papers of Monday last, the 23rd inst., was recorded the death of Mrs. Ballantine, of Dundrum, county Dublin, in the 106th year of her age. It is stated that she retsined all her faculties to the

MEDICAL NEWS.

ROYAL COLLEGE OF SURGEONS OF ENGLAND .- The following gentlemen, having undergone the necessary exami-nations for the diploma, were admitted Members of the College at a meeting of the Court of Examiners, on the 24th inst., viz. :

Alkin, Charles Edmund, Clifton-place West, of Guy's Hoppital, Alkin, Charles Edmund, Clifton-place West, of Guy's Hoppital, Beanish, James Maybury, M.D. Queen's University, Ireland, Cork, of the Dublin School, R.C.P. Edin, Great Ormond-street, of St. Bartholo-men's Mospital,

sey, Francis James, M.A. Lond., Clapton-square, of Guy's Hospital. ss, Stafford Thomas, L.B.C.P. Edin. and L.B.A., St. George's-read, of

Charle for more dames, B. A. Lone, t. appone-square, or truy B Longman. King's College, b. H. C. Z. Edin. and H. S.A., S. Coccept-vond, of King's College, b. H. C. Z. Edin. and H. S.A., S. Coccept-vond, or King's College, and College, Chaphana, William Creshley Sampson, Scothaes, of Gny's Hospital, Dorens, Albert Henry Greiffichs, Lansdown-road, Notting-hill, of St. Bar-Duk, Bernard, L. S.A., Littlebampton, of King's College, Bype, Washington, Evrosalitre-treest, of University College, Bype, Washington, Devonative-treest, of University College, Dames, Arthry Juke, S. B. Toronto, of St. Thomar's Hospital. Lewis, Lawis, Anythesgane, of University College, Lewis, Lawis, Anythesgane, of University College.

Longeures, Alexander Reene, L.S.A., Farnham, Surry, of University CalMoors, Henry Coel (fast Leisenham Royal Engineers, H.M. '8 Bombay,
Army), of the Burmingham School.

Most, Janus West, L.E.C.P. Edin, of the Manchester School.

Netherclift, William Hen.L.A., Upon, Boser, of the London Hospital.

Netherclift, William Hen.L.A., L. Had. 'Convert Prison, Portementh,
of the Charring-room Hospital.

Newton, Charles John, L.S.A., Chettenham, of St. Bartholomev's Hospital.

Revino, Charles John, L.S.A., Chettenham, of St. Bartholomev's Hospital.

Hospital hospital hospital hospital hospital schools.

Res, Froderick George, Fullam, of St. George's Hospital.

Stancey, Edward, L.R.C.P. Ziln, Sheffield, of the Sheffield School.

Whitebeek, Alfred, Birmingham, of the Birmingham School.

Whitebeek, Alfred, Birmingham, of the Birmingham School. The following candidates passed on the 25th inst., vir. :-

The following candidates passed on the 25th inst., viz.:—
Bulloch, James Lawrence, Berkhaupstead, of University College.
Crows. Prantis Bichardson, Gifton, Bristol, of King's College.
Crows. Prantis Bichardson, Gifton, Bristol, of King's College.
Hospital.
Hospital.
Why Workshaupston, of the Dabbin School.
Bristol, Sermitals, Emiscocky, of the Dabbin School.
Holman, Robert Colgata, Lii.A., East Hobbits, Sussex, of Guy's Hospital.
Holman, Robert Colgata, Lii.A., East Hobbits, Sussex, of Guy's Hospital.
Lynk, Bullevil, Commercial-road, of the London Bould.
Lynk, Bullevil, Gorane, Sanday.
Burstand, Occupy Le Hunt, Gray's Inn., of King's College.
Burstand, Occupy Le Hunt, Gray's Inn., of King's College.
Hospital.

ow, Richard Henry, Dublin, of the Dublin School. Eleven candidates, having failed to acquit themselves to the satisfaction of the Court of Examiners, were referred to their

Hospital studies for six months.

APOTHECARIES' HALL.—The following gentleman passed his Examination in the Science and Practice of Medicine, and received a Certificate to practise, on Thursday, January 19, 1871 :-

Wood, Robert Arthur Henry, Liverpool. As Assistants in Compounding and Dispensing Medicines:

Holding, John, Exeter. Throaks, Marier Hamilton, Kingsbridge, Devon.

The following gentleman also on the same day passed his First Professional Examination:— Dudley, William Henry, University of Glasgow.

MILITARY APPOINTMENTS.

MEDICAL DELATIONT — SHARING ASSIGNMENTS.

Mellopy to Branch Assignment — Robert Turner, from helipsy to Brunke, decessed; Assignment — Robert Halbard — Robert 7th Foot, to be 80 placed on half-pay.

87H Foot.—Staff Assistant-Surgeon Albert Halahan L'Estrange, to be Assistant-Surgeon, vice Henry Joseph O'Brien, M.B., appointed to Assistant the Staff.

65rs Foor.—Staff Assistant-Surgeon William Graves, to be Assistant-Burgeon, vice John Williams, whose transfer from the Staff, in the Garette of November 11, 1870, has been cancelled.

BIRTHS.

Gill.—On January 16, at 4, Camden-crescent, Dover, the wife of J. B. Gill, M.D., of a daughter. James.—On January 20, at 87, Clarendon-road, Notting-hill, W., the wife of Richard James, M.R.C.S., of a son. Kirkwan. - On January 23, at Barming-heath, Maidstone, the wife of Dr. Kirkman, of a son.

McCoy.—On Janury 19, at No. 6, Selwood-villas, Cotham, Bristol, the wifs of Robert William McCoy, M.D., F.E.C.S.I., Colonial Surgeon, Sierra Leone, West Africa, of a son.

SAVAGE.—On January 17, the wife of Thomas Savage, M.D., F.B.C.S., of Birmingham, of a daughter.

Birmingham, of a daughter.

Mann.—On January St. at Balburn, Twickenham-common, the wife of
Martindale C. Ward, M.D., of a daughter.

Wiss.—On January 17, at Oothic-villa, Bnrrage-road, Plumstead, the
wife of William C. Wise, M.D., of a daughter.

MADDIAGER

Binch-Lambert.—On January 17, at St. John's, Hackney, George Birch, M.R.C.S.E., to Eliza Isabella, eldest daughter of Mr. John Lambert, of Finsbury.

Finsbury.

On January 29, at All Saints' Church, Gordon-square, one-Schwerz, —On January 29, at All Saints' Church, Gordon-square, William Clements Good, E.D., his Danish Majesty's Consul-General, Hull, to Emily Elizabeth, daughter of John Summers, M.D., Deputy Improtor-General of Hospitals, Fosha-

Harling.—Picherino.—On January 19, at New Brighton, R. D. Harling, M.D., of Seymour-street, Portman-square, to Katherina Elizabeth, cldest daughter of C. W. H. Pickering, Eq., New Brighton, Cheshire.

Istonis—Ebocons.—On January 20, at 8t. Petersburg, Serge Istonin, eldest son of Admiral Istonin, of the Imperial Russian Navy, to Mary Philp, second surviving daughter of James Edgeome, M.D., of 24, Brunswick-equare, London, W.C.

STRUBELT—BLEST.—On January 19, at St. Andrew's Church, Sibertwold, Arthur Finnis Stilwell, Eq., eddext son of the late Arthur Stilwell, M.D., of Mooreroft, Hillingdon, to Caroline Louisa, second daughter of Alexander Melville Blest, Eq., of Sibertwold.

ander Mciville Biest, Eeq., of Siltertwold.

Ussumer-Jourston.—On January 19, at the Iron Room, Balham, Henry Ussher, A.B., M.B., T.C.D., of Lansdowne-terrace, Waudsworth, 856 of the late Richard Beverly Ussher, Captain in H.M.'s 99th Regt, to Charlotte Elizabeth, eldest daugster of Robert Lyon Johnston, Esq., of St. Ann's-hill, Wandsworth.

VINES-STRVENS.—On January 19, at Edgbaston, Henry J. Kendrick Vines, F.R.C.S., of Reading, to Caroline Ellen, fourth daughter of the late Rev. W. H. Stevens.

DEATHS.

ARCHDALL.—At 10, Bolton-row, Mayfair, the daughter of Dr. Gordon Archdall, on January 18, aged 10 weeks. ABBITAGE, ALICH MABEL, only daughter of C. H. Armitage, M.D., at 9, Huntress-row, Scarborough, on January 19, aged 5 years.

BROWN, TORIAS BUSTAT, second son of the late John Browne, Surgeon, of Camberwell, Surrey, at Buenos Ayres, South America, on November 25,

JACKSON, AGNES HILDEGARDE, the beloved wife of Dr. James Jackson, and the third dearly-loved child of the late Francis Helfrich, of Brompton, at Mount Gambier, Sonth Australia, on November 29, 1870.

LATHAM, ANNE HOOGES, relict of the late John William Stanley Hodges, M.D., R.N., at her residence, 66, Gloucester-place, Portman-square, on January 15. January 15.

Lucas, Sv., Jonn Welles, House-Surgeon at the Royal Infirmary, Windsor, son of St. John W. Lucas, Esq., Withington, near Manchester, and grandson of the late Capt. J. W. Bazalgette, R.N., at Windsor, on January 14, of scarle fever.

Nisser, Matthew, M.D., H.E.I.C.S., at 10, Lansdown-crescent, Chelten-ham, on January 17, aged 74.

OLDFIELD, HENRY AMBROSE, M.D., late Surgeon-Major in the Bengal Medical Service, on January 19, in his 49th year,

JACKERS, JOHN, EQ., formerly Assistant-Surgeon 72nd Begt., at Canterbury-place, Lambeth, on January 17, in his 58th year.

PARKER, FRANK, third son of the late Henry Farker, M.D., of Overton, at the Watergate, Chester, on January 17, aged 41.

RICK, CHARLOTTE, eldest daughter of the late Rev. John Howard Rice, I.L.D. and M.D., at 1, Westmoreland-road, Westbourne-park, on January 21.

RICHARDSON, ISABELLA, the dear wife of Mark Richardson, M.D., late Surgeon Bengal Army, at 95, Inverness-terrace, Hyde-park, on Jan. 18. Soden, John, F.R.C.S., late of Bath, on January 19, aged 57.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession.

Prequired in the Constants, see person to a source approaches motions on possible properties of the Constant Vision.—Medical Officer for Dictrict No. 3. Candidates must be duly qualified in accordance with the General Orders of the Four-law the Guardians, on or before February 15. Elections to the Girk to the Guardians, on or before March values of the General Orders of the General Constant of the Guardians of

POOR-LAW MEDICAL SERVICE.

* The area of each district is stated in acres. The population is computed according to the BESUNATIONS.

Bellingham Tales.—Mr. C. R. Kendal has resigned the Fourth District area, 8900; population, 285; salary, 512 per annuum.

East Referd Union.—Mr. Marshall has resigned the Clarborough District; area, 20,817; population, 5066; salary £69 per annum; and the Wikhness, 2007—10,1000; salary £69 per annum; and the proposition of the control of

Wrazkan Union,—The Hope District is vacant; population, 640; Wrazkan Union,—The Hope District is vacant; area, 11,703; population, 4646; salary, £15 per annum.

APPOINTMENTS.

Brambey Union,—Alfred Rickards, L. R.C.P. Lond., M.R.C.S. Eng., to the Armley District.

the Armley District.

L. R.C.P. and S. Edin., to the High Ormsby District. James Olen, B.M. and M.C. Univ. Olas., to the High Ormsby District. James Olen, B.M. and M.C. Univ. Olas., to the

Low Ormeeby District.

Lichfield Union.—Augustus Newman, M.R.C.S. Eng., L.S.A., to the Alrewan District. Merthyr Tydfil Union.—Walter R. S. Jefferim, B.M., M.C., L.M. Univ. Edin., L.R.C.S., L.R.C.P. Edin., to the Penderyn District.

MRS. LEGGATT passed the preliminary examination in Arts at the Apothecaries' Hall, Dublin, on Friday, the 20th inst.

BABOO KANYELAH DEY, a Bengalee Chemist of local distinction, has been appointed a Fellow of the Calcutta

THE office of London Physician to St. Ann's Royal Society's School has become vacant by the death of Dr. Mayo, F.R.S. The appointment is in the gift of the whole body of subscribers. Office, 52, King William-street, London-bridge.

IMPRISONMENT FOR NON-VACCINATION .- The parents of some children in Toxteth-park having refused to have their children vaccinated, and, on being fined, neglecting to pay the fine, the Liverpool county magistrates, on Saturday, granted warrants for their commitment to prison for seven days.

LONDON WATER. - At the lecture of Professor Tyndall, at the Royal Institution, on Friday last, "On the Supply of Water to London, "nine bottles, containing samples of the water of the nine London Companies, were passed before the electric lamp, and revealed a condition of things which dis-gusted the audience considerably. Lambeth was pre-eminent in bad qualities, but all the specimens were far from pure.

CITY OF LONDON HOSPITAL FOR DISEASES OF THE CHEY OF LONDON HOSPITTAL FOR DISEASES OF THE CHEST, VICTORIA-PARK. — During the Christmas week, the patients in this institution, in addition to the usual dinner and tea, had small presents given them at the expense of some members of the committee, consisting of fiannels, chest-protectors, comforters, shawls, etc., made by the female patients under the superintendence of the matron.

WEST KENT MEDICO-CHIRURGICAL SOCIETY .- At the WEST REST MEDICO-LHEREGICAL SOCIETY.—At the meeting of this Society, held on Fiday, January 13, Dr. Clapton meeting of this Society, held on Fiday, January 13, Dr. Clapton of Stricture of the Urethra by the Employment of the Stricture Dilator: was read by Barnard Holt, F.R.C.S., Senier Surgeon to the Westminster Hospital. After reading the paper, Mr. Helt zahlbited, and explained the action, and use of his "winged" catheter. Drs. Ralph Gooding, Moon, and Purvis, and Mesers. Johnson, Smith, J. P. Purvis, and Lockhart, took part in the discussion which followed.

UNUSUAL INVASION OF SMALL-POX .- The weekly reor of the Alice Hospital at Darnsstadt, for January 5, gives the following case:—"A case reported last week as admitted with sciatica, developed into small-pox of an unusual and severe type. The man died on Christmas-day. He was a Prussian soldier, and came direct from the neighbourhood of Pressand solutier, and cather three round to be degrated and of the usual symptoms, began in the right groin, and had the appearance of a common crythems. It spread upwards over the trunk, and reached the face, which became somewhat swollen. During this it into the temperature was about 40° Celsius, but the patient suffered no inconvenience. He took food well, and slept well. On the fifth day pustules appeared, which en the body were isolated, but on the face extremely numerous and confinent. They also appeared on the fauces and tonsils. The conjunctive were not affected. The patient was now unable to swallow, and the lungs became codematous. Death occurred on the eighth day. Another case, commencing in a similar way, has been transferred to the garrison Hospital."

DEATH IN A POLICE-CELL.-Yesterday afternoon an inquest was held by Dr. Diplock, at the Isleworth Workheuse, on the body of an elderly man, named Benjamin Vaughan, who was found in an insensible condition on the floor of the who was found in an insension condition on the moor of the Acton Police-cell on Saturday night, where he had been con-signed on a charge of being "drunk and incapable." The man was found lying in the road in front of the King's Arms, Acton, by Police-constable 327 X, who, as he smelt of rum,

conveyed him to the police-station, and charged him with being drunk and incapable. He was placed in the cell, which was warmed by hot air, and was visited every half-hour until about half-past ten, when Police-serjeant 35 went to him, and found he was on the floor of the cell, having fallen off the seat, in an insensible condition. A Medical man was sent for, who in an insensitie condition. A medical mass was considered that he was suffering from prostration, and ordered his assessment begins first given him a stimulant. The series of the serie his removal, having first given him a stimulant. then procured a cab, and sent him to the Isleworth Workhouse. a distance of between four and five miles. He arrived there aussauce or octween rour and nor miles. He arrived there about two on Sunday morning, and, notwithstanding that the Medical officer attended him, he died shortly afterwards. The post-mortem examination of Dr. Mackinday, yesterday morning, showed that the deceased died from congression of the brain. On an examination of the intestines, he found no trace whatever of either beer or spirits, and only about four cunces of a semi-fluid substance of a yellow colour. The coroner, in summing up, pointed out how injudicious it was to remove a man upwards of four miles when in a dying condition, when Policeconstable 17 X, of Acton, said the police had no other alternative but to do so, as there was no accommodation at the station. The jury eventually returned a verdict that the deceased died from the effects of effusion on the brain, and that the said death was due to natural causes. They also suggested that Colonel Henderson should be written to, with a view to providing accommodation for such cases at police-stations, and for allowing the officers to exercise mere discretion in such matters. The coroner concurred in the suggestion.

NOTES, QUERIES, AND REPLIES.

Me that onestioneth much shall learn much .- Bacon.

Mr. Gross, Gibralter,-Your letter, with enclosure, came safely to hand. Alpha .- Try the late Dr. George Wilson's "Five Gateways of Knowledge."

D.C.L.-The article is by Professor Nagel, of Tübingen, and appeared in the Centralblatt für die Medicinischen Wissenschoften for December 24, 1870. B. H. E .- The mistake arose at the institution in question, not with us. We trust it has occasioned you no annovance.

Dr. Harrison, Baltimore. -- Your letter, with inclosure, has come safely to hand. The paper shall be sent in monthly parts, though it will be at the higher rate of postage.

John Thrmbleby .- Clark's process for softening water is only available for waters owing their hardness to bicarbonate of lime, the soluble form of the compound. To render it insoluble, quicklime is added, converting the bicarbonate into the carbonate or ordinary chalk, which is insoluble and so thrown down

Anti-Vaccination League. - The contemptible statements of this contemptible clique are no doubt injurious to the public welfare, but they do not exercise so much influence as some imagine. The noise made by the "League" is great, and the ery loud, but it is losing ground; the "logic of facts" is stamping out the efforts of the silly but wicked con-

An Articled Papil (Liverpool).—It is derogatory to his position and not within his duties—1. To wash and dust the surgery bottles. 2. To act as groom to the Surgeon to whom he is articled, by holding his horse and trap at the doors of his various patients whilst he goes in. 3. Carrying out medicines. 4. Acting as errand-boy in fetching medicines. "master," being bound to instruct his apprentices-1. Should take one of them to any accident that might occur. 2. He is not exempt from Sunday duty. 3. From 9 to 9 is not excessive; an hour to each meal.

Preston.-We have read with care and interest the proceedings at the Police-court at Preston on Monday last, as reported in the Preston Keening Neses. After the statement of the Medical witnesses called for the prosecution, we think that Dr. Bowen should have consented to the examination of the patient by Mr. Harrison, of Liverpool. What are the facts? That the man Forster was stabled in the region of the stomach with a dagger; that the wound was one inch and a half in length; that the stomach itself protruded; and that this organ had a wound through its entire structure of two inches and a half in extent. That the man vomited, took drinks, and that after this the protruded stomach was replaced, without anything being done to the wound. The external wound was sutured, and the man kept quiet. But he took fluids, and, as we gather from the report, occasionally vomited; yet there was no evil result, no peritonitis, and the man recovered without a bad symptom. In such a m'raculous case as this, no trouble is too great to arrive at the truth. We trust the Mayor will issue an order for the fullest investiga tion. The paltry quarrels between the "Doctors" must have no influence on the inquiry.

1:39 in.

CORRIGENDUM. TO THE EDITOR OF THE MEDICAL TIMES AND GAZETTE.

TO THE ROUTES OF THE REDGEAL THEM AND GALETTE.

Ris.—My attention having been called to an article in your paper of the 14th instant, headed "Reminiscences of an Old Guy's Man," I should feel collisively you presenting ne to correct a slight inservancy in the allison to myelf which that article contains.

The last John Morpus merceda his granulation of the state of the state of the present of the train is not quite correct. On the death of my under, Arthur Morpus (the late Actuary, in March has, Mr. John W. Revenson, who had for many press) and the state of the state of

Equitable Assurance Office, London, January 19.

COMMUNICATIONS have been received from-

BOOKS RECEIVED-

John Woodman, F.R.C.S., on Transplantation of Skin-Dr. Alleu on Aural Catarrh and Curable Deafness-Dr. N. Chever's Manual of Medi-cal Jurisprudence for India -Transactions of the Odontological Society of Great Britain, vol. iii. No. 3—What we Observed during a Visit to the Seat of War in 1870.

PERIODICALS AND NEWSPAPERS RECEIVED-

Nature—The Leels Mercury—The Journal of Anthropology, January, 1871
—Pharnaccutical Journal—New York Medical Journal, January—
Woodhull and Claffin's Weekly—The Manchester Courier—The Preston
Erening News—Medical Press and Circular—The New York Medical

APPOINTMENTS FOR THE WEEK.

January 28. Saturday (this day).

Operations at St. Bartholomew's, ib pm.; St. Thomas's, b) a.m.; King's, 2 pm.; Charing-eros, 1 pm.; B. Thomas's, b) a.m.; King's, 2 pm.; Charing-eros, 1 pm.; Royal Free, 2 pm.; Hospital for Women, 9] a.m.; Royal London Ophthalmic, 11 a.m.; Royal Listriturios, 3 p.m.; Rev. W. H. Channing, "Laws of Life Revealed in History."

30. Monday.

Ormston at the Metopolitan Pres Hospital, 2 p.m.; Rt. Mark's Hospital fee Dienes, 2 p.m.; Rt. Mark's Hospital fee Dienes, 3 p.m.; Royal London Ophthalmie, 11 a.m.; Royal London Ophthalmie, 12 a.m.; Royal London Ophthalmie, 12 a.m.; Royal London Ophthalmie, 12 a.m.; Royal London, "Two Cases of Ironis Strategial Providence," A case of Internal Strangulation by a Rand, and its Successful Treatment." Dr. Reter Allen, "On the most Recent Methods of Indiating the Tympannum" (the Instrumente achibitory).

31. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopsedic, Great Portland-street, 2 p.m.; Boyal Free, 2 p.m.; Royal London Ophthalmie, 11 a.m.

ANTHROPOLOGICAL SOCIETY, 8 p.m. Meeting.

ROTAL INSTITUTION, 3 p.m. Dr. Foster, "Nutrition of Animals."

February 1. Wednesday.

Operations at University College Hospital, 2 p.m.; St. Mary's, 1 i p.m.; Middlesex, 1 p.m.; London, 2 p.m.; St. Bartholomew's, 1 i p.m.; Great Northern, 2 p.m.; St. Donnas's 1 j p.m.; Opthalamic, Southwark, 2 p.m.; Samaritan, 2.30 p.m.; King's College Hospital (by Mr. Wood); 2 p.m.; Early London Opthalamic, 11 a. M.

OBSTRUEICAL SOCIETY, S p.m. President's Address. Dr. Playfair, "On Irritable Bladder in the Latter Months of Pregnancy." Drs. Braxtom Hicks and Phillips, "Hemarks on Tables of Mortality after Obstetric

Operations, SOCIETY OF ARTS, Sp.m. Meeting.

2. Thursday.

Operations at 8t. George's, 1 p.m.; Central London Ophthalmie, 1 p.m.; Boyal Orthopsedie, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmie, 11 a.m. Royal English, 2 p.m.; Dr. Odling, "Davy's Discoveries."

3. Friday.

Operations at Westminster Ophthalmic, 13 p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m. MEDICAL SOCIETY OF LONDON, S p.m. Meeting of Council.

ROYAL INSTITUTION, 9 p.m. Mr. W. Epottiswoode, Treas. R.S. and R.I., B" Some Experiments on Successive Polarisation of Light made by Str C. Wheatstone,"

VITAL STATISTICS OF LONDON. Week ending Saturday, January 21, 1870.

BIRTHS. Births of Boys, 1187; Girls, 1175; Total, 2982. Average of 10 corresponding weeks, 1860-69, 2113-6. DEATHS.

		_	-		_
			Males.	Females.	Total.
Deaths during the week			915	931	1846
verage of the ten years 1860-69 .			817:3	849'5	1666 8
verage corrected to increased popul	ation		***		1834
leaths of poorle above 90			1 .		

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS. Diphtheri Measles. Rearlet Ferer. tion, 1861. Small-West ... North Central 458125 85 3 3 4 10 618210 16 2 983321 12 East ... Bouth... 571156 19 91 773175 29 Total 2803989 188 17 68 6 51 . 12 17 1 17

METEOROLOGY. From Observations at the Greenwich Observatory. Mean height of barometer Mean temperature Highest point of thermometer. 29 147 in. 37 1 45 T Lowest point of thermometer . Mean dew-point temperaturs . General direction of wind . 35'1' 8.8.W.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, January 21, 1870, in the following large Towns:-

Whole amount of rain in the week .

			ion in 1871.*	cre.	during an. 21.	dur	Ten of A	pera ir(F		Temp. of Air (Cent.)	Rain Fall.	
(3	Boroughs, et funcional bor ies for all ex London.)	m-	Estimated Population middle of the year 187	24. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	sekly Mean	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.				
	aobe		3259469			1846	46'7	307	37.1	2'64	1'82	8:34
	temouth	***	125464							2.61	1.22	3.84
	rwich	***						26.0	34'5	1.39	0.08	0.50
Bri										411		
	dverhampton		T4438								0.75	1.80
ESIL	mingham	***	878574	48:3					36 3		0.98	1.30
	tingham		101367	45:3	91				3415		0.54	7.47
	erpool	***	526225	103.0			43.4			1.61	0.24	0.61
May	nchester	***	370140	84.2								
	ford	***	123851	23.8			43.4	01.0	200	1.33	0.45	
Res	dford	***	148030				45 8			2.61	0.15	0.00
Lee	da	***	296108	12.3			47.0			3.58	0.37	0.00
	ffield		255247	11:2	193		44.5			2.22	0.66	
Hu			135195	38.0			42.0			0.39	0 26	0.66
	derland		103037	31-9								000
	reastle-on-T	YDe	136293	25'5			43.0	23:0		0.78	0.00	
Edi	nburgh		179944	40.6	138		41.7			2 28		***
Gla	APOW		477627	94'3	363		43.5			2-95	0.38	0.97
Dul	olin (City, et	C. +;	322321	331	137	218	44'0	28:0	3614	2'44	0.81	2.21
Tot	al of 20 Tor United Kinge	WDS -	7336941	84'4	5230	-	-	_	-	2.01	0.24	1.33
Par	is-Week en				4	1	1	1			1	10
	nn. 21 nna-Week	end.	1889642	99			***		***	***	700	***
in	g Jan. 7	end-	622087	68		421			15.8	- 8.00		001
	g Jan. 21		800000	52						7 ***		070
-	44b - D 10		and American	n.						-4 61 - 5		-4-

At the Royal Observatory, Greenwich, the mean reading of the barometer the week was 20 15 in. The highest was 20 68 in. on Sunday, and the

At the Royal Observatory, Greenwich, the mean reading of the beaussifier in the week was 2016 in. The highest was 2006 in. on Simday, and the The September 10 of the West September 10 of the September

• The actual numbers of the population of these cities and boroughs, as cammerated at the Census in Arril next, will probably be svalable before the middle of the year, and will then be substituted for these estimates.

+ Inclusive of some suburbs.

ORIGINAL LECTURES.

LECTURES DELIVERED

PHYSIOLOGICAL LABORATORY OF UNIVERSITY COLLEGE.

By J. BURDON-SANDERSON, M.D., F.R.S., F.R.C.P., Professor of Practical Physiology.

LECTURE III .- ON THE COLOURED BLOOD CORPUSCIES-(Continued).

Or the several methods I referred to in last lecture by which the more delicate-coloured part of the blood corpuscles may be caused to leave the more solid resistant stroma, the simplest is that which consists in freezing and thawing it. The experiment is easy. In this mortar some ice has been pounded, along with a similar quantity of common salt. In the platinum capsule there is about half a teaspoonful of bullock's blood, which has been deprived of its fibrine by stirring. It is now opaque, and looks bright scarlet by reflected light. We set the capsule in the mortar, pressing it down into the ice and salt. As soon as it becomes solid we shall remove it, and let it thaw. We shall find that its appearance is entirely altered; that it has become darker in colour, and that we see through it rays of light which are reflected from that part of the surface of the porcelain capsule which is covered by it. And if we place a drop of it under the microscope, it will be seen that, microscopically, the alteration is as striking as that we have observed with the unaided eye. At first we shall be inclined to suppose that the corpuscles have disappeared, but if we look more attentively we shall discover the remains of them in the form of circular outlines of extreme delicacy, while the whole field is uniformly stained yellow by their escaped contents. [Unless the quantity of blood used is extremely small, it is necessary to repeat the freezing and thawing several times; but in the experiment made in the class one freezing was found to be a ufficient.]

When human blood through which an induced interrupted When human blood through which an induced interrupted current has been passed in examined, its condition can scarcely current has been passed in examined, its condition can scarcely fresh blood is used, and the experiment is performed with care, and particularly if single opening shocks (see last lecture) are applied in succession at intervals of a few seconds, a series of changes in the corpusalest themselves are observed before the ultimate result is attained. The corpusales lose their spheroidal contour and become knobby, the knobb sing at first rounded, afterwards more conical or pointed, and eventually the colour is discharged as above described. In the corpuseles of the frog the changes are of a similar nature. There are, however, some facts relating to the conduct of the nucleus which are worthy of special note. In living blood corpuscles the nucleus becomes rounder, apparently smaller, and much more refractive than it was before, while the contour of the corpuscle itself becomes less elliptical. In the newt I have observed that the nucleus approaches the surface of the corpuscle just before the discharge of the coloured part from the stroma, and not un-frequently escapes along with it. It is also common to observe at an early stage in the process, that the coloured substance, after it has become free, forms itself into drops which look like drops of coloured oil, and swim about for a short time in like drops of coloured oil, and swim about for a short time in the comparatively colourless liquor sanguinis without being dissolved in it. After coalescing with other drops of similar origin, they eventually fade away.

origin, they eventually take away.

In interpreting these phenomens, it is necessary to distinguish carefully between those which are peculiar to living blood and may be dependent on contractility, and those which result from molecular changes of other kinds. Great care must results from more unit changes or other kinds. Great care must also be taken not to confuse the results of electrolysis, particu-larly those which occur at the positive—that is, acid—pole, with the more direct effects of the induction current. The with the more direct effects of the induction current. The last of these two sources of uncertainty may probably be avoided if single opening shocks are used throughout; for, when this is the case, there is no development of gas in the neighbourhood of the tinfoil points; As regards the former, further observations are wanted. I have noticed that, so far

Vot. I. 1871. No. 1075.

as relates to the mere solution of the colouring matter in the same, whether the blood used is taken from the living animal or from one which has been dead for several days; but I or from one which has been dead for several days; but I believe that the changes of form observed in the corpuscles of mammals, and in the nuclei of batrachians, are seen only in living blood. The action of chloroform on the blood I shall have to refer to in connexion with another subject.

ON BLOOD PLASMA.

OBSERVATION XIII.-DEMONSTRATION OF THE MODES OF SEPA-RATINO THE CONSTITUENTS OF THE BLOOD BY MECHANICAL MEANS

As the blood is not a liquid, in the strict sense, but consists of coloured and colourless corpuscles suspended in liquor sanof coloured and colourless corpusales suspended in liquor sanguinis, it is necessary, in order to examine this liquid, to separate the corpusales suspended in liquor sanguinis, and the corpusales from it by mechanical methods—i.a, by subsidence and decantation or filtration. As, however, you cannot, under ordinary ferometances, remove blood from the call coagulation, you cannot apply either of these methods to the blood unless by some means or other you can contrive to keep it in a liquid state.

The carliest attempt to common the liquid state of the carliest attempt to common the liquid state.

keep it in a induct state.

The earliest attempt to overcome the difficulty was made by Johannes Müller. His experiment consisted in allowing a frog to bleed into a solution of sugar (half per cent.), and then rapidly filtering the mixture. The large corpuseles of rrog to oreca mto a solution of sugar (half per cent.), and then rapidly filtering the mixture. The large corpusales of the frog's blood are retained, and the liquid passes transparent and free from corpuscles. After a time it solidifies to a trem-bling jelly, which eventually contracts into a clot surrounded

by serum.

This experiment was, for a long period, the only proof of the existence in the blood of a liquid possessing the properties from the existence in the blood of a liquid possessing the properties first when left to itself quite independently of the corpuselse. It does not, however, enable us to study the properties of this liquid completely, because he Müller s'filtrate its diluted with saccharine solution. The experiment we are now going to make is a modification of this for Müller. This test-tube (No. 1). which is capable of holding about a comple of drachms of liquid, is already filled to about one-fifth of its depth with saturated solution of sulphate of soda. A second test tube of similar size is a quarter full of a solution of sugar of the strength employed by Johannes Müller. The liquid in the third tube is solution of common salt, containing one part of chloride of sodium in 200 parts of water. Having exposed and divided the pericardium of a frog, taking care not to open and divided the pericardium of a frog, taking care not to open the pleuro-peritoneal cavity, I make a sulp in the ventricle with sarp selsors, and allow some offithe of the No. I, and the rest to own the same quantity of blood. In tube No. 2 we have, of course, a reputition of Muller's experiment, the only peculiarity being that we have used the liquids in definite proportions. We throw the liquid on to a filter, taking care that it is made of strong, close-fibred paper. You will find that a very short time after the filtrate has present it is sufferned to the sum of the sum o tained at 100° Fahr. We shall first see what result we get at the temperature of the room, and then, if it does not gelatinise, the temperature of the room, and then, it it does not gelatinise, subject it to the higher temperature. In tube No. I we are following a method used by Denis.(a) By filtering a mixture of frog's blood with four or five times as much sulphate of soda, we obtain a liquid which differs from either of the other sons, we obtain a injund which direct from either of the bluer two filtrates in its not being spontaneously congulable. From the sugar-mixture we have a liquid which congulates immediately; from the salt a liquid which congulates after a time; but from the sulphate of soda a liquid of which the congulation is indefinitely postponed; the reason being that the two neutral salts exercise, though in very different degrees, a retarding effect, whereas sugar is indifferent as regards coagulation, and facilitates filtration merely because it dilutes the liquor san-

racutates iteration merely because it citizes as water does.

In the present instance we may satisfy curselves that the reason why the liquid does not consultate its that it is prevented by the sulphate of soda, by observing the effect of dilution. If the solution of soda with which we mix the blood is satisfied to the solution of soda with which we mix the blood is satisfied. rated, we may go on adding distilled water, even in considerable

(a) Denis, "Nouveaux Etudes Chim. sur les Substances Albumineuage 's Paris. 1856.

quantity. It is not until we have added about seven times its volume that the liquid becomes spontaneously coagulable. If, as in the present instance, the liquid used contains only one part in four of saturated solution, we have a much more striking result. Undiluted, the liquid does not coagulate, but the addition of a single volume of water is sufficient to bring about the effect for which seven volumes were required before. Now, saturated solution of sulphate of soda contains about 50 per cent. of the solution or suphate of some contains about so per cent. of the crystalline salt. It must, therefore, be present in a proportion of not less than 6 per cent. in a coagulable liquid, to prevent its coagulation at ordinary temperatures.

It is not possible to filter mammalian blood, for the cornacles are so small that they will run through the finest paper. we must, therefore, have recourse to subsidence. Here is a tube in which bullock's blood, which has been defibrinated by the process of stirring, has been added to one-half per cent. of sugar solution, and allowed to stand. You see how completely the corpuscles have subsided, and that they form a sharply-defined stratum at the bottom. Here, again, is a large beaker, containing the same blood diluted with ten times its volume of one per cent, solution of common salt, in which the subsidence is comcent. solution or common sair, in which the absolutence is com-plete. In the undiluted whipped blood you see no such sub-sidence, although it has stood quite as long; but in the other two cases the sinking of the corpuscles has been facilitated by the addition to the blood of a liquid of less density than the

liquor sanguinis.

It has been long known that, in the horse, coagulation of the blood takes place much more slowly than in other animals. The blood of the horse remains liquid even at ordinary temane blood of the force remains includ even a cortainary tem-peratures for nearly an hour. Here you see a glass jar, into which a horse was bled yesterday. The blood is coagulated. The cylindrical clot, which has scarcely yet had time to con-tract, and still adheres to the side of the glass at one or two points, is divided by a tolerably defined horizontal line into an upper colourless and a lower deeply-coloured part, the former being a little more than half the depth of the latter. In the other class, which contains bullock's blood, and is also coagulated, the clot is all of one colour. The meaning of the congulated, the cost is an of one cooled. The intention of the difference between them is, that in the one case the corpuscles have had time to descend through the upper stratum of liquid before it solidified, whereas in the other their descent has been anticipated by the formation of the clot.

The fact that in the blood of the horse the clot is formed more slowly than in other animals, renders it specially suitable if we desire to separate the corpuscles from the liquor sanguinis by subsidence; but, as you see, we do not even here accomplish our object. To succeed we must have congulation not merely delayed but prevented. For this purpose there is but one means available—i.e., cold. We have already seen how much temperature has to do with the process; for example, liquid which congulates at once when introduced into the air-bath, remains liquid at the ordinary temperature. The only process by which plasma can be obtained in an unmixed state is by subjecting the blood, as it flows from the animal, to a freezing temperature. We have attempted to do this in the large jar surrounded with ice which stands on the table, but I am sorry surrounced with lew winen stands on the tasks, but I am sorry to any not successfully. It is two-thirth fall of blood which the standard of the surrounced with the surrounced with a mixture before the blood was allowed to flow from the veins of the animal into the vessel, it was surrounded with a mixture of snow and salt, and that it has been kept in it ever since. If the experiment had been successful the blood would have remained liquid. In the course of a few hours the corpuscles would have fallen to the bottom completely, and the upper half of the column would have consisted of transparent, somemain of the column would have consisted of transparent, some-what viscous liquid, of the colour of serum, but differing from it in being congulable. As it is, I am able to demonstrate that the liquid in which the upper colouriess part of the clot floats, although not plasma, is yet not mere serum—that although it has lost some of its fibrin-forming constituents it has not lost all, for some of it which was placed last night in the air-bath has congulated.

We need not, I think, be at a loss for an explanation of the failure of our experiment, although it was performed strictly nature of our experiment, attendigm it was performed seriety according to rule. What we may presume to have hap-pened is this: the cylinder being somewhat too large for the purpose, those parts of the mass of blood introduced into it which came in contact with the sides of the vessel were suddenly frozen, while the rest remained liquid, and at a higher temperature. As temperature equilibrium was gradually restored, some of the frozen blood thawed, and consequently acquired a greater tendency to coagulate. Another time we shall use somewhat smaller cylinders, and probably not add any

salt to our ice, for unquestionably the rapidity with which freezing occurred was prejndicial to the result.(b)

OBSERVATION XIV .- ON THE CONDITIONS OF COAGULATION.

In the experiments we have been making, we have not only learnt how to separate the constituents of the blood mechanieally from each other, but have become familiar with one fact of great importance as regards coagulation-namely, that it is dependent on temperature; that at 0° C. it is indefinitely post-poned; and that at temperatures between this and that of the body, the delay becomes shorter as the temperature rises. We have also learnt the infinence of certain neutral salts as have also learns the immerce of certain neutral same as hinderers of coagulation, and have seen that their power of doing so varies with the strength of the solution. Another condition which we might illustrate experimentally is that of the influence of acid and alkaline reaction. The addition of alkalies or alkaline carbonates to any coagulable liquid prevents the formation of a clot; so, also, if blood or plasma is feebly acidulated with acetic acid, it loses its power of coagulating, but regains it if the acid is accurately neutralised. I content myself with the bare mention of these important facts, in order that I may at once direct your attention to those experiments which relate to what may be called the vital conditions of coagulation—i.e., to the so-often-repeated question, Why does the blood coagulate?

Fibrine is mainly distinguished from other albumens by the fact that it originates by concretion from the whole mass of coagulating blood, either in the form of a hyaline jelly, or as a meshwork of infinitely minnte fibres. The gelatinous form you have had several opportunities of observing. Its perfectly hyaline character is well seen when the coagulation of a drop of frog's blood is watched nuder the microscope. The other form is that which fibrine always assumes, sooner or later, in larger masses of blood, when congulation is not interfered with. larger masses or mood, when congulation is not interrect with. Here is some fibrine which has been prepared by merely washing in water the colourless upper layer of the coagulum of horse's blood. You will see that it is of almost snowy whiteness, and in the highest degree clastic. Under the microscope, you can readily satisfy yourselves of its reticular structure. When treated with very weak hydrochloric acid (a quarter per cent.), it swells enormously, becomes transparent, and eventually dissolves, but not until it has been transformed and eventually dissofvers, but not until it has been transformed into another albuminous body (systomin) by the prolonged is one which depends on its power of decomposing percuide of phydrogen. I place a portion of fibrine, which has been soaked for a few minutes in a solution of the peroxide, on a sheet of filtering paper, which has just been moistened with tine-ture of guaiacum. It will soon be edged with a border of blue, indicating that the guaincum is oxidised, and that ozone has been disengaged. No other albuminous substance exhibits this property.

You are already well aware that, in every act of coagulation, fibrine is produced by the combination of two substances, both of which are to be found in the blood corpuseles and plasma; that these two substances are closely allied chemically, and that they are both obtained from plasma by passing through it, after dilution with ice-cold water, a stream of carbonic acid gas. The only difference between them is, that one (paraglo-bulin or fibrino-plastic substance) is precipitated first; the other (fibrinogen) later, and after more copious dilution of the plasma with water. You know, also, that whereas serum con-tains only fibrino-plastin, certain other liquids of pathological origin contain only fibrinogen, and that these last although

organ contain only normogen, and that these the att attnoign (b) That transparent blood cangulates more readily than opaque blood, may be understood if we bear in mind that the corpusedes themselves contain the material out of which florine is formed in very large quantum terms of the contained of the contained

incapable of coagulating by themselves, acquire that power even when a trace of serum or any other fibrino-plastic liquid is added to them; for in the formation of fibrine the two generators, as they are called, do not take equal parts. quantity of paraglobulin which is required is a mere nothing compared with that of fibringen. Bearing, then, in mind that the blood contains at all times both of these two antagonistic principles, ever ready to combine, we are rather led to inquire why the circulating blood remains fluid than why it congulates when removed from the body.

The knowledge we at present possess of the whole subject is almost entirely founded on Professor Brijcke's well-known examous unurey founded on Professor Brucke's well-known experimental cessay "On the Causes of the Coagulation of the Blood," published in 1857. Of the many excellent experiments recorded in that essay, the following are among the most instructive :-

(1) 110 cubic centimetres of blood reveived from the vein of a living dog are introduced directly into an eudiometer over mercury. The blood coagulates, but no gas or vapour escapes.

(2) The arterial trunks leading from the heart of a tortoise are first tied, and, as eoon as the heart has distended, the venous trunks. The heart, full of blood, is then removed from the body, and suspended in a small flask by one of the ligatures, the end of which hangs outside, and is so arranged ngatures, the end of which nangs outside, and is so arranged that, on pulling it, the heart will fall to the bottom, and the blood escape. The flask is allowed to stand so long as the heart still continues to pulsate. The flask is then filled with pure hydrogen, and the ligature pulled. The heart falls, and that which is retained in the cavities remains fluid.

(3) Blood from the divided arterial trunks of a tortoise is collected in a test tube, and kept fluid by being surrounded with ice and salt. The heart is then filled with blood through with ice and sait. The heart is then filled with blood through a vein, with the aid of a pipette, all the other vessels having been tied. The pipette having been withdrawn, and the ligatures secured, the organ is suspended in air saturated with moisture. After twenty-four hours, the blood remains uncoagulated. This experiment may be varied without affecting the result if, instead of the heart, arteries or veins are used to

contain the blood.

(4) A small but closely-fitting glass tube is introduced into the pulmonary artery of a tortoise, which, with the rest of the vessels leading to and from the heart, is subsequently secured in such a way that the whole organ is full of blood. It is left in saturated air for twenty-four hours, at the end of which time it is found that there is no clot either in the heart or any of the vessels, but that the blood in the interior of the tube has coagulated.(c)

From these and other like results, Brücke was led to adopt those conclusions which are now generally received by physio-logists—namely, that when blood congulates nothing is either logates—namely, that when blood congulates nothing is either taken from it or added to it, and that its congulation is not to media with which it is in contact or relation, but rather to the instability of its constitution. The fibring generators it contains have so strong a tendency to combine, that the slightest interference with the conditions which normally surround it is sufficient to upset its equilibrium.

ON THE COLOURING MATTER OF THE BLOOD (HAMOGLORIN,

Hamatoglobulin, on Hamato-Chystalline).
The colouring matter of the blood is a crystalline immediate The colouring matter of the blood is a crystalline immediate principle, readily soluble in warm water and in west spirit, distinguished above all by the facility with which it is decomposed, either by acids or alkalies, the decomposition resulting in the production of hematin and an albuminous compound. The late it shall be able to demonstrate to you are the following the production of the state of the demonstrate to you are the following the production of the state of

lowing :-1. That it exists as such in the blood.

2. That although a crystalline body it is indiffusible.
3. That when subjected to the action of reducing agents it undergoes a change of colour identical with that which arterial blood undergoes when it becomes venous, and that the original 4. That when subjected to the prolonged action of acids and alkalies it undergoes a change of colour of a different nature,

due to the formation of hematin, which is permanent. OBSERVATION XV .- PROOF OF THE EXISTENCE OF HEMATO-

CHYSTALLINE IN THE BLOOD. That hemoglobin exists as such in the blood is proved by the

(c) Professor Brücke's original essay, written in English, is to be found in the British and Foreign Medical Review for January, 1857. It was submitted to the authorities of Guy's Hospital in 1866 in competition for the Astley Cooper prize.

simplicity of the methods which are employed for its preparation. It may be obtained from blood which has been rendered transparent by any of the methods I have to-day described, without the addition of any chemical reagent. In such blood the hæmoglobin is in solution; to induce it to assume the crystalline form, all that is necessary is to add to the solution gradually some other liquid, such as alcohol, in which it is not gradually some other liquid, such as alreaded, in which it is not validate. The specimen I move show you was obtained by self-additionally such as the specimen in the specimen blood of the horse, separated from the plasma by subsidence and decentration at freezing temperature, and well agitated with air. Ether, as you already know, renders the blood transparent. The mass of corpuseles to which it has been transparent. Ine mass or corpuseres to which it has been added changes colour, and an ethereal solution is obtained which may be rendered crystallisable by the gradual addition of alcohol. The quantity of alcohol which is required for this purpose must be judged of by the effects. It must be added so long as the precipitate which is first formed is redissolved -in other words, until the precipitate becomes permanent. As soon as this point is attained, the liquid will crystallise, if left to itself, especially if it is subjected to a freezing temperature and faintly acidulated with acetic acid. The crystallisable mass may then be agitated with ice-cold alcohol, again colleeted on a filter and washed with ice-cold water, and finally redissolved in water at a temperature of 40° Cent. On evaporating the liquid in cacuo, the material you see was obtained. It is not pure, but could be made so by repeated recrystallisation.

I have given you the simplest method by which hemoglobin can be obtained in quantity. But the mere demonstration of its existence as such in the blood is even simpler. In some animals the substance crystallises much more easily—as, e.g., in the rat and guinea-pig. Thus, in the guinea-pig, the solu-tion of blood in water will crystallise when subjected to a low temperature. Here is some guinea-pig's blood, which has been rendered transparent by driving through it chloroform vapour with the aid of a Richardson's pump. If we examine a drop under the microscope, we shall find that it is full of wellformed tetrahedral crystals.

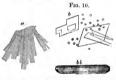




Fig. 10.—6, hiemoglobin from human blood; b, hæmoglobin from the blood of the horse, in the form of rhombic plates: the round bodies are altered blood corpuscles; bb, a prismatic crystal from the same; c, tetra-hedral crystals from the blood of the guines-pig.

OBSERVATION XVI .- INDIFFUSIBILITY OF HEMOGLOBIN. Hemoglobin, though crystalline, is indiffusible. This fact ratemographic transfer of the more and the state of the s septum is of parchment-paper, in the other of bladder. The outer vessel contains distilled water. Here there has been no diffusion, either through the parchment or the bladder. In the case of parchment-paper, it is known that hemoglobin is absolutely indiffusible, but it does pass to a certain extent through animal membranes, as could be shown by more careful experimentation

OBSERVATION XVII.-OPTICAL CHANGES PRODUCED BY OXIDA-TION AND REDUCTION.

The most interesting and important properties of hemo-

globin are those which relate to its function as a carrier of oxygen, the manner in which it combines with this gas and again sets it free, and the difference of colour and other optical properties which it presents in the two states of oxidation and reduction.

The form in which we are best acquainted with hemoglobin are form in which we are nest sequentives with memogracian is that in which it is combined with oxygen, so that hemo-globin and oxyhemoglobin (as it is called) are synonymous. In all solutions of hemoglobin which are freely exposed to air, as well as in arterial blood, the whole of the hemoglobin is in the oxidised form. Under the opposite condition, and in venous blood, the oxyhemoglobin is mixed with a variable proportion of reduced hemoglobin.

Excepting the fact that reduced hemoglobin is much more Excepting the fact that requeed memogroun is much more soluble than ordinary hemoglobin, the optical differences between the two are the only ones that admit of demonstration. These are—first, that venous blood and reduced solutions are dichroitic—i.e., they look red by reflected light, but green by

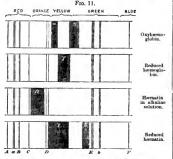


Fig. 11.—Diagram of the principal absorption spectra of the blood, showing the relation of the absorption bands to Frauenhofer's lines. The letters of the Greek alphabet on the bands are those by which they are

transmitted; and, secondly, that the tinge of yellow which corresponds to that part of the spectrum which lies halfway between the Jand & line is present in light which has passed through solution of oxyhemoglobin, absent in light which has passed through reduced solutions.

The first of these changes can be judged of without the aid of any lastrument. In one of these test-tubes I have a solution

of the blood which was rendered transparent by freezing; in the other a similar solution, which has been reduced by mixing the other a similar southon, which has been reduced by mixing it with sulphide of amisonium. If you compare the two, you will have no difficulty in seeing that whereas they look alike by reflected light, they are easily distinguished when held up together between the eye and the window. The difference in colour may also be judged of by the unsaided eye easily enough, but much more accurately if we use the spectroscope

The application of the spectroscope to the examination of absorption spectra—i.s., the spectra which are produced when the light which is admitted into the spectroscope has passed through coloured transparent liquids—is neither more nor less than a method of analysing colour. The optical facts which it enables us to estimate by precise measurement are the same of which we judge by the eye alone, the only difference being that our judgment of them is much more accurate. In this regard the spectroscope stands in the same position with other instruments of research, which do not bestow upon us any new instruments of research, which do not used whom as any new faculty, but only enable us to use those we already possess to greater advantage. We will now examine spectroscopically the two solutions we have already looked at otherwise. The light we employ for this observation is that obtained by causing a jet of oxygen to pass through the centre of a spirit-lamp flame against a line cylinder. This light is practically of the same nature as that of the ordinary oxyhydrogen lamp, the main difference being that the required hydrogen is yielded by the spirit flame instead of being derived from a reservoir. For our purpose, it has the important advantage that it affords ror our purpose, it has the important advantage that it shords a spectrum in which the soda line, which nearly corresponds to Frauenhofer's D line, can be distinctly seen, and serves as a landmark by which we may judge of the position of the absorption bands we wish to observe.

The observation you have to make is the following :- Placing the diagram before you, study that part of the spectrum which lies to the violet side of the sodium line. When the tube containing oxyhemoglobin is before the slit, you will see the dark bands in this region separated by a bright interval of

yellow-green. Of these bands one is close to the sodium line, the other somewhat further towards the blue. Fix, now, your attention on that part of the spectrum which corresponds to the bright interval, while you substitute the tube containing the reduced solution. You will see that an ill-defined band has reduced solution. I out will see that an in-demen count me-obscured the bright interval completely, and that the other two obscured the principal control of the control of the again examine it. The bright interval will respect, and the two oxyhemoglobin bands will be reinstated; but if you con-tinue the observation, the sulphide of ammonium will again deprive the hemoglobin, principal control of the control deprive the hemoglobin, principal control of the control of the sulphide of the control of the control of the control of the control of the sulphide of the control display the characters of reduction.

ORIGINAL COMMUNICATIONS.

CLINICAL NOTES OF THE VARIETIES OF IMPERFECT SPEECH PRODUCED BY BRAIN DISEASE.

By ROBERT DRUITT, M.R.C.P. Lond., etc.

Case 3.—Sudden Aphasia—Right Paralysis and Anasthesis— Slow Recovery—Letters from the Patient, showing his Condition, come accoracy—Letters from the Patient, showing his Condition.

Accourt 2, 1886, at 5 p.m. the Rev. C. G. F. staggered into my study, with unsteady gait, haggard looks, and mouth drawn to one add. I the beckoned, and evidently could not speak; so I said, "I see what is the matter; don't be alarmed. When did this come upon you "I he pulled out his watch, and pointed to X. He could say nothing but "yes" and "no, and often "yes" and "no, and often the pulled out his pulled out his content of the pulled out his watch, and pointed to X. He could say nothing but "yes" and "no, and often "yes" and "no, and often content of the pulled out his pulled o manpunca times terms, for he often said "no" when he meant "yes," and rice vorsi, and corrected himself by gestures. He brought a paper on which he had attempted to write my name and address, thus—"39 Dr. Druuit!" (for I then lived at 30s, Curzon-street). The head hot; pupils equally contracted and sensible; mouth drawn to left; right cheek flabby; tongue (much coated) freely moved; right arm feeble and benumbed, executing the little and view flames; which had been considered to the little and view flames. could not hold a pen to write. Made me understand, by taking out his watch, and turning over the leaves of a Court Guide, where he had been in the morning. (I learned afterwards that he went to the Horse-market in St. Martin's-lane; was taken ill as he was coming away; went into a draper's at the corner of New-street, and rested awhile; then managed to find his way into a neighbouring ehemist's, who took care of him for some hours; but, as he only spoke gibberiah, both the draper and chemist believed him to be mad; at last he hailed a cab, and, after many fruitless efforts to make the man understand him by means of the address he had written, piloted the driver by pointing with his stick through the front cab window, and so got to my house. He was terribly alarmed at the idea that the people in the shops considered him mad, but both the draper and the chemist, whom I called on a few days later, told me they thought he must be mad.)

It so happened that Dr. Semple called on me at the very time Mr. F. was in the house, so I called him into consultation. We gave the patient some sherry and soda-water, and kept him quiet, bathing his head with cold water. In a couple of inm quies, outing his nead with; only water, an accupie of this hand, so I took him home at 7.30. At 10 p.m. the pulse was 80; skin cool; tongue foul; belly tense; and he had recovered the use of all conventiumal forms of assent and dissent, as "thank you," "much obliged"; yet he could not originate any word he wanted, though he used these terms originate any word he wanted, though he used these terms. to express assent or dissent when the right word was found for Purgative of calomel and colocynth.

August 3, 9 a.m.—Has had tranquil sleep; when I asked, "Havo you been asleep?" he said, "I have been outside." Vesp.—Tranquil; bowels well moved; has dozed all day; pulse 72; tongue less dry; no complaint of uneasiness; head stronger; speech the same; nothing right but words of assent or dissent ; said he had had " no tea tea tail" - meaning "tea.

or dissent; said he had had "no too too tall"—meaning "ten."
th.—A comfortable night; ruppils a little base contracted,
the public of the publ in the day, Mr. Cartwright, the eminent dentist, an intimate friend, who dropped in, wrote on a slip of paper that he ought to make provision for his natural child. He took a pencil, made a A, and inserted the word "two" before "child," bursting into tears, intimating that he had two. Carbonate of ammonia, hock and seltzer water; good soup. Veep.—Dr. Semple in consultation; patient much the same; pulse feeble, and occasionally intermittent.

5th.-A good night; pulse 72, occasionally intermitting; is quite collected and calm ; wrote his name with a pencil firmly; came downstairs; arranged various things, but only spoke yes and so. All this time, the cutaneous anesthesia of the right side continues. He does not feel the point of a needle passed

side continues. The does not reet the point of a nectac passent across his right chest, till it just passes the middle line.

The patient was seen by Dr. Ferguson and Dr. Semple, but no entreaty or persuasion would induce him to stay at home and submit to treatment. So soon as he could go out, he went to sales, which he was very fond of attending; he looked ill, complained of headaches, and was slow in recovering his What came to him first were the names of objects; speech. What came to him first were the names or objects, but the links and connecting words were missing. He left town for Hastings towards the end of August; I saw him at that place in October, and next month he went alroad. After that I saw no more of him for years; only once, and then his the same of the saw in the same of t eech seemed slow, but otherwise not imperfect. I learned

that he died in 1869. The condition of his speech, during the three months following the attack, will be seen from the following letters which (with others of the same sort) I received from him at their respective dates. The printer of the Medical Times and Gazette has endeavoured to give their character, so far as can be done by type—engraving a fac simile would be too expensive;—but no type can give a full rendering of the blurred words, the un-certainty in the formation of letters, the uncertain number of pothooks to such a letter as m or n, the omitted words supplied

by interlineation, and the confusion of figures in the dates :-(No. 1.) Dear Sir I thank you t Mr. White and Bonati at 10 Whitahall I amunwell to attend Place and say Bussiness. I am happy, I am better Yours sincly Hastings 8th Octr 1856 (No. 2.) Dear Sir, Monday I go London, see you &c. Cannot speechless Yours sincerely Friday Evening, 10th Octr 1856. P S 10 Weeks to 11th Octr 1856. (No. 3.) My dear Sir. I shall be London next week, about 30th Octr Thursday I happy to say am I better Fours truly

Hastings Octr 26, 1856. (No. 4.) Rouen

Hotel D' Albian Nov. 30th 1856 France

Dear Sir

I am at Rouen, I go South-Heatth-Hretth-Health-

I am present, under French Physician, but power to write,

to read or to speak. Every word I find out in the Dictionary-My mind is good-

My Curate Rev. A. P. S -- always knows where I am-Wildbad and Gastein (Baths), Paralysis, for it-is good

Right side is stiff-and right arm.

The Physician says, I shall able, in speak about 8 days-I should died I if I been in England-

I found you and wife and Sister Law in D'Albion Hotel

Yours sincerely

PS. Being alone, I want a Companion to go South, as I forget French since IUness-

AN INSTANCE OF THE

INTRODUCTION AND PROPAGATION OF SMALL-POX IN A COMMUNITY, AND ITS ERADICATION BY STRINGENT

> SANITARY MEASURES. By A. L. ADAMS, M.B., Surgeon Major 1st Battalion 22nd Regiment.

At present, the following details appear to me worth recording:—1st, as examples of how small-pox may be conveyed from place to place; and 2nd, the desirability of a rigorous isolation of all doubtful or suspicious cases; 3rd, the importance of noting all deviations from characteristic or typical symptoms of the disease; 4th, the desirability of close supervision of the presons who have held intercourse with the infected, even during the period of incubation; 5th, the effects of panic in diffusing contagion; 6th, the imperious necessity of prompt and effectual measures to prevent the spread of the disease. The subjointed data were collected from either the personal observations of the author or those of Mr. F. H. Welch, Assistant-Singeron 22nd Regiment, and Dr. Armstrong, of Cok, with whom he was associated in what may be called a very successful attempt to stamp out small-pox addealy introduced

with woon in was associated in what may be called a very successful attempt to stamp out small-pox audiedn'y introduced into a community ripe for its reception, although for many months exempt from even one case of this rightful pest.

A girl, whom I shall call No. I centre of dispersal, attending a day-shool in the east of London. In a district where small-pox was prevalent, sickened and became the subject of a vesicular eruption, which the family Physician at first expected vesscuare crupaton, when the manny is repersual at first expected might turn out to be searching, whilst subsequently list resistual rangeot led to a belief that the disease was chicken-pox. At this time a gentleman, his wife, and daughter arrived at the house, and within a few days the latter and No. I became playmates. Soon afterwards the visitors left for Gork, where no case of small-pox had been recorded for many months. The daughter, No. 2, aged 10, vaccinated in infancy, became feverish on the third day, and had a few spots dispersed over the body, running quickly into vesicles, which disappeared entirely in a few days; so that, on arrival of the family at a hotel in Cork, No. 2, when seen by me, was simply somewhat indisposed from a rough passage from Bristol.

On the seventh day from date of departure from London, the mether, No. 3, was attacked with bilious vomiting, lumbar pains, followed by pronounced pustules of small-pox, mainly on the head, hands, and feet, the majority of the vesicles not being umbilicated, but small and quickly aborting. She had been vaccinated fifteen years previously.

A maid-servant (No. 4) was engaged at Cork on arrival, and

attended on the mother and slept with the daughter until the disease was pronounced to be small-pox, when she forthwith decamped to her home, where, in the course of a few days, she became the subject of modified small-pox. Not known whether

became the subject of modified small-pox. Not known whether she had been ever vaccinated. Care was taken to prevent any chance of spreading, so there were no radii from this focus. But a servant (No. 5) in the hotel volunt-cred to attend the lady (No. 3), and made her bed several times, and, in a few day, sfull lish, and went to her home in a very crowded and exceedingly flitby lane, where she was the control of the exceeding flitby lane, where she was the control of doned her, and the case was at once sent to the Fever Hospital

doned her, and the case was at once sent to the reversible, where she lay for weeks with confluent small-pox.

The attendant on No. 5 escaped without any symptoms

Returning to the main centre of dispersal, No. 3. The above Meturaling to the man center on unperess, i.v. o. are move-were not all the persons who were brought into close contact with her and No. 2, her daughter. The husband escaped, During the period of incubation in No. 3, and up to the ap-pearance of the pustules, she was often nursed by a last friend, whilst at the sums time the child of the latter was frequently handled by the daughter. No. 2. Let us see what took place. Whether or not the following should be classed as abnormal signs or anomalous varioloid poisonings acting on abnormal signs or anomalous varioloid poisonings acting on protected individuals, I shall not assert one way or the other; but the truth was that the child No. 6, 2j years old, well vaccinated in infancy, became feverish in a few days, followed by a papular eruption over the whole body. The mother, No. 7, previously vaccinated, and the subject of mail-pox in child-hood, had cold shiverings, followed by malaiss, intense bilious counting, with a marked hard, irregular, papular eruption on face, coming and going. She stated that on the second day of her attendance on No. 3 she experienced the characteristic smell of the disease. At the recommendations of the Medical attendants in charge of the several cases, most stringent precautions were carried out with reference to isolation, cleansing, drainage of the infected district, whitewashing, fumigation, and destruction of personal clothing, to which measures must be attributed the prevention of the extension of the disease, which fortunately occurred under such vigorous sanitary supervision; whilst had the imported cases taken place among the lower classes, and introduced into the insalubrious quarters of a crowded city, there is no saving what evil results might have taken place before sanitary science could have come to bear on the pest.

REPORTS OF HOSPITAL PRACTICE

N

MEDICINE AND SURGERY.

ST. BARTHOLOMEW'S HOSPITAL.

OPERATIONS.

Lithotomy (by Mr. Paget)—Removel of Breast for Cancer (by Mr.

"Holden)—Amputation of Leg (by Mr. Coole)—Resection of Etbow (by Mr. Thomas Smith).

WE had the pleasure of seeing the operations at this Hospital on Saturday, January 28, when some interesting cases were brought into the theatre. The first patient was a man, apparently over 60 years old, the subject of old bladder disease. complicated of late by the formation and rapid increase of a stone. Chloroform having been given, and satisfactory evidence of the presence of a large stone being forthcoming on sounding, Mr. Paget performed the ordinary lateral operation. making a free external incision. There was some unusual difficulty in securing the stone after the gush of urine which emptied the bladder, the forceps being changed more than once before the rather large oval calculus could be fairly grasped. Owing, apparently, to the depth of the perineum, further difficulty attended the introduction of the petticoated tube after the removal of the stone, and so the whole proceeding was more protracted than usual. When the man had been removed from the theatre, Mr. Paget addressed the students at some length, dwelling upon the more important features of the case. He pointed out that the stone, though large, might the case. He pointed out that the stone, though sages, sugar-fairly be classed with medium-sized stones, such as might be treated by lithortriy. These present at the consultation upon the case on the preceding Thursday would remember, however, why the cutting operation was preferred-namely, because the man had, for twenty years, suffered from disease of the bladder. Under such circumstances, it was well to adhere to the general rule laid down for stone cases-viz., that small stones are to be crushed, while large ones should be cut out; that either oe creased, while large ones should be cut out; that either operation is adapted to a medium-sized stone; but that, where there is much disease of the bladder, the cutting operation is to be preferred. Moreover, in this case, with the bladder discharging much pus and phosphates, and with a stone (erroneously judged to be soft by the sounding; but that was no matter) constantly increasing by fresh phosphatic deposits, a better chance was, on the whole, given by running all the

risks attending a severe cutting operation in advanced life than by subjecting the man to repeated crushings, in each of which the condition of the bladder would be probably further damaged, whilst now the free incision into the bladder and probable future washings out through that opening might tend greatly to relieve the vessical condition. As this latter affection had lasted for trenty years, whilst the calculus had been present for at most but two or three years, the meer riddames of the stone alone by lithottity could not have been ex-

pected to cure the older disease.

Mr. Holden next operated upon a middle-aged woman with scirrbus of the breast. The tumour occupied the greater part of the right breast, and some glands were enlarged and indurated in the axilla. Chloroform being given, an elliptical measurement of the right breast and some and the methy dropped down in one mass, a stout thread tied above them, and the whole cut away, Silk lignatures were employed, and before the wound was alressed a little carbolic acid solution was sponged into it. The gap was too large to admit of being sewn np, and the edges were therefore approximated by broad straps, and cotton wood piled over all. Mr. Holden remarked that at the consultation on the case, on the instances in which it was accessive to remove the whole breast, the disease being of nine months' duration, very rapid growth, and involving carly (in the fourth month) the axillary glands. He had found it necessary to remove the whole breast, the disease he are the sum of the sum o

mass away.

The next case was one of amputation through the lower third of the leg, for disease of the ankle, by Mr. Holmes Coote. An small at this Hospital, one of the dressers tooks advantage of the opportunity, and arrayed himself from head to foot in very apparent, as the sheet was removed unsoiled, as is generally the case, and the other assistants, who were more exposed to stary justs of blood, did not deem in necessary to be equally careful. Mr. Coote made two equal rectangular flaps, clipping off the sharp edge of this before brigging them together with wire satures. Mr. Coote dwelt upon the vasons through the bound of the sharp did not the sense of the sharp did not the star to the star of the sharp did not be sharped to the bound of the sharp did not seem to the star of the sharp did not be sharped to be consisted in securing a conical stump—t., smaller below than above—and therefore better adapted for fitting into the socket of an artificial limb. Mr. Coote then opened the diseased joint, and explained that the condition present, which was usually erroncously termed ulceration of earliage, was in reality an inflammation of the contiguous bone, with esparations beneath, as that with each movement the loosened cartilage grates upon the diseased bone, and gives rise to great pain.

The last case was one of recention of the elbow, by Mr. T. Smith. The patient was a man who, while rasing in a coal nine two or three years before, had struck his elbow against a projecting his of rock, and suppurative destruction of the joint ensured. Six months ago Mr. Smith reserted the elbow, but after a time the disease respected. Mr. Smith thought that he had removed too little bone at the first operation, and he would be guided now as to amputation or resection by the amount of bone disease present. The parts were exposed by saigel longitudinal incision, the ends of the bones supped off, some of the diseased and pulpy soft tissues snipped away, and the wound thoroughly sponged out with strong chloride of zine solution, carbolio acid oil being put over the wound when the limb had been arranged on a rectangular splint.

We noticed that the chloreform was administered by Mr. Bloram, Chloreformist to the (hospital, after a fishion now to us, and apparently as efficacious as simple. The bottle is graduated so as to show the number of minisms withdrawn, whilst the stopper is perforated and drawn out to a tine point. A few shakes of the bottle, pour out a little of the liquid on to a bit of lint half highly over the patient's face, and every now and spain the lint is rever how the state of the liquid on the state of the control of the state of the liquid on the state of the state of the state of the state of the liquid on the state of which has been well astrified with its results in some 2006 cases in which he has already employed it. Where a Clover's apparatus cannot be had, this method of Mr. Bloxam's seems likely to prove a very convenient stallstude.

ST. GEORGE'S HOSPITAL.

VOMITING OCCURRING AT INTERVALS FOR SEVERAL YEARS.

(Under the care of Dr. OGLE)

Thu patient, a girl aged II, ever since 3 wars of age had been achipet to attack of tronsiting, lasting from him to fourteen days, and which had never been absent an entire year. She had never had any fits, but had "eat her test with diarrhoss and vomiting." The child had the air and manners of one many years younger, and did not play about like others of her age. Her expression of face was somewhat vacant and unit-telligent; the whole of the left side of the face was somewhat on a smaller scale than the right side, as if there had been atrophy in early life [i from interference with the gauglionic nerve]. Pain in the abdomen was complained of, but no callargement or indication of mesenteric, person had been arised was found. Dr. Oct an include dating from the period of dentition. Much relief has been gained by aperients and hydrocyanic acid, and now four weeks of freedom from sickness have existed, and the patient is taking cold-liver oil.

TWO CASES, AT FIRST SIGHT NOT UNLIKE SMALL-POX.

(Under the care of Dr. OGLE.)

The first was that of a maid-serva was reasonable as supplied in the surface of the surface surface of the surface was reasonable as supplied in the surface which had appeared first on the arms, along with vomiting and shirewing. On admission, the skin was cool and pulse quiet, but on the mext day the temperature was a loa? and the tongue dirty. On the following day the temperature was only 90°. The rash quite departed, but four days after admission a number of papules, which subsequently developed into vesicles, about the lips and forehead cane on, and one at the two of them the content of the surface of the surf

The terminate was that of a girl, on whose face, shoulders, and neck were a number of spots looking very like the drying pustules of variola. On the shoulders were several others of a pustular character, with well-marked central depressions. These, however, had no inflamed bases. The patient complained of much pain at the back; this, however, on examination was found to be quite at the lowest part of the secrum. At first sight the case was superapparently in different stages, and had come on in successive crops, and as, moreover, the thermometer showed that the temperature was not increased (and this was so on several examinations), the conclusion was arrived at that the case was not variods, but a variety of impetigo. The patient was in a low, cachectic condition, but is doing well.

is some well. We also saw the following cases under Dr. Ogle's care;—
One of very severe Pneumonia, chiefly confined to the right side. Extensive herpes of the lips on the same (the right) side existed. Under stimulating expectorants, positions to the cheek, and a moderate use of gin (the patient being a conditional), the case recovered, and went out well. He has since been brought into the Hospital with small-post.

A case of Convulsions in a young key, due to overloading of the stomach, ceasing under the use of purgatives.

A case of Diphtheria brought into the Hospital, attended by croup-like symptoms. The urine, on the addition of utrie acid, almost entirely cosquiated. Death occurred in a few hours. The case of a woman brought in with Vomiting and Consipation. It was said she had fall of some kind. The

stipation. It was said abe had had "fits" of some kind. The urine was found to contain albumen. After being in the Hospital two days she became apathetic, and strahismus occurred from time to time. The pulse kept low and feeble, and the temperature also low. She sank and died, and after death, excepting some vascularity of the kidneys and a very

unusually large stomach, no morbid appearances were met with in the body.

We also observed two patients who had had severe Enterio Fever, both now recovered; one a boy, the other a grit aged respectively 17 and 19. In the boy's case, the lungs had some severely congested, and great dyspicous parts of the severely congested and brandy had been freely given, and annonia, subsequently changed for weak mineral acid. In the grif s case, great deadness on one side had existed. In hoth cases the evening tenrature had been in a very well-marked degree higher than in the morning; but in the boy's case, when convaloses one had set in, and castor of il on one occasion required, after its exhibition the temperature, which had been 5°6, suddenly and unexpectedly rose to 101°. It then subsided, and two days after was only 90°. This patient was on the point of going out when he was statcked by small-pox.

when he's was attacked by small-pox.
Dr. Ogle showed us four cases of Diabetes Mellitus in one ward, two being under his own care and two under that of his colleagues. Of his own cases, one was dying with very presenting symptoms. It admits that the induced by understood from Mr. Haward, of His diabetes induced by understood from Mr. Haward, of Hislaworth, under whom the patient had been, that this symptom of salivation had come on with the discoses, and remained throughout, no mercurp having been given. In one of his diabetic patients, Dr. Ogle alsowed us the varial diverted to one side, and decided inequality in the anterior arches of the palate. In died the control of the palate is a superior of the palate in the palate in the palate in the palate in the diedetion was to the opposite side. He noticed the fact of this deflection of the uvula being observed in two out of the four diabetic patients, alluding to the observations by Dr. Saunders, of Edinburgh, upon vertical hemiplegia of the palate in facial paralysis and in diabetes. He looked upon the fact of two out of four cases of diabetes cannot grave and the palate in facial paralysis and in diabetes. He looked upon the fact of two out of four cases of diabetes cannot grave and increases of the palate in facial paralysis and in diabetes. He looked upon the fact of two out of four cases of diabetes cannot grave and increases of the palate in facial case of diabetes, Dr. Ogle has had the medulla oblongata and other parts of the brain reserved for microscopical examination.

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Medical Times and Gazette.

SATURDAY, FEBRUARY 4, 1871.

THE SMALL-POX EPIDEMIC.

Ir is a sad thing—and, in the constry of Jenner, a thing far from creditable to us as a nation—that we should have to write about an epidemic of small-pox such as that from which we are now suffering. When we read about the havoe that smallpox was making among the population of Paris last year, probably there were some who were disposed to hug themselves in the belief that, at any rate, we Londouver had rendered ourselves safe, and that, with our vaccination laws, there was no chance whatever of a similar visitation reaching us. Yet, all the while, it was creeping stealthily on, and only awating the appropriate season to fall upon us. The middle of the year 1868 witnessed a sudden arrest of a comparatively mild epidemic. In that year (mostly in the first half of is) 1026 cases were admitted into the Small-pox Hospital at Highgate, and the total of the deaths from small-pox in London was 606. In 1869, only 493 cases were admitted into the Hospital, and no more than 273 deaths occurred in the whole of the metropolis. During the first nie months of 1870 alone, the admissions into the Hospital amounted to 835, and during October 144 cases were admitted, while cases were constantly refined on account of the beds being all occupied. The numbers admitted month by month were—

It is remarkable that the quarterly returns of the Registrar-General indicate only 405 deaths from small-pox as having occurred in the whole of England and Wales during the first quarter of 1870, and make no special mention of the disease as being prevalent in the second and third quarters. Nevertheless, the mortality from the disease was steadily rising in London, and now small-pox is widely sown throughout the country. During the first quarter the deaths in London were 99, during the second quarter 118, during the third 157, and during the last quarter 584. It was about the month of October that it began to be evident that we were doomed to an epidemie outbreak, but it was not until November that it began to assume serious proportions. That which is now upon us is an epidemie the like of which for severity has not been witnessed for many years. Commencing from the week ending November 5, the returns to the Poor-law Board of small-pox cases treated by the Poor-law Medical Officers in the metropolis were as follows:

During the third quarter of the year, the weekly small-pox mortality in London varied from 9 to 15. In the week ending October 1, these deaths amounted to 13. In subsequent weeks they were as follows:—

							1	DISTRICTS		
Week ending Deaths.					٠.	Went.	North.	Central.	East.	South.
Oct.	8.	1870		27		4	12	2	7	2
,,	1.5	**		13		2	4	2	3	2
22	22	**		17		_	4	1	10	2
19	29	22		21		2	5	1	12	1
Nov.	. 5	**		23		1	7	war.	13	2
**	12	**		40		1	7	1	22	9
11	19	12		45		1	14	-	26	4
**	26	**		41		2	12	-	23	4
Dec.	3	99		60		3	11	3	35	8
19	10	22		61		7	10	4	34	6
**	17	11		64		3	18	_	22	1
"	24	**		82		7	20	9	38	- 8
17	31	12		110		17	27	5	47	14
Jan.	7.	1871		79		9	16	6	36	12
**	14	**		135		24	39	10	46	16
22	21	**		188		35	45	12	67	29
"	28	77		153		19	35	16	48	35

The formidable characterof the quidemic appears from the fact mentioned by the Registrar-General, that the weekly average mortality during the period of five weeks of highest mortality in 1806 was 60; in 1867, 40; and in 1803, 67. The lant number was nearly reached by the second week of December, was exceeded considerably in the fourth week of December, and was nearly trebled by the third week in January. In reading the table given above, so far as the separate districts are concerned, it must be kept in mind that the deaths in the North District include all that occurred at the Small-pox Hospital at Highgate, and from December 3 all that occurred at the temporary Hospital, also, at Hampstead, where, moreover, additional accommodation was provided in the first week in

January. Making allowance for this, it is apparent that from the first the disease prevailed most in the cast of the metropolis, and it has continued to prevail most there ever since. Distributing the Hospital deaths among the district and patients came from, it was found that in the third week in January, out of the 188 deaths, 72 were furnished by the East District, 40 by the West, 30 by the North, 20 by the South, and 17 by the Central; the population (1861), in thousands and in the above order, being 671, 468, 618, 773, and 333. The West District was comparatively exempt until towards the beginning of December.

Small-pox is one of those diseases which recur in more or less distinct cyclical periods-its prevalence being capable of being represented by a waved line, in which the summit of each wave is separated from the neighbouring summits by an interval of about four years. The last epidemic wave was observed in 1866-7; it rises now again in 1870-71. Judging, then, by experience, a wave of epidemic prevalence was to have been anticipated; but the question remains unsolved why it should this time have risen so much higher than has recently been customary. It must have a cause: its discovery is the task which scientific Medicine has before it. The epidemic being due in 1870-1, it was further to be anticipated that it would begin to exhibit itself towards the close of the year. Some tables, published by Dr. Ballard in one of the Reports of the Medical Officers of the Privy Council, show that "the rule has been for small-pox to prevail least in the summer, to increase through the autumn and winter, and to prevail most in the spring of the year." He gives the months of March, April, and May as those in which the disease prevails most. If this rule holds good in the present instance, and unless some decided impression be made by protectionary measures upon our population, we have not yet seen the highest point by a good deal which this epidemic is destined to reach. At present there is no sign of early diminution.

Meanwhile, local and central sanitary authorities have plenty of work before them-and it may honestly be said that never before was an epidemic disease met more worthily. Something of this probably is due to general alarm, but more to the fact that the general administration of the sanitary affairs of London, at all events, is such as it has never been before. It is true it might be better. Some of the local boards of guardians and vestries alike have been slow to carry out the power which the Legislature has invested them with; but still there is the law which empowers, and there is the organisation through which it should operate. Probably fear and panic will stir up such as have hitherto been dilatory, and out of a wide-spread evil may arise some permanent good. Let us hope that this will be so. The Poor-law Board and the Medical Department of the Privy Council have both been active, the former through the Metropolitan Asylum Board in providing Hospital accommodation, and the latter in giving good advice to guardians and to vestries, and in urging both to the execution of their several tasks in the suppression of the epidemic.

At the commencement of the spidemic, the only Hospitial accommodation provided for London was at the Small-pox Hospital at Highgate, where only about 100 patients could be received. This was full in October, and the surplus of cases which could not be isolated were being trated at home, often in singlerooms occupied by a whole family, or in the metropolitan workhouses. The Metropolitan Asylam Board, having somebow lost a good deal of time in the erection of the permanent Hongonian work of the spidemic spidemic

Fever Hospital. Since that time, further accommodation to the extent of 200 beds has been determined on at the same site, and, as we write, the permanent Hospitals at Homerton and Stockwell have been opened for the reception of patients-and none too soon. The Small-pox Hospital at Homerton will accommodate 100 patients, and, should it prove insufficient for the Eastern and North-Eastern districts, as it probably will, it is determined to devote as much as may be necessary of the fever wards on the same site for the reception of small-pox cases. Similar accommodation is provided at Stockwell for the South London parishes, so that altogether we may estimate the number of beds provided for the poor suffering from small-pox at 700, with an elastic margin of fever beds for use in cmergency. But besides this, some of the parishes of the metropolis have undertaken local limited provision for themselves. This has been done to a varying extent by the parishes of St. George's, by the City of London, St. Olave's, Lambeth, Whitechapel, Hackney, Islington, and Shoreditch, and the vestry of Marylebone, acting under its powers conferred by the 37th section of the Sanitary Act. With the exception of the Marylebone Hospital, all these beds, about 180 in number, are provided for pauper cases; but besides pauper cases, there remain a large number for whom the vestries and nuisance authorities ought to provide some means of isolation. We allude to persons -especially young persons-in trade establishments, persons above the pauper class living in confined lodgings, servants, etc., who, when attacked, are likely to spread the disorder to those about them. Although no statistics are available as to the prevalence of the disease among the class above paupers, there is reason to believe that it is by no means inconsiderable, Among the pauper class there are sure to be some who will object to removal from home; but where the safety of the public at large is at stake, considerations of this sort can be permitted little place. The sanitary authority can deal with such persons under the 26th section of the Sanitary Act, which provides for the compulsory removal to a Hospital (anywhere within the metropolitan area) "of any person suffering from any dangerous, contagious, or infectious disorder, being without proper lodging or accommodation, or lodged in a room occupied by more than one family, or being on board any ship or vessel." Some persons have doubted to what extent this section is applicable, and whether under it a person lying ill with small-pox in a room occupied by the other members of the same family could be compulsorily removed. Everything depends upon the meaning of the word "proper": and in interpreting it, it must be kept in mind that the statute in which the section occurs is not one framed for the benefit of the sick, but for the protection of the public health. Viewed in this light, the word " proper " cannot mean proper for the individual as a sick person whose recovery is sought, but proper for him regarded as one capable of spreading disease to those about him. At any rate, Medical Officers of Health have a right thus to interpret the section until corrected by a competent authority, and it is their duty to insist, until a decision is given against them, on the removal to Hospital of small-pox cases so lodged as to endanger others in the same house.

In connexion with the subject of Hospital accommodation, we must mention the necessary provision for the transmission of patients to and from these establishments. There is no doubt that the 38th section of the Sanitary Act, relating to the use of public vehicles for the conveyance of patients, has been greatly evaded. Street cube have been largely employed for this purpose, and as it appears to be nobody's business to see that they are subsequently properly disinfected, it is not likely that the drivers give themselves any trouble in a matter which can only result for them in loss of time and money. It is satisfactory under this head to observe that directions have been given to take note of any public cab bringing patients to the Hospitale established by the Asylum Board. Several of the metropolitan parishes now have carriages of one sort or

another for the conveyance of their contagious cases. Those which have them not ought at once to provide them. One complaint we have heard made against the Hospital ast Highgate relates to the early stage of convalescence at which the patients are discharged, and the danger to the public of such persons spreading the disease on returning from the Hospital, either through the exvisie from the skin, or through the medium of the clothing. One such person was found the other day riding home in an omnibus from the Hospital. The new asylums will, it is hoped, retain their innates until all the scabs have fallen off, and until their persons have been thoroughly disinfected by appropriate baths. We are glad to observe that arrangements have been made for the dishing-term of the clothing in which they will return to their homes.

POOR-LAW MEDICAL OFFICERS AS ASSISTANT OFFICERS OF HEALTH.

No. II.

Ir may be gathered, from what we said in our former article upon this subject, that the functions of an assistant Health Officer, were it in contemplation to create such an officer, where a Medical Officer of Health already existed, might be enumerated under three heads:—1. The supply of information as to the presence of preventible diseases, and their supposed origin.

2. The performance of systematic sanitary inspections and the oversight of sanitary works. 3. The private inculcation of domestic sanitary presentions in individual instances of sickness in families.

We have said that we regard it as the duty of good citizens, whether they be Medical men or not, to assist in every way in their power in preventing the spread of disease in their respective neighbourhoods, whether by giving to the sanitary authority notice of its presence, or by the moral support of a good example and good advice to those who are more ignorant than themselves. And in the matter of information as to the presence of diseases-such, for instance, as small-pox or scarlet fever, especially when these newly break out in a locality for a time free from them-none can do the service that can be done by the Medical Profession. And this is in the highest degree true of those whose practice lies among the class of persons most liable to be first and most severely stricken. But we hold that no Practitioners are exempt from the obligation to this duty. It is mainly to its neglect, however-not a wilful neglect, but one arising more from inertia and want of consideration of the subject than anything else-that it so often happens that a Medical Officer of Health is in total ignorance of some severe outbreak, until it has made such way as to be beyond any man's control, or until his attention is drawn to it by the mortality it has occasioned. It would be an inestimable advantage if some official rapport were established between the Medical Officers of Health and the gentlemen who attend the poor at their homes, under which the latter would be placed under additional and distinctly recognised obligation to supply the early information which is so much required. It would not meet all the necessities of the case, but it would meet them in

great part.
Under existent arrangements, systematic sanitary inspections are in part made by the Health Officer himself, and in part by subordinate officers, such as Inspectors of Nuisances, whose rank in life and edneation are about on a level with those of an intelligent police constable. It is customary, also, for these men—who, after instruction and some experiences, come to do the duty tolerably well—to superintend the proper execution of sanitary works, such as house deriange and cleansing, disinfection, and so on. But there is a part of a thorough sanitary inspection for which those men are by education quite unfit, and which, if not done by the Health Officer himself, on whose time and thought there are a variety of other constant demands, is not done at all: we mean the investigant in into the health history of families, and an intelligent;

well-directed inquiry into the probable causes of deprayed health, or of the inroad of contagious sickness. Ordinary Inspectors can work in a groove; but slip them out of it, and they are helpless and uscless. It is here that a Medical Officer of Health would be assisted by Inspectors who had received a Medical education. The superintendence of sanitary works, and the erdinary inspections of nuisances on complaint, may well be left to the class of persons who now perform them.

The administration of advice as to domestic sanitary precautions, so far as official action is taken, is at present effected by means of printed papers in many places-these papers being drawn up by the Health Officer, and distributed where they appear to be needed, under his direction. This is not altogether a very satisfactory proceeding; for we fear that in many cases little trouble is taken to master the contents of the circulars, and in many others they are put behind some ornament on the mantel-shelf, and never read at all-at least, that is our experience. We should look for better results could a little instruction be given at the proper nick of time by word of mouth, especially if the person who gave it could do so authoritatively, and see that some attempt were made at its immediate application. Here again is an opportunity for the useful agency of Medical assistants.

It must, then, we think, be admitted that there would be a decided gain to sanitary administration if it were possible for the Medical Officer of Health to obtain the assistance of persons trained to Medical observations and inquiries. We would even go so far as to say that, if it could be in any way compassed, it would be a desirable change to replace the men now acting as Sanitary Inspectors and Inspectors of Nuisances by men who have undergone a Medical education. Such persons would quickly accommodate their minds to the duties of the office, and more readily grasp the principles on which not only the routine work of an inspector is based, but also those on which sanitary amendments of all kinds depend. We are far from undervaluing the services which can be rendered by a shrewd and experienced inspector of the ordinary kind, in whom training and long observation often appear as an almost unerring instinct. That Health Officer is fortunate who can boast of such an assistant. But such instinctive perception is the result of long habit, and is attainable by few. No bad substitute for it is the intelligent induction of a man who has been taught to observe, to store his mind by reading and study, and to think methodically.

Two plans of attaining this object may be suggested. The one is, that Sanitary or Nuisance Inspectors, who are required to devote all their time to the duties of their office, should be men who have received a Medical education. A district under sanitary administration would thus become an admirable school for the practical training of future Health Officers, and we could well believe that it might be worth while for many young men to take the office of Inspector as the first step towards devoting their lives to the practice of preventive Medicine. The tendency of the times is unmistakable. Preventive Medicine is yearly becoming more and more of a speciality, and promises to become a field of labour in which a comfortable competency may be attained. Such a salary as a hundred a-year would be for a young man as good a beginning as the majority of men make as ordinary Medical assistants. But still one of our desiderata would remain unsatisfied -the early information of outbreaks of disease; nor would such a Medical Inspector possess the advantages of the Medical attendant on the sick, in directing, enforcing, and superintending the use of domestic precautions.

The other plan is, to utilise the present Poor-law Medical Officers, and to make them also assistant Officers of Health. There is this objection on the fore-front of the schemenamely, that already these gentlemen are, for the most part, well occupied, and that it would be impossible for them to undertake the systematic sanitary inspection which the Medical

Officer of Health would require them to make. They would be able to devote but little time to such duties, if merely made supplementary to their public and private practice. On the other hand, there would be this advantage-namely, that they would be in a position to give the earliest notice of the outbreak of contagious disease in places where such diseases spread most rapidly, and to enforce the immediate use of the necessary precautions against their extension. Moreover, by associating them officially with the Medical Officer of Health, uniformity of practice might be ensured, and the Health Officer would be saved the annoyance, and sanitary practice the obloquy, arising out of conflicting views in matters of detail. Even now, however, it is not to be forgotten that the Medical attendant on the poor is not absolved from giving advice upon such matters to the best of his ability. But this part of his duty, as the attendant upon the sick, is not taken into account by the public, who look upon his functions merely as curative. They regard him as having duties to the sick poor, but in no respect as standing between the sick poor and themselves, and protecting themselves from the contagious maladies generating in a lower grade of society. Yet this is the real position of a conscientious Poerlaw Medical Officer; and it ought to be recognised and made the best of.

To sum up, now, the views we hold upon the whole question. What we think we ought to see is this (at any rate, in Loudon and towns of sufficient size) :- A Medical Officer of Health exercising supreme power of direction and control of sanitary administration, and having for the work of systematic inspection and supervision of sanitary work a staff of men educated to the Profession, giving up all their time to their dutles, and looking forward to advancement in the practice of preventive Medicine; having, also, in official relation with him, the Medical men appointed to act as the attendants upon the sick poor under the Poor-law system of the country. The sanitary functions of these gentlemen should be: to give immediate notice to the Medical Officer of Health of every case of contagious or preventible disease which comes under their notice; to inquire into its origin; and to take the necessary steps to prevent its spread in accordance with general instructions, or such as naturally suggest themselves as arising out of the individuality of the case. Certain duties of a statistical nature might also be imposed fairly as a part of a general system for the registration of sickness. And all this should be taken into consideration in the salary of the Poor-law Medical Officer. We do not think that it would be at all desirable that his salary from the Poor-law authorities should be supplemented by the sanitary authority. It would be better that the salary for the curative part of his work should be paid by the local authority, as at present, but that, this being determined, the supplementary payment should be made by the central Poor-law authority, whose officer he now is, and whose officer he would still alone continue to be.

SEVENTH ANNUAL REPORT OF THE CORONER FOR THE CENTRAL DISTRICT OF MIDDLESEX, FOR THE YEAR ENDING JULY 31, 1869. BY EDWIN LANKESTER, M.D., F.R.S.

Undergraned by that which would have daunted a less carnest and indefatigable public officer, Dr. Lankester is again in the field, urging upon the Legislature and the public reforms and improvements in the Coroner's Court which every unbiassed person must regard as of the utmost importance to the safety of the public and the proper administration of justice. Dr. Lankester says-

"Whilst thus again recording my annual experience, I cannot but regret that I have so little evidence to offer of any manifest improvement with regard to those occurrences which, in a civilised community, may be fairly looked upon as preventible. During the seven years to which my reports relate, I am not aware that in any one instance have measures been adopted for the prevention of acknowledged evils, and which are obviously under the control of local or general legislation."

He then proceeds to show, by tables and other ways, the number, nature, and districts of impnests; the general causes of death; of the inquests held all over England in the years 1860 and 1868, distinguished under the different verdicts; the numbers under each verdict for each of the five years preceding 1868, with the average of the seven years preceding 1868, with the average of the seven years preceding 1868; it be sexe and the ages of persons on whom inquests were held in each of the years 1869 and 1868; the total costs of such inquests for fourteen years past; and other tables of great interest, both as regards statistics and crime. Upon two points of great importance he enlarges—viz., infanticide and drunkenness.

With respect to the first, he says that the tables at first sight would seem to prove that infanticide was on the decrease; but this he shows, we think conclusively, is erroneous. Thus, he contends that in a vast number of cases in which a verdict of infanticide should have been returned by the jury, the real verdict was in nearly 3000 cases "found dead." This open verdict, Dr. Lankester properly explains, is liable to frustrate the ends of justice. If in most of these instances a verdict of wilful murder had been returned, further inquiries might have been made, with the effect of establishing a criminal charge against offenders. This would not involve the coroner's jury in any responsibility they should not accept, for the supposed criminal before trial would have to be taken before a magistrate. and the circumstances fully investigated. He shows, by a reference to the verdicts arrived at by the juries in central Middlesex of "wilful murder," in cases of newly born infants " found dead" in the streets, that if similar verdicts were given by the juries throughout the country, the cases of infanticide would reach the alarming number of 2000. Dr. Lankester observes-

"These remarks will, I trust, show the necessity of another column being added to the returns in question (the Judicial Statistics), in order to show the number of exposed newly-born children on whom inquests have been held during any given year."

He then shows, by figures of unquestionable accuracy, the fearful number of inquests held on infants born illegitimetely, when compared with those held on ehildren born in wedlock, and how this proportion diminishes in a direct ratio with the age of the children.

The subject is one of the greatest interest and importance, and we trust some legislative enactment will be carried ont respecting it.

Dr. Lankester has introduced into his table of causes of death those instances in which it clearly resulted from "excessive drinking;" but he justly observes that if all the cases in which diseases of a fatal character resulting from drink were properly attributed to that cause, then the verdicts of death from excessive drinking would be very numerous. We content ourselves on this occasion by confining ourselves to the two points to which we have referred in Dr. Lankester's able report; but we shall recur to it on a future occasion. It has been said that no railway reform quoad for the safety of passengers would be carried out until a bishop had been sacrificed; we may observe that the state of our streets in winter, particularly after a fall of snow, will never cease to be a disgrace to us, and a source of danger to the public, until the County Coroner succeeds in getting a verdict of manslaughter against some recalcitrant householder who has neglected to have the front of his house properly cleared after a snow-fall, and a fatal accident has been the result. The Coroner for Central Middlesex has published his determination to urge upon a jury the righteousness of such a verdict under such circumstances. Should such a verdict ever be returned, Dr. Lankester will become the greatest and most nseful "scavenger" of the time.

THE WEEK.

TOPICS OF THE DAY.

THERE was a meeting of the Sub-committee appointed to arrange the scheme for the Conjoint Examination Board, on Toneday last. We hear that considerable progress was made in the matter of apportioning the nomination of examiners in the different subjects of examination to the three Medical Corporations. The next meeting of the Committee is to take place on Monday usxt.

In our law report to-day we publish a report of the eat amination of the case of a Mr. Gerard, a private teacher of classics and mathematics, who has been committed by the magistrate at Bow-street to take his trial for conspiring with a printer named Reuben Newport to steal from the printer employed by the Apothecaries' Society a proof copy of the questions set in the last preliminary examination. Too much credit cannot be given to the officials of the Apothecaries' Society for the successful manner in which they have brought the offender to justice. The "grinder" was taken by the detective police officer with the stolen paper in his hand, and the printer's man, who had been bribed to obtain the paper, but who most honestly had at once revealed the game that was being played to his employer and to the officers of the Apothecaries' Society, was there with the bribe of £10 in his hand, which the moment before he had received from Gerar I. Nothing could be more complete than the proof. There is much reason to believe that the same practices have been carried on for the last two or three years by Gerard in reference to the examination papers of other institutions. There have been rumours that the preliminary examination papers of the College of Surgeons have been obtained for the nse of candidates. It is pretty well known that the attempt which led to his arrest was not the first which he had made to get possession of the examination papers of the Apothecaries' Society. To prevent the repetition of such practices, the authorities of the College of Surgeons have already put in practice a system of lithographing which will make them simply impossible. The questions are written by one of the officers of the College on lithographic paper; they are then taken, by the same officer, to the lithographer, where they are printed from a stone in his presence, and the stone is then cleaned. The copies are, therefore, never in the hands of the lithographer, but as they come from the stone they are received, one by one, by the College official. An equivalent plan, we believe, is employed at the University of London, and we have no doubt some such means of prevention will be adopted by all other examining boards.

We are glad to observe that on the motion of Mr. Hepwort! Dixon the London School Board have resolved-"That it is highly desirable that means should be provided for physical training exercise and drill in public schools established under the anthority of the Board." Unlike some of the members of the Board, we agree with Mr. Hepworth Dixon, that physical training is of the first importance to the rising population, especially of our large towns. The experience of all masters of great public schools has shown that physical training to a high degree is not incompatible with mental culture, but that, on the contrary, the one may be made directly subservient to the other. Germany has set an example in this respect, and given a lesson which we cannot afford to disregard. We are also very glad that the amendment of Mr. Lucraft, which would have omitted the word "drill" from the resolution, was negatived. We do not wish to see the English turned into a nation of soldiers; but the habit of acting under command in combination, which the word drill implies, is in these and in all times a valuable acquisition for a free people.

In reference to the "Direct Representation of the Profession" scheme of the British Medical Association, and the analogy which Dr. E. Waters has attempted to draw between .

the members of the Medical Profession and the members of the University of Cambridge, a correspondent reminds us that the representative of the University of Cambridge in the General Medical Conneil is elected by Convocation, but that only those who are present at the meeting of Convocation have a voice in the election. There is, therefore, really not the slightest comparison to be made between the two cases. There is nothing like a direct representation of the great body of the graduates of the Univer-sity of Cambridge in the Medical Conneil. Dr. Waters suggests that gentlemen who will pass the conjoint board, which is now being arranged, will be affiliated to no one of the Modical authorities. This is a mistake; they will receive at their option the diploma of one or more of the English Corparations, and, should the representation of the Medical Anthorities be put on a broader basis, will have the same electoral rights as any other Medical men holding the same diplomas.

Professor Erasmus Wilson commenced his course of Lectures an Dermatology at the College of Surgeous, on Monday last. In his first lecture he gave some demonstrations of some of the beautiful models and preparations of skin diseases with which he has enriched the Hunterian Museum. The second lecture was on Eczema. The last lecture will be delivered on Friday next.

We are afmid that some of our patients who have sought a refuge on the shores of the Mediterranean from our Siberian winter, have not gained much by their change. A writer in the Times, who dates from San Remo, on January 25, thus gives his experience of the sump South:—

"Sail Remo, mp present home, is said to be the balmiest, samiest spot and present balmy, samp Riviera. A half-moon of olive-chal hills shelten, and the sample spot of the blue Robinstraman. Balming open to the soft breezes of the blue Robinstraman. Balming open to the soft breezes of the blue Robinstraman and the orange gardens are yellow with abundant fruit—in fact, it constitutes a very obtaining

eq scine, which only requires to be made perfect by the dilition of myself reclining in the sunshine, lulled to lazy sleep by the murmuring splash of the calmest of sens, So far Sar. Remo, in the eternal fitness of things; and such was the growing picture that consoled me en route as I endured the agonies of sea-sickness and all the weariness of travel. Now, let me tell of the realisation. I arrived in drenching rain some weeks ago. Four horses dragged me and my belongings for two days along the Cornice road from Genea, over hills and slong precipices, in driving mist and rain, with the roads one mass of mud, until I thought the most glorious drive in Europe as great a bore as a crowded street in the heart of the City. For days I only ventured forth when health demanded fresh air, and despair made me endure a vapour bath above and a mud bath below. The day of the great eclipse saw a leaden cloud stretched from horizon to horizon, and sun and sky were alike shut out from view. Then came a brief spell of describul sunshine, tempered by bitter winds, and only to be followed by heavy snow. There was a kind of humour in the sight of grange trees heavy with snow as well as yellow fruit, and palm trees looked absolutely ridiculous in their wintry garment of white. This snow melted to make place for fresh, which still whitens the tops of the hills around, and morning after morning I broke the ice on the pools that are dotted about the shore.

"This agreeable phase of a southern climate was uncoosed, last week by another form of bad weather, that had, at any rate, the charm of excitement and novelty. One morning a greak wind spragar gu from the south, and the son soon ran high. By midday it blews a gale, and by night a storm, and the waves came tunbling into shore with Atlantic force. It is a source to the source of the source of

the rest. No lives were lost, the men escaping by ropes to the shore, but two of the ships have since broken up through the violence of the waves. The prices and religious conference of the town came in solenn procession, "with bell and book and candic, bearing a huge crucits, which they planted by the edge of the see, while they can the blessed bread into by the edge of the see, while they can the blessed bread into you have been proceed that the storm should coses. When the procession returns of the thread they are the procession returns the p

"After the storm came a calm, and with it a sunny warmth that brought content for a while to my grumbling spirit. But it is now raining again, and a two days downpour seems only to be the recommencement of the weather programme for the season."

POISONING BY CHLORAL HYDRATE.

A DEATH from an overdose of chloral hydrate is reported from Northamptonshire. The rector of the village of Whittlebury had suffered from sleeplessness, and had adopted the plan of dosing himself with narcotics-a practice we can never sufficiently condemn. Have not men yet read De Quincey's "Opium Eater"? Latterly he had used chloral; he had gone to bed one night in good health and spirits, apparently taken an over-dose of this narcotic, and failed to wake in the morning. having died during the night. The death is put down to hydrate of chloral, but there is no proof that the drug was the immediate cause of his death, especially as the quantity taken is unknown. It is at least possible that the unfortunate man may have been suffocated during his lethargic sleen. We say this, not because we think chloral an innocuous drug-quite the reverse, as we shall prove presently it is a most dangerous one to be in the hands of those unskilled in its use-but because there seems to have been no evidence of the immediate cause of death.

That chloral hydra to is dangerous, may be deduced, among other things, from a report in the New York Journal of Psychological Motitions (Januáry, 1871), just come to hand, wherein Dr. Needham records a case of fatal cerebral congection favoured or induced by repeated doses of hydrate of chloral. The patient was a lady, exceedingly nervous, who had been subjected to a great variety of treatment, apparently marxailingly. At last chloral hydrate was given in cumulative doses—six in all, of thirty grains each. The sleep jinduced became so prolonged and deep as to alarm her attendants. Every attempt was made to rouse her, but in vain, and she sleep to death. The cerebrait vessels were concrously congested. The patient had been taking bromide of potassium for some time before.

In one of our metropolitan Hospitals a fatal issue has also followed the exhibition of a large dose of chloral; but as the patient was in an exceedingly exhausted state, the result of a severe operation, the death could not absolutely be laid at the door of the chloral. In Philadelphia, a womant swallowed an enormous quantity of the drug (460 grains, it is believed). The symptoms were very severe, but prompt measures were taken, and she recovered.

In one of our provincial Hospitals we saw a patient who had very nearly died of an overlose of chloral; his tongue fell backwards, and his soft palate was paralysed. He also was well taken care of, and recovered perfectly.

WATER SUPPLY OF THE METROPOLIS.

A DEFIVATION of the Association of Medical Officers of Health had an interview at the Home Office, on Thursday, with Mr. Shaw Lefèrre, Under-Secretary of State, at that gentleman's request, to give him information as to the details of the water supply of London. Dr. Dutit (President of the Association), Drs. Letheby, Vinen, Tripe, Stevenson, Aldis, Lud, and Sutton were amongst the deputation.

SMALL-POX AND PITTING.

THERE is nothing very particular to be noted with regard to small-pox, beyond a slightly diminished mortality, with an increase of sickness. But there is noticeable a most mischievous activity on the part of the Anti-Vaccination League, the fruits of which are almost daily to be observed in the police reports. On the other hand, we have heard of a proposal to limit the eruption to certain portions of the body, which is at least worthy of attention, the more so that it has been formerly tried with considerable success. Dr. Archer Farr, of the Waterloo-road, has in several cases endeavoured, and to a great extent succeeded, in localising the eruntion on the abdomen; the face, which is ordinarily attacked most virulently, escaping almost scot free. The idea is not now, and although we cannot at the spur of the moment recall the name of the author, we would be peak for him the priority which is his due. The theory is this : a patient suffering from the incipient symptoms of small-pox is subjected to the action of some counter-irritant. Tartar ometic was formerly used; Dr. Farr, we believe, uses turpentine; one of Rigollot's mustardleaves would be better than either. The site commonly selected for its application is the chest and upper part of the abdomen, and the irritation thus applied has the effect of inducing the appearance of the eruption on that spot at the earliest possible period-that, in fact, in which the face and hands are usually attacked and bear the brunt of the onset. If the eruption is to be mild, instead of spending its force, therefore, on the parts of the body usually exposed, it may be induced to do so on those constantly kept covered, and disfigurement consequently avoided. When, however, the eruption is likely to be confluent. as in unvaccinated persons, we question if it would prove useful. Neither, on the other hand, do we think it would prove injurious if undertaken at the very commencement of the disease. If too late, the practice would be likely to aggravate the eruption at the spot to which the irritant was applied, and might prove dangerous. Anyway, the plan is well worthy of a trial, provided due care be exercised.

CERTIFICATES OF DEATH FROM SMALL-POX.

As considerable difficulty is experienced in London in obtaining relabels information as to the proportion of deaths from small-plane of the proportion of machine persons respectively, it is suggested that "Medical men should add to their certificates of the came of death in casee of small-pox, 'vaccinated' or 'not vaccinated,' as the case might be, so that the returns might be perfect."

LIME-WATER AND ITS DEADLY EFFECTS.

Even the simplest and most harmless remedial agents require to be administered with judgment, and prepared with a certain degree of exactness, to prevent their action being fraught with danger. This has been lamentably illustrated by a case which has just occurred in Birmingham. A patient was recommended by his Physician, amongst other things, to take a certain quantity of lime-water daily, but he was not told, so we are informed, how to get it-whether he was to buy or make it for himself, which is often done upon proper instructions being given. The patient straightway procures some lime, and mixes a lump with water, stirs it, and swallows the thick mixture; in a few honrs afterwards, acute symptoms of gastritis come on, and he dies from the effects of the baneful potion, which, at the inquest, was pronounced to be the cause of death. This case certainly points a moral from which we may all learn a useful and practical lesson, and it is this: always take for granted the complete ignorance of patients concerning the nature and properties of drugs, and never recommend them to be their own chemists, but tell them to apply to those whose legitimate business it is to supply them.

PARIS.

THE capitulation of Paris presents for consideration three points of supreme importance as regards the health, not only of the inhabitants, but of all with whom they may come in contact-namely, the revictualling of the city, the departure from it of large numbers of the sufferers from the siege, and the prevention of the spread of infectious diseases by the emigrating population of Paris among hitherto healthy communities. The revictualling is by all accounts being carried on with great activity, and as quickly as the broken railways and obstructed roads will admit. The comparative facility of getting live-stock into the city is, of course, being taken advantage of, but we have not seen any allnsion to the means of transport for other articles of food, which a herd of oxen or oven sheep might supply. We trust that the idea of utilising the live-stock in this way may ere this have occurred to someone on the spot who may have the opportunity of putting it into practice. We shall doubtless shortly hear of large numbers of women, children, and invalids hurrying from the scene of their prolonged sufferings to more peaceful districts. The consequent diminution in the number to be fed will reduce the task of revictualling; but such an exodus raises the question as to the advisability of vigilant precautions being enforced, even by quarantine if necessary, but certainly by disinfection of the persons and clothes of those who may be convalescents from contagious diseases, and the isolation, as far as may be practicable, of persons still suffering from such diseases, so as to prevent their spread in France, or the exportation of fresh centres of contagion for dissemination in this country. Cno other word of caution we consider appropriate to the occasion. and that is, that nothing but the most urgent necessity should induce anyone to enter Paris during the armistice. Many works or months must vet clapse before Paris can be considered a safe place for sightseers. Contagion will lark in the streets and houses for many a day after the departure of the German invaders. It is highly probable that the projected triumphal entry of the victorious army may be abandoned from sanitary as well as from political reasons.

DISGRACEFUL STATE OF A CEMETERY.

Mr. I. J. Ixrx writes to the Yorkshire Post of a disgra cful scene at the funeral of an old Crimean sergeant, at the Burmantofts Cemetery, on Wednesday last, in consequence of the offensivo and dangerous effluvia from decomposed hunan remains which filled the air. The cause assigned for this dangerous nuisance was that an adjoining grave had been "accidentally" encroached upon, and the contents of the decomposing matter had escaped into the nowly dug grave. Sorely there can be no excuse for such a distressing occurrence, alike dangerous to the mourners, spectators, and officials. Such an emanation of poisonous air might bring on attacks of cholera or typhus fever, and there are many cases on record where fever and cholers have been produced and proved fatal from breathing poisonons air at funerals. In fact, the danger is so great that, in order to prevent it, and check carelessness and desceration, the law of the land has appointed inspectors of burialgrounds around the metropolis. Precautionary measures ought at once to be taken to prevent a serious nuisance-or "accident." as it was termed.

MR. WANKLYN'S SPONTANEOUS CHANGES IN MILK.

Mr. WANKLYK continues, in the pages of the Milk Journal, to propound his seeming paradox of the spontaneous changes in the specific gravity of milk. He asserts, for example, that newly-drawn milk first undergoes contraction, so that its specific gravity may be raised from 1020 to 1300; but that, during the next few days, it undergoes expansion, so that its specific gravity may fall to below 1000. Mr. Wanklyu is so able an experimenter that he no doubt will soon prove the fact of the change of bulk slid by a side with the change of weight.

THE PEWALE MEDICAL SPUDENTS

BALLED in their endeavours to secure an entrance into the Royal Infirmary at Edinburgh, the female medicals and their supporters have turned their attention to another institution which they think may be made to suit their purpose. A little beyond the new site of the Royal Infirmary is a very neat little Hospital called the Chalmers Hospital. The building is up; completely filled, and it would readily admit of expansion. Upon it, therefore, the supporters of women's rights have cast their eyes; and if there is to be such a thing as female Medical education, we do not see much harm in their attendance on the practice of the Hospital, if male students and male patients are to be excluded. Dr. Heron Watson, the Surgeon to the institution, is favourable to the scheme of female education in Medicine, but the Physician, Dr. Halliday Douglas, is opposed to it. We shall see in course of time whether the ladies will be strong enough and pertinacious enough to carry their point.

DR. LETHEBY'S TWENTY-FIRST ANNUAL REPORT ON THE SANITARY CONDITION OF THE CITY OF LONDON.

We have received Dr. Letheby's Annual Report, although too late for extended notice this week. It contains the history of the births, deaths, and marriages, the sickness, and the sanitary work in the city; but the drier statistical details are everywhere noted with interesting facts and observations of a thoroughly practical stamp. One curious point noticed—and our readers may remember that Dr. Barnes once called attention to these columns—is the constancy of the total number of deaths from zymotic disease, though the titers vary; "each year has its special opidemic, yet in the aggregate the total mortality from all forms of zymotic disease remains about the same."

GRAND MEDICAL MILITARY FUNERAL AT WOOLWICH.

On Tuesday His Royal Highness Prince Arthur was present at the funeral of Staff Sargeon Alexander McArthur, M.D., of the Herbert Hospital, who died suddouly at Shooter shill, and was buried with military honours at Plannstead. The deceased Physician, who was 44 years of age, had retired to rest in good health, and was found dead in bed by his regimental severant next morning. An inquest was subsequently held, the post-mortem showing death to have been caused by this case of the heart. He was much respected, and the tribute paid to his memory by the presence of Prince Arthur at his funcal is gratifying to the whole garrison.

PROFESSOR HALFORD'S CURE OF SNAKE-BITE.

Tau Mcliourne Argus of December 5 contains two additional cases illustrating the efficiency of Dr. Halford's remedy for snake-bite. In one case, the patient was a boy, 11 years of ago; the other a shepherd. In both instances the effects were immediate and satisfactory, a perfect our following.

THE REGISTRAE-GENERAL'S QUARTERLY RETURNS. THE Registrar-General says of Brighton-

"Brighton has been unhealthy; the deaths exceeded the averaging his beautiful properties by 52. There were \$1 deaths from small-pox, 39 from the properties of families attacked by, or convolution of the practice of families attacked by, or convolution of the practice of families attacked by, or convolution of the practice of families attacked by, or convolution of the practice of

unless due precaution is taken; thus, the registrar of Wells, Norfolk, states that the girls affected at a school in that town were dispersed, and were the means of spreading the epidemic, from which three deaths occurred in the parish of Binham."

FROM ABROAD.—POPULATION OF BELGIUM IN 1869—PROFESSOR BILLBOTH'S LETTERS FROM THE SEAT OF WAR.

According to the Annuaire of the Brussels Observatory, published by M. Quetelet, the population of Belgium at the end of 1869 amounted to 5,021,336 souls; that of the provincial capitals being 637,272, Brussels having 176,706 inhabitants. The urban and rural communes having populations of more than 5000 had a total population of 1,889,488, and those with less than 5000 a total of 3,131,848. The births in 1869, exclusive of stillborn children (7461), amounted to 91,427, and the deaths, excluding the stillborn, were 58,597-being an excess of 32,830 births over the deaths. The marriages amounted to 37,134, and the divorces to 82. The illegitimate births, exclusive of stillborn (786), numbered 11,181. During the year there was 1 birth to 31 6 inhabitants, and 1 death to 45 8. There was 1 female birth to 1.06 male, and I death to 1.45. In the towns there was 1 illegitimate birth in 9.4 births, and in the rural districts I in 20.9. In 1869 there were living II persons born in 1769, and persons born before 1800 amounted to 20,488.

Writing from Frankfort, on his way home, Professor Billroth again touches on the topic of the wooden-shed Hospitals (Baracken), having, since the letter we last noticed was written, had opportunities of examining such of these structures as were raised at Carlsruhe, Heidelberg, Darmstadt, and Frankfort. At Carlsruhe there was a "monster" Hospital of this kind at the railway station, having 400 beds with abundant space-the largest structure of the kind raised during the campaign. Imposing as it appeared, its ventilation and warming were difficult and costly operations, and Billroth regards its erection as a mistake. He describes, at some length, the simpler means adopted for the ventilation of the Baracken at Mannheim, but even there their warming was found a difficult matter; so that, although the patients by aid of coverings could be kept warm enough, their attendants suffered severely from the cold. This was only the month of September, and there is no proof that such structures could be properly warmed in winter. The Baracken erected at the Berlin Charité, Kiel, and Heidelberg are not to the point, for they are really solid wooden houses, the crection of which is tedious and costly, while their superiority to small stone Hospitals is problematical; and in cold winters they cannot be warmed without closing the ventilators and the maintenance of very large fires. The essential thing for a campaigning Baracke is, that it can be speedily and cheaply run up, as it is only wanted for a time, and then, or on the breaking out of contagious disease, it can be at once demolished. Some of the Baracken at Carlsruhe and Heidelberg were admirable for the completeness of their arrangements, having double walls and floors, together with every convenience and comfort; but their construction was enormously expensive. Professor Billroth has also another word to say about tent Hospitals. These will not bear comparison with the Baracken. When rain and storm proof, they are almost dark and unventilated. The small, strong double tents, such as the Dutch brought with them for sleeping in, are, however, warmer than the Baracken, but under the influence of the sun's rays they soon become too hot. Professor Billroth is strongly opposed to any further extension of these tent Hospitals, and believes that they have now few defenders. The large one erected by the London Aid Society on a hill near Bingen, was, he says, prononneed as unsuited to the locality by all who visited it; and he regrets that so much money was expended to so little purpose. In allusion to his frequent recurrence to these topics, he

"I fancy I hear you grambling at the length at which I

am treating this Be acken and tent question; but I am inex-orable on this point returning as I do from the vicinity of the battle-fields with the full conviction that an exact knowledge of these things is far more necessary during a campaign than being able to decide whether a circular or flap amputation should be preferred. Surgeons placed at the head of Hos-pitals should not regard these matters with indifference, otherwise there is danger of their falling into the hands of mere technalists, who are unable to distinguish the essential from the non-essential

The diet supplied to the wounded, both at Weissenburg and Manuheim, was abundant. Coffee was given morning and afternoon, some bosillon in the forenoon, meat, soup, vegetables at midday, and in the evening bread and soup. From a half to a whole bottle of wine, or one or two bottles of beer, were allowed daily, with tobacco at discretion. Many of the patients will never meet ugain with fare like that of the Hospitals. Moreover, there were supplied occasionally with sausages and bread and butter (so dear to the Germans), ham, cheese, good port and sherry, and capital sardines. Professor Billroth often breakfasted with his patients on such good cheer.

He feels almost an antipathy to volunteer female nurses; and although many of these came from Weissenburg with the kindest intentions, he superseded their good-natured but injudicious services as rapidly as he could get the aid of regular sisters. At Mannheim, these "wild nurses" were probibited access to the wounded. Whoever wished to nurse was obliged to apply to the committee, who, in case of her services being needed, put her to definite work under the direction of one of the superintending nurses (Oberpflegerinnen). In two of the largest Lazareths, four ladies officiated as Oberpflegerinnen, all of them having received instruction in Hospital work, and three of their number having served in the war of 1866. They laboured day and night at their posts with a devotion and circumspection that excited the Professor's wondering admiration, especially as they were not women advanced in years, but good-looking, sprightly, polished ladies of good position, who would have proved highly attractive in any drawing-room.

" Especially was I surprised at the colmness and handiness of idies during operations; for not only did they prepare everything for these in the most careful manner, but they had such a knowledge of the instruments required, and so cleverly aided in the operations themselves, that, in truth, no Surgeon need wish for better assistants."

Then, so well did they understand how to manage the soldiers, that they obeyed them like children : and when some unfortunate had to be prepared for the necessity of an operation, a few friendly words from one of them quickly led him to anhmit

A committee of gentlemen conducted the correspondence for the wounded soldiers, and brought to light a curious traitviz., that the indolence of many of these was so great that they never attempted to correspond with their relatives, unless urged to do so. Indeed, it not unfrequently happened that some of them, who, at the request of their friends, had been sought out by the Johanniters, had been daily questioned as to their desire to write home, and refused to do this, although they knew a mother or a wife was grieving at their absence. This occurred even with regard to well-educated men. It is evident from this how little of the sentimentality of which newspaper correspondents give such gushing accounts really prevails in Hospitals. Either the patients are so ill that they are indifferent to everything, and only wish for quietude, or they pass their days in eating and drinking, reading newspapers. and much sleeping.

Professor Billroth has a good word for the unfortunate Turco prisoners-

"Concerning the wounded Turcos many untruths have been spread about. In vain have I sought for facts proving their cruelty, and in vain have I asked the German wounded whether they had been witnesses of any especial maliciousness on their parts. Nowhere have I been able to learn anything certain, and many of the tales told of them turned out untrue. At

first, they were suspicious and apathetic, and evidently expected that they should be hanged or decapitated, caring, however, very little for death. Gradually they became more truting, and were induced even to partake of wine and sausages, which, criminal as this might be in a Mussulman, was partonable enough in a patient. They talked much among themselves, but spoke little French, often declaring, however, that as soon as the Prussians had cured them they would behead them. They seemed to me very like children, and sometimes they were inordinately merry, but soon became and again. They were frightened at every change, and were delighted with picture-books, and got hold of all the coloured handkerchiefs they could to wind round their heads. They were childishly ignorant of the world. These of them who were budly wounded were completely resigned, and complained little of their suffering. Some, however, were very sensitive, but others were not so; there being, in fact, the same individual differences as with other men. Nor was there any difference in the healing of their wounds, as compared with Europeans. The French soldiers were, for the most part, very tractable, some of them being truly amiable and grateful. Seldom did they forget to say, after a visit or any service rendered, ' Merci, Monsieur le Maj They acknowledged all that was done for them with the greatest thankfulness. Among all the wounded, the Bavarians—the 'blue devils,' as the French christened them—were the most sensitive-at least, as far as the most fearful screams, which nothing could pacify, indicated this. The Prussians, even amidst the greatest suffering, were always quieted by means of a powerful military appeal."

(To be continued.)

AUTOBIOGRAPHICAL RECOLLECTIONS OF THE PROFESSION.

No. X. By J. F. CLARKE, M.R.C.S., For nearly forty years on the Editorial Staff of the "Lancet."

A Few Words about Myself -- Olney -- Bobbin Lace -- Nonconformist Colobrities : Andrew Fuller ; William Bull ; Wm. Carey - The Poet Comper : Original Anecdotes of him-John Newton -Dr. Kerr, of Northampton-London Fifty Years Since-The Old Family Doctor.

It has always appeared to me that the weary knife-grinder of Canning, who exclaimed "Story! God bless you, I have none to tell, sir!" must have been a knife-grinder of very little soul. No man, whatever his calling, if he have moderate powers of observation and a little common sense, can fail to have some "story" to tell-not necessarily about himself, nor of

"Moving accidents by flood and field," but of circumstances which he has witnessed, or of things which he has seen. The most insignificant person may be a spectator of great or interesting events; and his chronicle of them may not be without its amusement to others. The interest we feel in Pepys is on account of his "Diary"; and who cares a fig for Boswell, except in connexion with Johnson? Many of my friends-and some I don't know-have asked me to say a few words about myself. If I acted entirely on my own judgment in the matter I should certainly decline to bring my unimportant career before the Profession; but some, whose judgment I respect, and whose position is of the highest amongst us, have advised me to comply with a request which, anticomer good enough to say they "think reasonable." It is not likely that I shall sesque rithican for what may be regarded, by some "word-catchers," as egotism and vanity, but I am too dof a soldier to be frightened by mere flashed; in the pan. Moreover, if I have nothing to say worth saying of myself, I can say something of others with whom I have come myself, I can say something of others with whom I have come more or less in contact during the last forty years. Their names more or less in contact during the last forry years. Amer names will, at all events, awaken interest. The matter will be sterling, however imperfect the manner in which it is told.

In the valley of the Ouse, about five miles nearly due north from Newport Pagnell, is situated a small town, now only

known from the memories attached to it-Olney. It was once very flourishing as the centre of the manufacturing district of British lace. Before Nottingham had made itself famous by

its machine-made lace, many thousands of persons in the neighbour/ood of Olney earned a good living by the beautiful product of the "pillow and bobbins." My grandfather and father were lace merchants, and employed so many hands that it was one person's work to receive the lace from the women it was one person a work to receive the moe from the women and shildren who brought it to the different inns in the neigh-bouring towns and villages at stated times to receive their wages in exchange. The introduction of the Nottingham wages in exchange. The introduction of the strotage-product had a most disastrous effect on the bobbin lace, and distress to a very severe and painful extent followed in Bockinghamshire. Now the manufracture has dwinded to an extent that is all but a collapse. My granufather and father felt the creat severely, as did all the other merchants, except those who had made a competence for themselves retired sufficiently early not to see the labours and struggles of many years ending only with misfortune. I know it is usual with autobiographers to commence with some account of their ancestry, some tracing their line with some account of their ancessry some training their me to the Norman conquest, and some going even farther back. I have nothing of this kind to describe—indeed all attempts to go beyond three or four generations have failed. I only know that a coat of arms, when I was a child, was over the door in the hall of the old manor-house at one time occupied by my grandfather. This denoted at some time or other that we belonged to a "fighting family;" but in what fights we took part I could never ascertain. Antiquarians and archeologists have told me that our family had a Saxon origin; but knowing how often these gentlemen make mistakes, I have not attached much importance to their conjectures. On my mother's side, however, I feel proud of my great-grandfather. He was a miller in the immediate neighbourhood (Lavendon), and occasion-ally preached in barns and conventicles at a time when it was dangerous todo so, Nonconformity at the period being only some-thing short of criminal. But I mention my ancestor because thing snort of criminal. But I mention my ancesior because he must have been, though probably uneducated, a remarkable man, inasmuch as he is mentioned in the most affectionate manner by the poet, whom no one will ever accuse of being a flatterer. Cowper frequently refers to him in his correspondence; and when ho was suffering from a "bad leg," threatened to destroy him, and for which he was attended by the celebrated Kerr, of Northampton, Cowper remarks: "If Mr. Perry dies, he will leave few better men behind him." I am contented with having one ancestor I can refer to, who was contented with naving one ancessor I can reier to, who was worthy of such an apostrophe from one of the greatest Englishmen who ever lived. The mill in which the "godly miller" ground corn, and occasionally held forth, is still in the family, my cousin now carrying on the business. The "right of the water" of the Ouse is attached to Larendon mill for three miles, and in this stream the finest pike are to be caught. Here, too, game of all kinds, though on the river side, was plentiful. and my uncle was one of the best shots in the county ; could bring down a wild goose with a rifle, and, as a fisherman, whein throwing the net or angling, was not surpassed by any gentleman in the neighbourhood. But my native town is not only celebrated as the abiding-place of Cowper for most of his poetical life, and for his giving such a charm to the neigh-bouring scenery in "The Task," but the Vicar at one time was John Newton, who, whatever were his faults of manner and of judgment, was a man not to be mentioned without feelings of admiration and affection. Olney, shortly before my birth in 1812, and for a long time previously, had been one of the centres of Nonconformist teaching and teachers, and the centres of Nonconformist teaching and teachers, and infinitedly associated, with great missionary embryrises, particularly and a superior of the property speaking, the renderrous of the "giant missionaries" of the time, and those who acted for the giants in their absence. Andrew Fuller, of Kettering, the author of "The Bible its own Witness," was a frequent visitor; so was William Bull—grandfather of the late Dr. Thomas Bull—of Newport Pagnell, one of the most learned and accomplished preachers in the Baptist connexion. He had an inveterate habit of in the Paptist connexion. He had an inveterate habit of smoking, and was seldom seen without "a yard of they smoking, and was seldom seen without "a yard of they forms a prominent feature in the letters of the "best of all English letter writers" had a great admiration of Bull, and remarks, with some humour but evidently with regret, "No man is perfect; Bull smokes!" Bull, in his preaching, bore some resemblance to the celebrated Rewland Hill, as he was very prone to a joke in the pulpit; but he was a sincere, good man, and, as a scholar, was, I believe, only inferior amongst the Nonconformists to Adam Clarke. The most remarkable man, however, who came occasionally to my grandfather's house was Dr. Carey, the pioneer of missions in the East Indies, whose industry, learning, and self-denial stamp him as one of the most marvellous men that ever existed. He was a working shoemaker at a little village named Moltan, near Northampton, and from this humble position raised himself, without previous training, without education, and originally without funds, to be the greatest of Eastern missionaries and the most eminent of Eastern scholars. The house is stil shown to pilgrims where this great and good man "worked fer his daily bread," and the little signboard over his door at Mooltan is still preserved with befitting honour in the Baptist Missionary House in Castle-street, Holborn. One of the workers in this good cause was the father of John Churchill, who has just retired from the firm who publish this journal. I had the honour of the acquaintance of that venerable man, who carried on the Nonconformist ministry at Thames Ditton for upwards of half a century. I dined only last week with another venerable Dissenting minister, dined only last week with another venerable Dasenting minister, now upwards of 89 years of age—the Rev. Mr. Wollacott— who was personally acquainted with all the ministers I have named, and gave me the information respecting Carey's sigm-board. I have heard my grandmother, when I was a child, speak of Cowper, of whom she had a virid recolletion, as a very symma, avoiding all persons in his walks, and generally accompanied by his dog, "Beau." When Southey contemplated publishing an addition to his "Life and Works of Cowper." in the shape of a volume to be entitled "Cowperania." ventured to send him a few scraps that had not been published respecting the poet. Unfortunately, the cloud that eventually became over-darkened soon after completely shadowed his fine intellect, and my little scraps never met the light. I had some time before, at the period of the destruction of the old bridge

"That, with its wearisons but needful length, bestriées the wintry food." sent a short article, entitled "Cowper's Walks," with a drawing of the bridge, to the late William Hone, which he published in his "Year-Book." In this paper I mentiosed having seen, when a boy, the very "post-boy" whose "Iwanging horn, with years before, had been heard by the poet, and whose the best with the books of "The Thak"—"The Wilner Erening." I published, in Leigh Hunt's London Journal, about 30 years since, two papers having reference to the scenes described by Cowper. One of these, entitled "May-Day and Cowaliping," was enriched by a note of considerable length by the anniable and accomplished editor. One anecode I have beard of Cowper which has sever been published, and which is certainly genuine remember, when he had become an old man, as the clerk of the "meeting" house, was in the habit of shaving Cowper. The time the content of the complete of the second of the content of the word pass between the parties. On one occasion, however, the silence was broken by the following circumstances:—Wilson to dine with Lady Austen at Clifton. Wilson had left home to be punctual to his engagement, and had desired his journey, and to thing Mr. Cowper's best wig after him—the wig had been dressed for the occasion. When Wilson had finished the operation, Cowper suddenly exclaimed—"Oh, M. Wilson—my wig:" Wilson, who was a wit—and many were the witticions that I head from him in after year—immediately witticines that I head from him in after year—immediately witticines that I head from him in after years—immediately witticines that I head from him in after year—immediately witticines that I head from him in after year—immediately

"I came before your wig was done, But if I well forebode, It certainly will soon be here; It is upon the road."

The poet gave one of his melancholy smiles, and said, "Very well applied indeed, Mr. Wilson."

well applied inseed, all. vinson.
After my fasher left Oher, I continued to go to school there
for some time, and well do I remember our journeys to London.
The coach—the old Wellingborough—used to leave that town
at six in the morning, reach Ohery at eight; then it stopped for
breakfast, which usually occupied half an hour. We lunched
at Woburn, diaed at Dunstable, and remained always an hour
at St. Albans to visit the fine of da beye. London was usually
reached about seven. We used to walk up all the hills. Well'
that was a slow pace, and the times were slow; but a day,
particularly if it were fine, might be much less pleasantly speut
than in the manner described.

The names of two Medical Practitioners in connexion with Olony occur to me as worthy of mention. One was an old gentleman of the name of Biggs. He was one of the old school of a pothearies; but report made him rich. At all events, he must have had some means. His highest fee for midwifery was half-a-guines; this, however, he would often pool, posh and refuse to take. Indeed, with poor people, he not only ignored claimer but always carried with him, on his first viet after districtive the advance of the state of the control of

After I left Olney for good, I resided in London and its After 1 left Uney for good, 1 resuce in London and its neighbourhood, and went to school for some time at Gloueset House, Walworth. The house was built on a portion of an estate called Lock's-fields. Dr. Hooper had leased about four acres of the fields, had built a mansion, and laid out the grounds in a remarkably useful and picturesque manner—in fact, everything was done to make the little domain complete, orchard, garden, lawn, nost, grotto, ctc. This estate was next to one originally belonging to Sir Matthew Bloxam, the aucostro of the present Dr. Bloxam, and consisted of several accostro for the present Dr. Bloxam, and consisted of several extra Sorural was this seen, within a mile and a quarter of the bridges, that you might when in the grounds fancy yourself far in the country. It may surprise the present generation to know that birds nesting and even shooting were indulged in with success in this urban solitude. Nothing is more indicative of the vast strides made by the metropolis in the last fifty years than a little circumstance associated with our school. Forty-five years ago, one of the masters, in going through one of the shrubberies, heard an unusual noise, and examining the spot whence it issued, was surprised to find a huge cuckeo in a reedsparrow's nest, its wings flopping over the sides of the nest, and threatening every minute to capsize it. This unusual circumstance was made into a short paragraph, which went the round of the newspapers under the title of " Rus in Urbe. The result was, the number of my schoolfellows increased twofold in the course of a single year. A large town now occupies the site of Dr. Hooper's and Sir Matthew Bloxan's grounds: but, at this time, the greater part of Stamford-street and its neighbourhood were luxuriant orchards. On the site of the present South-Western Terminus stood a windmill; opposite, present South-Western Terminus stood a windmill; opposite, where the church now stands, was an old farm-house. St. George's-fields were "hedges and ditches and punds of water." The grandfather of Mr. John Forter, of Guy's, ecupied a Louse immediately opposite Mandsley's factory in the West-nitaster-road. He had built it some years before, and some acros of land on which he cultivated his taste for botany, some acres of land on which he cultivated his taste for bolany, long carried on afterwards by his son, by friend, Mr. John the Five-fields of Chelsen, on which Belgravia is now built to the Five-fields of Chelsen, on which Belgravia is now built to the most hand the east, the changes that have taken place have even been more remarkable. A great portion of the City-road on either side was garden ground, cultivated for the supply of the London narkets; and Tavistock-square and the neighbourhood were known as the "Long-fields." In one of these was fought the eclebrated duel known as the "Forty Footsteps," and a farm-house was in the midst, to which it was the custom of people living in the crowded neighbourhoods of Soho, Covent-garden, and Helborn, to send their children to drink pure milk, and inhale fresh "country" air.

At that time the state of the Profession was very different, purticularly in London, to what it is now. Trantices were local and localised, and the area of them contracted. The "family Dostor" was usually within easy call. He had not to contend with pseudo-consulting-Practitioners, who take low fees. cutters, and undenseted dentities. The "wear and the tear" of railway travelling had not then engendered a new class of terrous diseases; life was above, but more enjoyable; and practice was more pleasant, and as heretive, if not more so, than now. I have to apologies for the discussive nature of this cannow. It was to apologies for the discussive nature of this existing of the content of th

PRESIDENTIAL ADDRESS DELITERED BEFORE THE CLINICAL SOCIETY OF LONDON, JANUARY 27, 1871,

By WILLIAM GULL, M.D., F.R.S.

Gentlemen,-The trust you place in my hands by making me your President, awakens in my mind a deep sense of the re-sponsibility I incur in accepting it. If a life devoted to those objects at which this Society aims could give me confidence in the future, I should receive the honour you confer upon me more cheerfully and hopefully than I can now venture to do; but whoever shall strive to set before himself what has been done in clinical Medicine, and foreshadow in his mind what remains to be done, and the difficulty of doing it, will be apt to be discouraged rather than elated at the prospect. I fancy the Father of Clinical Medicine must have had somewhat similar thoughts when he selected for his first aphorismal utterances, "Life is short—experience is fallacious." I confess, however, that I think these expressions of Hippocrates gives more help than could have been given by any protestations of confidence which he might have made respecting himself or his art. If Hippocrates were with us this evening, he might congratulate himself that however short is the individual life of man, by associations like these it becomes perpetual, and ever young and hopeful-that instead of the occasional activity of one mind, we can, by a society, insure the increasing and varied co-operation of many minds.

It is one of the most striking characteristics of our time, that the individual is less and less, and associated activity more and more. But if the vita breize of the isolated labourer is thus obviated, there arises in place of it the dauger of desultory and undirected exertions, which may be fruitful only of the thorns and thisless of controlled ory state meals, and as barron of true results as are the limited and other prejudiced observations of a single individual. To counteract this it will be my duty to ask your estruct Comparation for extending and perfecting the labours of the Committees of this Society for the investigation of clinical and therapeutical questions. By comparation that the consistency of the control of the co

with others in it

By putting positive questions to Nature, we are more likely to find out her secrets than by waiting, however patiently, for her own revelation of them. The more narrowly and positively such questions are framed, the less equivocal must be the reply; and however feeble and dubious the response—inaudirepry; and nowever reque and duotous the response-manufle, perhaps, to any single car, or incharacters invisible to any single eye—it may be plain and distinct when repeated over and over again. The aid afforded by such questions and crossand over again. The am anoruse by suce questions and cross-questions, putting Nature as it were upon her trial, and winnowing her replies by the exacted methods of research, mental or mechanical, is, as Bacon says, comparable to the lever and the screw in mechanical operations. "H," says he, "men should enter upon mechanical works with naked hands, without the force and assistance of instruments-as they have not hesitated to enter upon the works of the intellect with the naked forces of the mind-small indeed would have been the naked rorses of the mind—small indeed would have oear the things they would have been able to accomplish, however earnest and conjoined their efforts." "And if," he continues, "to dwell a little longer on this instance, and to look into it as into a glass, we should ask, if by chance any sober spectator should see men striving to raise a mighty obelisk without mechanical appliances, would be not say they were demented? But, if so failing, they should be confident of success by increasing their numbers, would be not think they were still more mad? But if they should consult together to make a selection, and to dismiss the weak, and only by the help of the vigorous should expect to accomplish their object, would be not think they were hopelessly insane? But if, further, not content with this, they should establish nthletic exercises content with this, they should establish athletic excreases and summon all thus prepared for the work, would be not ery out, 'These people have gone mad even with reason and prudence'?" And should not we be open to have a similar opprobrium cast upon us if, uniting ourselves into a Clinical sciety, we were contented to strive to accomplish the work before us without the assistance of the highest intellectual combinations and methods?

If the existence of this Society, ever recruiting itself, as I

trast it will do, with young and devoted labourers, annihilates, as I have said, the first laneart of Hippocrates, that life is short, I trust that our work will be so prosecuted that his subsequent statement, "Experience is fallacions," may no longer obtain. It is, perhaps, too much to hope that a growth which is indigenous to our minds, and which has shown so much vitality, should easily be rooted out. Hitherto, from the favouring influence of prejudice and self-low, enthing has equalled the exuberance of this sort of experience: no peraicious practice, no faneful hypothesis, no unfounded dogma.

but has been and is fed and maintained by it.

Experience in Medicine is fallacious, because it is limited and imperfect; limited to the few observations gleaned in some narrow area; limited to some season or short period of time; limited by the prejudice or interest or incapacity of the observer, or by defects in his methods of examination, and other control of the catural content of the control of the catural content of the catural ca

in the conquerer's cert as ms tramph, or ever present a coneren when our knowledge seems most assured. In clinical Medicine, the greatest correction of fallacious experience is a true diagnosis—a diagnosis not only of the anatomical conditions, but such a diagnosis of the forces concerned will take. Here there were a fact that the conbody be known, its course and the results of impediments upon it can be calculated. So, if we would obtain any true experience of therapeutical measures, we must of necessity acquaint ourselves with the exact strength and tendency of the forces against which we operate. What voluminous records are there of cures and means of cure which are as valueless as the rage upon which they are printed. "What palias and expense," says Herschel, "would not the alchemista have been apared by

of cures and means of cure which are as valueless as the rage upon which they are printed. "What pains and expense," says Herschel, "would not the alchemiate have been spared by a knowledge of those simple laws of composition and decomposition which now preclude all idea of the attainment of their position which now preclude all idea of the attainment of their on the pursuit of the perpetual motion, night have been known and attended to by the inventors of inumerable contrivances destined to that ead: What tortures inflicted on patients by imaginary curse of incurable diseases might have been dispensed with had a few simple principles of physiology been eatiler the garden and attended and the proposition of the proposition of

It is only through a perfect diagnosis that we can see in what direction therapeutical interference should be attempted. It is true that accident has sometimes aided us where knowledge has failed; but it is obviouely unbecoming in intellectual creatures to satisfy themselves with such scattered fraits, when, by due culture, no doubt large harvests might be reaped. If, as If-exchel says, knowledge saves us from futile which are closed to ignorance. In the present imperfect state of Medicine, that success may often be but partial; but seen to Atta degree the amount of human suffering that may be avoided, and the amount of good that may be obtained, is in the total incalculable. It would be imperiment if I should attempt to exhibit before you the successes, partial or otherwise, of therapeutics; but I cannot forbear expressing our obligations to the sister science of Surgery in all its departments. I and have been as deeply impressed with the feeling that knowledge is power, whilst witnessing the effects of some Surgical and have been a keeply impressed with the feeling that knowledge is power, whilst witnessing the effects of some Surgical physical or chemical science. It is perhaps to be regretted that Medicine and Surgery have been in any way disso-

ciated. Happily, in this Society they are united. What detriment Surgery has received from the separation, others must say; but Medicine requires constantly quickening by the necessity of that exact anatomical observation which the problems of Surgery analys analys.

of that exact anasomical conservation and the strength of the

made to give the observations contained in them the highest

possible exactness of expression.

This Society has two functions to fulfil: to exhibit the working of the most critical methods of research; to show, in fact, what clinical Medicine should be, and to improve those methods. For myself, I am far from believing that he is the best observer who records the greatest number of facts, but he who has the perception which canables him to separate the chaff from the perception which canables him to separate the chaff from the wheat—what is essential from what is accidental. In the nature of the case, such discrimination must begin somewhere; but selver must be left to the intellect of the observer, or to the circumstances of his work. Treatises have been written sent to the selver must be the sent to the selver must be the sent to the selver when the sent to the selver when the sent to the selver when the selver we have the selver when the

was the we of skill in two cases, guided by honesty of purpose, we must work out with the best means at our command, ever striving for better. Where the scalpel will not reach, the microscope may reach: where the microscope will not help us, chemistry may help us; where chemistry fails, the refluence of physics may come in; and, where these fail, that finer power of the mind which enables us to deduce truth from history may lay open before us the workings of forces too fine even for that scientific exercises of the imagination which has lately been so cloquently commended to us, as shown by those hereditary tendencies to disease which as certainly take effect, and produce results as sharply defined, and often as conserved and produce results as sharply defined, and often as conserved materials, as if their physical causes could be also defined, and often as conserved in the contraction of the

aumanty requires a cour manas. What unexplored regions are inviting our attention, will be obvious to anyone who will look over the pages of any year-book of facts recording the labours in the different departments of Medical knowledge. The perusal will leave upon the mind the sense how little has anywhere been accomplished, and bow far the lines of inquiry radiate and diverge. To take that commonest of all maladies, phthisis, it may be said

To take that commonest of an inslateles, phthias, it may be said to present a great-haded field, distinct in nothing but it is mortality, and all but unexplored by science in respect of those steps and processes whereby the fast instances of the steps and processes whereby the fast instances of the steps and processes whereby the fast instances of the steps are the carried and the steps and the step and t

Or, to turn to another and equally extensive field of research Or, to turn to another and equally extensive instant research.

—the large class of vascular degenerations, countring mainly
between the agrs of forty and sixty. If the processes, near or
remote, which boring about these morbid states of the heart and
vessels, were more fully clucidated, some part of the chapters
which now treat of the diseases of the brain, of the chronic diseases which now treat of the diseases of the orani, of the chromodisease of the lungs, of the liver, and especially of the kidney, might have to be rewritten. It seems probable that in a good deal of our clinical pathology we have mistaken the end for the beginning, and, being impressed chiefly by the more prominent or more easily demonstrable lesion, have regarded it as a cause, when it was but part of another and antecedent state.

It is from clinical study alone that we can learn the beginnings of disease. Often, when the gathered clouds of the final storm have filled the atmosphere, it is in vain that we

look round to see from what point of the heavens it began.

The apparently trifling ailments of to-day may, when we are able rightly to interpret them, forestadow the coming of much graver events. For these inquiries, private practice affords the only opportunities. The record of individual cases, illustrative of the early traces of pathological change, would be of great value. Perhaps, as a rule, we have looked too exclusively to the wards of our Hospitals, and to the records of post-mortem examinations, to teach us our clinical lessons.
This Society seems to afford special means for correcting these

The opportunities of private practice, if carefully utilised, and to upportunities of primary gracies, in curvainty distance, the onest of infection diseases, the onest of infection diseases, the cancer of the stage, which can rarely occur in Hospitals, we might learn through what ways the infection invades the organism, and thus might be enabled, if not to obviate its progress, at least to learn something more of the means for progress, at least to learn something more of the means for

controlling it.

But I may not longer detain you with these details. Suffice it to say that any new fact, however apparently useless and disconnected, is worthy of a record. It may be, to use the disconnected, is worthy of a record. It may be, to use the language of embryology, the primitive trace in the department of a new form of thought and knowledge; or, to alter the simile, its meaning may not appear until the context is discovered. The superstitions worshipper of Islam preserves every scrap of writing, lest by destroying it he might mar a portion of the sacred text; let each one of us, engaged as we are in amassing materials of knowledge, treasure up every stray fact, convinced that it forms part of a previous record, which, if not deciphered now, will become legible by some subsequent addition. As the whole purpose of chincia medicino excites can never with success durists from the prescrition of society can never with success deviate from the prosecution of those practical and primary objects. The advancement of therapeutics in their entirety is the end we aim at. Happily it is no longer necessary to prove that therapeutics and the administration of drugs are not synonymous. It is an ancient saying in Medicine that "Nature cures diseases;" and we have learned in modern times that both in Medicine and Surgery it may often be our truest aim to secure our patients from inter-ference until a healthy equilibrium is restored. The doctrine of physiological and mechanical rest in the cure of diseases has vindicated and obtained for itself a permanent position in therapeutics. Every contribution to our Transactions in illustration and maintenance of the doctrine will be valuable. If it

tion and maintenance of the doctrine will be valuable. If it often taxes the ingenuity of the Surgeon to insure mechanical rest for an injured part, how much higher are the demands made upon our therspeuties to obtain physiological rest, or any degree of it, amidat the perturbations of disease:

It seems probable that a large number of acute diseases may be sufficiently treated by only following these indications of rest. Tet the greatest misunderstanding prevails, in our Profession as well as with the public, respecting the objects pointed out, as if they were much trial a nature as to require a continuous contraction of the public respecting the contraction of the distribution of the contraction of the highest faculties, and still often leave us far from their refrect statisment. I have be excused cauting the exercise of the nightest includes, and still often leave us far from their perfect attainment. I may be excused for saying that the expression "Nature cures diseases" is both a good and a bale expression. It is a good expression if it re-present to our minds, however imperfectly, that a principle of present to our minus, however imperieury, that a principle of compensation prevails throughout a living body, causing the disturbance of the physiological balance in an organ to be corrected by a correlated change in it or in some other part—as, for instance, when the fainting heart feebly supplies the brain and, this centre of voluntary action failing, the patient falls down, and the circulation is restored. To say that "Nature cures disease" is a bad expression, if it create in our minds a metaphysical conception, as if there were in us some personal anima controlling the operations. The former use of the term is that which we, as a Clinical Society, must ever contend for, The former use of the term and our chief object is to encourage amongst ourselves those researches which show how Nature in this sense cures disease and so have plainly before us the circumstances which should

direct and control our therapeutical interference,

Of equal antiquity with the expression I have just quoted, is that more famous one which must ever be remembered in a Clinical Society, that the two special objects of Medicine are, to do good, or to do no harm. The latter alternative has, from Galen downwards, been thought a matter of too easy attainment; but doing no harm is not always an easy virtue in Medicine. I desire, on this point, to call the attention of the members of the Society to the present state of our practice in regard to many chronic and acute diseases, that we may by improved records learn what is the value of positive treatment in many of these maladies. As to the doing good by the exhibition of remedies, which is the more popular view of therapeutics, I need not say a word to stimulate exertion in this direction. We are all impressed with the importance of the subject; but it is to be urged that the cases which shall be brought forward to illustrate any

the cases which shall be brought forward to illustrate any treatment, or the effects of any particular drug, shall be so selected as to lead, as far as possible, to positive conclusions. Centlement, if ear! have detained you too long; yet! cannot the control of the control of the control of the control of at this moment—that we ought to be thankful we are enjoying at this moment—that we ought to be thankful we are enjoying the blessings of peace, which enable as to meet on these con-sions to encourage each other in the pursuit of knowledge, which we hope may contribute to the welfare and happines of mankind. I carrestly trust these blessings may long be continued to us. The sure foundation of such a long must ever lie in the fulfilment of that sentiment of one of our greatest heroes: "England expects every man to do his duty"—in the arts of peace as well as in the circumstance of war.

DR. JO HNSTON'S STATISTICAL REPORT OF THE ROTUNDA LYING-IN HOSPITAL.

At the meeting of the Dublin Obstetrical Society, held on January 7, Dr. Johnston read a clinical report of the Rotunds Lying-in Hospital for the past year. One thousand and eighty-seven deliveries took place in that period. Of these, 17 ended fatally, from the following causes:—I from carcinoma and gangrens of the uterus; 1 from rupture of the uterus; 1 exhaustion, the sufferer being cold and pulseless on admission, and death resulting, with post-partum hemorrhage, in seven-teen hours after admission; 1 gangrene of uterus—byter-cophalic and putter with the seven the se cephalic and putrid child delivered by craniotomy; I case of sloughing of uterus; I woman periabed by exhaustion two bours after delivery by the feet, the case being one of placenta previa; pleuritis and pneumonia proved fietat to 1 mother on the fourth day; I fatal case of apoptectic convulsions occurred in thirteen hours after delivery, in a woman of 25 years; placenta previa, with great exhaustion on admission, characterised a case which ended fatally in two hours after delivery; Cessarian section was performed in a woman with pleuritic effusion, who was morbinad on admession, characteristic of the previous of the control of naving ocen orought to mospital greatly reduced by accidental-hemorrhage. Six cases of a puerperal form of disease terminated fatally, and are thus classified, with brief notices, by Dr. John-ston, in the table of fatal cases:—

Ward, Bed. 11,1869 1st pregnancy; peritonitis. Nov. 25 12, 1870 12 116 24 1st Jan. March 13, ,, pyremia. 40 23 lst ** May 15, ,, 110 30 lst 12 peritonitis. 24 4th 16, ,, 44 Sept. 86 Oct. 8 90 lst pyæmia. 13, "

The notices are of considerable interest, and, taken in chronoare nouces are or consucrance interest, and, taken in chrono-logical order, are as follow:—1. Fretting greatly; husband at sea; frightened by being brought to Hospital; was told "they were dying in it." 2. Admitted in a feveriah state; seduction; remore; attempted suicide before admission. 3. Most unhappy; drunken husband; thild bydrocephalcau; very 3. Most unhappy; drunken husona; enua nyurveophalous; very feitid discharge on admission; pyzemis showed itself immediately, 4. Lirid patch of inflammation on posterior part of right habis before delivery, which sloughed; patch appeared on middle finger of left hand and back of right ditto. 6. Symptoms appeared immediately; had been in great penury and mental anniety, her husband being in gaol. 6. A case of

seduction; great mental anxiety from time of admission. limits assigned to us do not admit of any lengthened comments upon the important observations made by Dr. Johnston when upon the important conservations made by Dr. common when speaking of this important class of cases, that the mental state has much to do with puerperal disease is fully borne out by them; that contagion had nothing to do in the matter is also self-evident, paying regard to the date of the several cases; and further, that the Hospital was not the cause is alike evident even to the most prejudiced reader. In fact, in four of the cases at least the disease had shown itself on admission or before delivery. Dr. Johnston has also recorded twenty-eight cases in which recovery took place, as puerperal inflammation, peritonitis, or pysemia. He also mentioned that many cases came into Hospital from districts where zymotic disease abounded; in at least one case scarlatina existed in the house from which a pregnant woman came to the Hospital, and yet she made a good recovery. He has made it his constant study to avoid every possible cause of illness in the Rotunda by attention to cleanliness and ventilation.

Dr. Churchill highly complimented Dr. Johnston on the report which he had just brought before the Society. He considered it artisfactors and sidered it satisfactory, and drew attention to the successful use of the forceps, which had been used in eighty-three cases. while craniotomy had only to be resorted to in two instances. He observed that in Dr. Clarke's Mastership, now several years ago, craniotomy was practised more frequently than the use of

the forceps.

Dr. Bratty considered the prevalence of zymotic disease in the districts whence the Rotunda cases came, and their comparative immunity from it when in the Hospital, as eminently satisfactory.

Dr. ATTRILL considered it a singular fact that all the six fatal cases of zymotic disease should have come from two out

of the seven city districts.

Dr. McClintock regarded the report as of great interest in reference to the trne value of well-conducted Hospitals. He contrasted the experience in the Great Hospital under consideration, with its 17 deaths in 1087, with that of a country district in Scotland, where everything favoured the result, and yet the average mortality in pregnancy in the latter was 1 in 57; while in the Glasgow Lying-in Hospital, with only 364 deliveries, there were 7 deaths, or 1 in 52 cases. The conclusion at which he arrived was that this report showed that puerperal fever was not endemic in Hospitals. The disease was not contagious when in well-managed Hospitals. He had found the mortality of seduced women always extremely high; in the seven years of his Mastership they perished in the proportion of 1 in 4. He stated that Dr. M. Duncan's observation, that primipara were more prone to mortality in the pro-portion of 1 to 2 of other cases fatal from puerperal diseases,

was borne out by Dr. Johnston's report.
Dr. H. Kennedy stated that his experience was opposed to
the idea that puerperal fever was due to the Hospital.

Dr. RINGLAND, who, in common with all the other speakers, expressed his gratification at hearing the able report of Dr. Johnston, stated that all the evidence went to prove that no extension of puerperal disease took place through contagion in the Hospital

Drs. Sibthorpe and Fitzpatrick made some observations on the value of Hospitals to those classes so much in need of them, and Dr. DENHAM regarded the present report as highly

satisfactory.

Dr. C. F. Moore drew attention to the fact that all the fatal cases of puerperal fever came from the low-lying districts bounded by the sea and the river, stating that, as he found, several of the worst cases of typhus and cerebro-spinal fever, when the latter existed in Dublin, also came from the same localities; he thought the matter deserved at least a passing notice, inasmuch as many eminent men considered that lowlying marine and marshy districts, as well as localities where dwellings existed upon made or reclaimed ground, were liable to prove very unhealthy.

Dr. Johnston, in conclusion, felt much gratified for the kind observations made in reference to his report; he did not attribute the puerperal cases to anything but mental causes. He had used the forceps in eighty-three cases, with fatal results

in but five instances.

OPHTHALMIA is said to be unusually prevalent in China this year, and in one locality the lower orders attribute the visitation to the influence of a new bridge which is being built over the Foochow Creek.

REVIEWS.

On the Present State of Therapeutics; with some Suggestions for placing it upon a more Scientific Basis. By James Rockes, M.D., formerly Physician to the British Legation, and to the Abouchoff Hospital at St. Petersburg. London: J. and A. Churchill, Pp. 232.

This is a book which well deserves study, not only for the decided views, vigorously put, which it contains, but also for the care taken by the author to arrive at sound conclusions, and sound conclusions only. Dr. Rogers, early in his career, was struck with the recoveries which took place under the homosopathic system of treatment. The question arose, how to account for these. Was the homosopathic system right, or were the recoveries entirely due to the tendency to recovery manifested by the system in all ordinary complaints? This, of course, implied an inquiry into the principles and practice of homeopathic writers, which Dr. Rogers has undertaken and thoroughly carried out, the result being one of the most signal overthrows which it is possible for a system to receive. He begins at the root of the matter by putting the doctrine of simila similabus to rigid proof, the drugs selected being quinine, sulphur, and mercury. Thus, from his own experience, and that of others, he is able to assert that quinine causes nothing like intermittent fever, sulphur nothing like itch, and mercury intermittent fever, support norming like iten, and mercury nothing at all closely resembling syphilis. These are cardinal instances, and decide the question against the fundamental doctrine of homosopathy. Other of Hahnenaun's principles are exploded in like fashion, especially his illustrations of are exprouse in the tashion, especially his lithistrations of homeopathy drawn from nature, and his denial of spontaneous curvs. The modifications deemed necessary by modern homeo-pathic practitioners are also expounded, and the globule system and dynamisation hypothesis exposed most unmercifully.

The conclusions he comes to are—that, as a system of therapeutics, homosopathy has not a leg to stand on; its medication is no medication—it means letting people alone, and allowing the disease to take its course. Next comes the pertinent to the disease to take its course. Next comes the pertinent inquiry—What are the principles which guide legitimate therapeutics? are they better or worse than those of homospaths? Of principle he finds none. What are the results of paths? Of principle he finds none. What are the results of practice? Comparing the statistics of reliable homosopaths engaged in Hospital practice with those of legitimate Practi-tioners, he finds that in acute articular rheumatism the homospathic and expectant methods give much the same results. int of fact, the course of the discuse is not greatly modified by interference of any kind. Further, what is not exactly usual, is that homosopaths of position admit that their treatment of acute rheumatism is not a success. The position of homosopathy, with regard to the next form of disease considered, is still worse. In intermittent fevers, we are accustomed to rely upon quinine as a remedy, and its success is undoubted, although it is not unlikely that a considerable number of the cases which get well with it would get well without it if exposed to favourable went with it would get went without it if exposed to favourable hygicinic conditions. Some homeopaths contend that their remedies for ague are equal to ours, but that the symptoms of the disease must be studied separately in each individual case, and the remedy selected accordingly. This complicates the matter so much that Wurmb and Caspar in seventy-seven cases made seventy-seven mistakes in the remedy first selected! Others, on the other hand, candidly admit that their remedies will not cure ague, but that quinine will, and this they give in massive doses, finding globules of no use. Those cases that do recover when treated homosopathically, probably correspond in point of number with those which would get well without

any medicinal treatment at all.

Next, as to typhus. Here we think Dr. Rogers, generally exceedingly careful, has everlooked one most important factor epidemicity. The mortality of typhus is very much greater when the disease is rampant than when it occurs sporadically. The difficulty, again, of comparing the results of British practice with the only reliable homopopathic statistics necessitates the use of foreign tables, where typhus and typhoid fever are invariably confounded. The conclusion, therefore, that the success of the Glasgow and London Fever Hospitals is less than that of the homosopathic institutions in Vienna, is hardly borne out. Besides, the old statistics and the new are different, expectant treatment being now the rule in all fevers. Something of the same objection as to typhus, epidemic and non-epidemic, appor-tains to cholers. We think it undoubted that, in time of cholers, attacks which at other times would be classified very differently are habitually referred to the more dangerous disease :

and this would naturally be taken advantage of by any conand this would naturally be taken advantage of by any con-tending party to prove the superiority of their mode of treat-ment. The expectant method is now generally used in this malady also, and its results correspond closely with those of the homocopaths. Pheumonia is the last malady discussed; it has been treated in all manner of ways; the best results are given been treated in air manner or ways; the best results are given by the restorative mode, next by the expectant and homeo-pathic plans, the success of which are nearly equal; the least successful series being those treated on the old system of depletion. The conclusions drawn by Dr. Rogers are—1st, that in the diseases examined, with the exception of intermittent fever, the results of homoopathic treatment in Hospitals have been about equal to the most satisfactory non-homocopathic; been about equal to the most satisfactory non-homocopathic; 2nd, that the results of homocopathic and non-homocopathic treatment, in which little or no medicine was employed, have been nearly the same—or, in other words, that drugs in the doses usually administered by homocopathic practitioners have not appeared to exercise any decided influence on the progress of disease." Next he says, "In short, the sed conclusion is insvitably forced upon up, that the Materia Medica of the old school, the result of the accumulated experience of ages, is a

employed, a noxious-mass of what were once regarded as health-restoring drugs." How best to remedy the state of things is the next inquiry, to which, however, Dr. Rogers devotes but a brief space. He would draw his exact knowledge of therapeutics chiefly from two sources. He would look to chemistry for something, but he would seek his information mostly from exact observations on the natural course of disease, and from the exact proving

worthless-nay, more, as it has been hitherto frequently

of remedies.

"If we," Dr. Rogers would say, "knew the exact course a disease was wont to pursue, we could appreciate the exact effects. of remedies exhibited during its progress; not knowing that the reputed effects of the remedies must be mere guesswork." It is quite plain that to attain to such a knowledge of maladies is no easy task. Disease is no abstraction, but a concrete whole, made up of the specific malady and the constitution of him attacked; and this must over be a difficulty in the way of those attacked; and tus must over no a unreatty in the way or some who would strive to attain to what lawyers call "case knowledge." Whether the difficulty is surmountable or not remains to be seen. Of the practice of testing remedies in the living subject, provided the trials be carried out fairly and niving supers, provided the traits be carried out fairly and sensibly, we have nothing to say but good. Some people think the practice is part and parcel of homeopathy; it is nothing of the kind. And it is extremely questionable if their repertories contain a single proving into which the imaginative faculties do not largely enter. Baron Stoerck was the first to introduce this mode of ascertaining the action of remedies, and from him Hahnemann borrowed it. There is no reason why we should

not resume the practice,
Finally, Dr. Rogers contends for a more scientific use of the imagination of the patient in the treatment of disease. must at all times be difficult, and of it we shall say nothing. Thus concludes a very remarkable book, which we very strongly

commend to our readers.

Abstracts of English and Colonial Patent Specifications relating to the Preservation of Food, etc. Compiled by WILLIAM HERRY ARCHER, Registrar-General of Victoria. Melbourne. 1870.

Anchies, he gainst-venerator victorias, alcohorne. 1870. The object of this useful pamphlet is "to afford the public as a specifications themselves, what has hitherto been done in the direction of discovering some really efficient method of preventing the decay of organic bodies, especially those used for food;" and considering the numerous attempts that are being now made to import preserved meat into Great Britain from Australia and South America, its appearance at the present

time is singularly opportune.

The titles of the patents are classified in accordance with the principal features on which they are based, under the following headings:-

A. Reduction of Temperature. B. Deprivation of Moisture.

C. Salting. D. Exclusion of Air; and

E. Antiseptic Agents.

Each of these is again further divided. The antiseptic

agents are subdivided into (1) sulphurous and nitrous acids, sulphites and nitrites, sodium, and other substances described as having an affinity for oxygen; and (2) various substances used for preserving, including somo used in connexion with, or as substitutes for, salts, spices, etc.

We have often heard that patentees are likely to end their days in a lunatic asylum, and we should think that many of the goutlemen whose discoveries are recorded in these pages are in danger of such a fate. Thus—I. Levs "impregnates are in danger of such a fate. Thus—I. Leys "impregnates cheese with rum, immerses in bath of salt and saltpetre for ten minutes, dries, covers with boiled linseed oil, and coats with tinfoil," E. Slack "treats potatoes for preserving with acids. and alkalies, as also with diastase and other saccharine matters; while J. Avery "kneads butter with alchohol (sic), wraps in paper dipped in alchohol, and, for long sea voyages, packs in air-tight cases.

FOREIGN CORRESPONDENCE.

FRANCE.

THE QUESTION OF RESECTION AND AMPUTATION.

(From our own Correspondent.)

VERSAILLES, January 21.

Arran having made several effects visit and to get permissions to visit the different ambulances of Versal not get permissioning here in any official capacity, I perhaps had no right to ask), and after having been sent from pillar to post about the matter, I at last addressed myself, armed with an excellent letter of introduction, to demend Agra-Dr. Stromeyer, the Consulting-Surgeon of the Châtean Ambulance, hoping that he might assist me in my demand.

Unlike to the treatment which I had thus far met with, this entleman received me with the greatest kindness. The day for calling was rather an opportune one: the great Surgeon had just received from the hands of the Emperor of Germany the Iron Cross of the first class.

the Iron Cross of the first class.

Speaking of gunshot wounds of the joints of the lower extremities, I learnt that out of the number (?) of hip-resections so far practised around Paris, only one is doing well. For the same injuries of the knee-joint, Stromeyer advocates primary amputation. He is not in favour of resections, nor a friend of Professor Langenbeck's system in these cases—riz, non-interference. In gunshot wounds of the tibio-tarsal articulations are considered to the contraction of the co interference. In guission would be the contrary, recommends the expectant treatment, by means of which several cases have been saved after Sedan and also here. He is opposed to the resection of this joint as well—a method which thus far in this war has given bad results.

Stromeyer's plan for treating gunshot wounds of the anklestrongers a pain for treating gunanot wounds of the anklejoint, is simply to keep the parts perfectly immovable, and extract the pieces of splintered bone as they become detached. He is of opinion that a chassepôt ball, being exceedingly slender, may traverse the joint from one malleclus to the otherpassing, so to say, through the ankle—and force out with it the portions of cartilage or bone struck. With the old minié ball, such a state of things would be less likely to take place.

Upon being asked my own views on the matter, I stated that I had always considered penetrating wounds of the tibio-tarsal articulation demanding amputation in nearly every instance, and I thought a cure without Surgical interference must be looked upon rather as an exception than the rule. However, in proof of the success from the expectant treatment, I am able to cite the two cases here annexed one under my own care,

the other here in a convalescent ambulance.

It will be some time yet, I imagine, before Surgeons can lay down any rule as to the steps to be taken in gunshot wounds of the articulations of the lower extremities, and such wounds will ever remain the most interesting in military Surgery. While this point is now pretty well decided in favour of resection for the joints of the npper extremities, most army Surgeons reject that operation for the lower members, and the great point of discussion here existing seems to be tween amputation and non-interference.

amputation and non-interterence.

The two great Continental Surgeons, Stromeyer and von Langenbeck, hold views opposed to each other. In Stromeyer's pamphlet on this subject, made up from material of the war of 1866, he advocates the opinion which I have just quoted; whereas, von Langenbeck, in another pamphlet written on the same subject two years later, in 1868, and based upon cases collected in the same war, recommends non-intervention in gunshot wounds of the knee, and, of course, speaks in favour of his own operation, the resection of the ankle-joint. I remember, when perusing these two works for the first time, some two years ago, I could not help thinking Berlin wrote as though it had a slight pique against Hanover.

As regards the ankle-joint, I will now briefly give the two cases which have come under my own observation; both go to

support Stromeyer's views on the matter.

Case 1.-R., volunteer in the 90th regiment of the line (French), wounded at the battle of Gravelotte, August 16, in the right foot while in the act of firing-that is to say, with inner border of right foot turned towards the enemy; ball entered at base of internal malleolus, traversing the tibio-tarsal articulation in a transverse direction, passed out an incl. above external malleclus with fracture of the fibula, seven centi-metres higher up, about the lower third. Whether this fructure was due to the projectile itself, or brought about by the subsequent fall of the body and a turning of the foot outwards, I could never clearly make out, inasmuch as the man had been struck by another ball in the occipital region, which felled him to the ground senseloes. Amputation having been refused, I simply placed the limb, slightly elevated, in a wire gutter, and applied cold water dressines. A few bits of bone and cartiage came away after suppuration had set in. The limb became enormously swollen, and I was obliged to enlarge the opening enormously swollen, and I was obliged to enlarge the opening on the outer surface. An immovable apparatus was applied the twelfth day, and renewed four times during the course of the surface of the sur into my tent ambulance. Suppuration was at that time very scanty, both wounds nearly closed, and I have every reason to believe that the cure is to-day complete, with anchylosis of the articulation

Case 2 .- H., soldier in the 42nd regiment of the line (French), wounded at Choisy-le-Roi in the sortie from Paris on Sep-tember 30, the ball having traversed the left ankle-joint, in a perfectly straight line, from the external to the internal malleolus; was treated in a Prussian ambulance at Villeneuve-le-Roi by un immediate application of plaster of Paris apparatus, which An immediate apparation or passer of trans apparatus, winco, was removed the third day, reapplied, and again removed the third day. From this time on, the limb was put into a wire gutter. The patient was transported to 'versailles by the International Society on December 23, since which period the case has come under my observation. The ball, in traversing the joint from side to side, seems to have bored through as though it had been done by the trepan. Both wounds are almost completely healed up; the deformity of the ankle is very moderate, and flexion and extension of the foot are possible to the extent of 8° or 10°. Indeed, this is the most remarkable sure I have ever met with. Alcohol and water were used as dressing in the first, carbolic acid in the second patient.

GENERAL CORRESPONDENCE.

ARMY MEDICAL PRACTITIONERS.

LETTER FROM DR. J. HUGHES BENNETT.

[To the Editor of the Medical Times and Gazette.] Sin,—Allow me to say you have been misinformed as to what I stated at the Medico-Chirurgical Society of this city. I never alluded to Army Medical Practitioners, or made any charge against them whatever. I detailed the particulars of a case of abscess of the liver, which had been salivated in India case of abscess of the liver, which had occus shirated in angus and again in this country, and pointed out the inutility and injury such practice produced. My allusion to thousands of soldiers so treated (and I might have added of civilians also) referred to the almost universal practice which formerly pre-valled, as is well known to anyone acquainted with the litera-ture of the Profession. Dr. Rutherford, in his communica-tion, tried to show that the man had never taken mercury in India; that the violent salivation and stomadtis produced in India; that the violent salivation and stomadtis produced in Jhand, in 1802, was mysterious (?); that his treatment by mercury after his return to England was trifling; and that his skin disease was a purely venered one. In this argument he signally failed, as will be apparent when the full particulars of the case are published.

I regret that, since seeing your last number, I have not been able to find time to answer your remarks at greater length, the more so as I have written an abstract of the case to another journal. I would beg your readers, therefore, to suspend their

judgment on the matter until they see my communication. In the meantime, I utterly deny the imputations and allegations of Dr. Rutherford, which are founded on a complete misapprehension of what I stated.

I am, &c., J. Huon 1, Glenfinlas-street, Edinburgh, January 30. J. HUGHES BENNETT.

REPORTS OF SOCIETIES.

OBSTETRICAL SOCIETY OF LONDON.

ANNUAL MEETING. WEDNESDAY, JANUARY 4.

Dr. GRAILY HEWITT, President, in the Chair.

THE following gentlemen were elected Fellows of the Society : 1318 following gentlemen were elected fellows of the Society: Fletcher Bench, M.R.C.S.; George Bastes, M.B., F.R.C.S.; G. D. M'Callum, M.D. (Montreal); Edward Malins, M.P. (Gradley Heath); David Mathias, M.R.C.S.; (Cardigan); G. H. Pedler, M.R.C.S.; James Perrigo, M.D. (Montreal); Arthur Boberts (M.R.C.S.), Kensington; and John Tanner, M.D.

Dr. CLEVELAND exhibited a Fortus, of about the fifth month,

with the cord curiously knotted round the meck, which had apparently caused its death.

Dr. Playrane exhibited a Pessary, the invention of a patient, which ingeniously combined the advantages of the stem and Zwanke's pessary, with a contrivance for easily opening the

icaves.

Dr. C. Kidd read a paper "On Chloral Hydrate and Chloro-form in General Obstetric Practice, especially in Labour Cases."

Dr. Pulluris had no experience of chloral in natural cases,
hut, during the past nine months, had used it extensively in the puerperal state, especially in five cases of puerperal munia, and two of puerperal convulsions. In four of the five cases of must be described been very beneficial, while in the fifth it failed to produce sleep, though given in full doses. In one case of mania the patient had no sleep for three days, though many the patient had no sleep for three days, though all a drachm of bydrate of chloral she fell asleep for four hours, and again for five lours more. In another case, on the fourth day it was given in full doses, and the next day the patient was quite rational. The chloral hydrate was very suitable in the restless, sleepless condition not uncommon after delivery. A drachm dose produced no effect in one case of convulsions, while in another, in which the paroxysma were severe and frequently repeated, the action of the chloral was very marked. It was very satisfactory, such a favourable account of chloroform in obstetric practice from one so accustomed to its use as Dr. Kidd was. He (Dr. Phillips) had seen it used extensively in abnormal labours without untoward effects, and this notwithstanding that he had had it used continuously for twelve consecutive hours in puerperal convulsions.

Dr. Wiltshire asked for information about the change of obloral into chloroform in the blood. He believed that state-

ment had been called in question.

Dr. HEYWOOD SMITH also took a favourable view of the action of chloral in puerperal affections. He narrated a case of pnerperal peritonitis with vomiting, in which he had given sixty grains, repeated in three hours with the best effect.

Dr. PLAYFAIR said he had found chloral of the greatest value, both in natural and abnormal labour, but thought that it was somewhat unsafe to give it in such large doses as sixty grains, repeated in three hours. He mentioned a case of pucr-peral convulsions, in which it had acted admirably, but in which the patient eventually sank; and said he was unable to divest himself of the fear that the chloral, which had been given freely, might have had something to do with the fatal

Dir. Kino asid that Liebreich's theory was now pretty generally received. In labour cases the chloral seemed to be specially useful in the first stage—relieving restlessness, etc.— without stopping uterine action. Dr. Kidd insisted on a simple apparatas for giving chloroform, objecting to balloons, tubes, etc., as likely to frighten the patients.

PRESIDENT'S ADDRESS. The PRESIDENT congratulated the Society on having reached

the end of twelve years' uninterrupted prosperity. During the past year thirty-nine new Fellows had been elected, and Honorary Fellows, Drs. West and Arthur Farre. The Society had to lament the deaths of Dr. Fenton (Gateshead), Mr. Robinson, Dr. Chowne, Dr. Ewell, Dr. Uvedale West, and Sir

James Simpson, the latter an Honorary Fellow. Sir James Simpson, who had done so much for Obstetrio Medicine, was endowed with an intellect of extraordinary power—wide, deep, limitless, inexhaustible; possessed of a frame of wonder-ful strength, capable of sustaining him through great physical labours, enabling him almost to dispense with rest; a dispo-sition kindly and humane, almost beyond conception; a largeness of heart only equalled by the greatness of his intellect; a manner winning and captivating to an extreme degree. His great character was his many-sidedness. The extent and range of his works precluded any attempt on this occasion to summarise them. His chief discoveries were then enumerated.

The question of amalgamation with other societies had occupied much attention during the past year. The President believed that the Society was to be congratulated on the result. Other societies besides the Obstetrical had found the scheme Other societies occured the Conteriors and found the scheme unpalatable, and the idea was finally abandoned. Ho, was glad to be able to transmit the possessions and powers of the Society to his successor unimpaired, the Society being still free,

Society to his successor unimpaired, the Society being still free, unfettered, and able to develope its resource. Review of the Treeter Verel' Work of the Society.

The President deemed this a fitting occasion for passing in review the work of the last twelve years. He premised that the judgment given as to propress in particular subjects was his individual judgment only, but craved indulgence in his attempt to show how or in what the Society had advanced stempt to show how or in what the Society had advanced obstetric science.

Many valuable statistics had been collected as to the practice of mideritery in Great Britain, and certous information regarding practice in India. The cease "On Obstructed Labour," by Dr. Hicks, would convey much information as to how and when to give assistance. The external pressure treatment of the third stage of labour, advocated by the late Dr. Eastlake, was a valuable improvement. From the papers of Mr. Ellis, Dr. Kidd, and Dr. Sansom, much had been learnt as to the use of chloroform in midwifery. The general result of discussions was that chloroform should not be given to the full extent in ordinary cases; that it should be diluted, and that, when given relative sections against hemorrhage were needed. A new form of pelvic deformity, "spendylolithesis," had been added to our list, and Dr. Barnes had contributed an able paper on the subject.

Concerning the great conservative lustrument, the forceps, the Society had done much to further its usefulness. In an able paper by Dr. Tyler Smith, the sentiments of which were endorsed by the Society, the old maxim to wait some hours when the head is on the perincum, to be able to feel the cars, to wait for the full dilatation of the os, to avoid entrance of to wast for the run unstation of the os, to avoid entrance of the blades into the sterns, to avoid all compression of the head, were repudinted. These maxims injuriously interfered with the operation. Mr. Harper land urged the matter in like manner, but the Society had still work to do in urging a further use of the instrument. The form of the forceps had further use of the installation of sufficiently long-bladed forceps been considered, and the use of sufficiently long-bladed forceps with newerful handles had been insisted on. The new opera-

with powerrul nandles had been insisted on. The new opera-tion by Dr. Hicks of bi-manual version was then calogised.

The great question of Turning rerus Forceps had been admirably elucidated by Dr. McClintock. Regarding craniotomy, Dr. Hicks had revived most advantageously the know-ledge of a fact alluded to by Osborne and Burns—that the feetal head passed more readily when the face was presented to the narrowed aperture of the pelvis, the cranial bones being first removed. Dr. Barnes had suggested a new method of cutting the head into pieces by a strong écraseur wire. Cephalotripsy had now become, mainly through workers in this Society, a British operation. The instrument had been greatly improved and lightened by Dr. Hicks, and the operation

The Cosarian section had been often discussed; improve-ments in craniotomy had made the operation less necessary, but it was not to be avoided in certain cases, and valuable facts had been collected. The valuable contributions of Barnes and Lazarevitch to the question of the induction of premature labour were next described; the best method was, perhaps, not quite decided. Injection of water to the fundus nteri gave good results in Lazarevitch's hands; the dilatation of the good results in Jazareviten's innus; the timatation of the cervix method gave command as regards time. Some still thought very highly of simple puncture of the membrane, himself included. Concerning normal puerperal temperatures, Mr. Squire had given valuable data. Dr. Oldham had attacked the low-diet system in the lying-in room in a manner entirely in sympathy with his own (the President's) views. Under the name "concealed accidental hemorrhage." Dr. Hicks had defined and described a dangerous and important complication.

before unrecognised. Dr. Greenhalgh had, for the first time, orror unrecognised. Dr. creeningin and, for the first time, urged the propriety of bringing on premature labour in cases recognised as placenta previa. Regarding the treatment, the Society had expressed itself in favour of an eelectic method, on the whole, rupture of the membrane and turning being in favour. For otherwise intractable post-partum ha-morrhages, Dr. Barnes had suggested a new remedy-the injection of perchloride of iron into the uterus; this remedy must still be con-sidered as on its trial. Transfusion had been discussed by Dr. Waller, Dr. Aveling, and others. Peritoneal adhesions of the uterus had been shown to be an occasional cause of post-partum

Rupture of the uterus had been shown to be largely attributable to a rather narrow pelvis, in a paper by Dr. Radford. On inversion of the uterus and retroversion of the gravid uterus, Dr. Tvler Smith had attributed new facts: the retroflexion exists before the pregnancy. From Drs. Barnes, Wade, and Playfair, we have had valuable papers on embolism, thrombosis, and sadden death during and after labour—a new field bosis, and andeen death during and after labour—a new field of pathology; generous support of the patient as a preventive seems to be the inference. Dr. Tilbury Fox a three valuable papers on philogenasis dolera were next described. On puerand erysipelas shown by Dr. Tilbury Fox, its frequent association with searlet fever, by Dr. Brek, Mr. Mitchell, and the President; Dr. Tyler Smith's case, in which injection of amonia into the blood was performed. He believed that the good effects of large doses of stimulants in these cases had all Dr. Hicke's on convulsions preceding albuminaria were next. and Dr. Hicks's on convulsions preceding albuminuria were next mentioned.

Eighteen cases of extra-nterine fortation had been described; as yet, the proposed operation for some of these cases had not been performed. Dr. Priestley had shown the importance of removing the secundines in cases of abortion as soon as possible.

In the department of the diseases of women, much progress had been made. The question of the relation between flexions, nma seen mase. Ane question of the relation between flexions, inflammation of the uterus, irritable uterus, and the relief of dysmenorrhoa had been frequently discussed. Dr. Marion, Sims, Dr. Greenhalgh, Dr. Till, Dr. Barnes, Dr. Meadows, Dr. Savage, and others had contributed to the clucidation of these subjects. Personally he would refrain from stating positive conclusions arrived at, but he thought all were agreed positive contensions arrived at, but he thought all were agreed flustoms to uterine disease. Ovariotomy had mainly green into existence since the formation of the Society, and twenty-three contributions on the subject had been offered. The present success of the operation was a proof of the green energy of the Bittish mind when it was once induced to take versety or are prisin mind when it was once induced to take up a subject. On fibroid tumour of the uterus, and polypi, many papers had been read. Cancer of the uterus had been apparently advantageously treated by bronine, by Drs. Routh and Wynn Williams.

On the subject of the diseases of children, the Society had on a supert of the discusses of contarion, the Society had the some good work. Dr. Little's paper on the connextion as nost valuable one. Mr. Squire had investigated the temperature of infants. Dr. Tibury Fox lud started a possibly very important theory as to the cause of rickets. Of minoration, upwards of fifty cases had been recorded in theorems of the contact o

Transactions

Lastly, the important and long-continued action of the Infant Mortality Committee, appointed at the suggestion of Dr. Farre, had come to an end; and the recommendations as to the rearing of infants, now just about to be issued by the Society, as to the necessity for improvements in penal enactments, as to the necessity for the registration and better education of midwives, which had been carefully matured by the Committee and by the Conneil, will, it is to be hoped, bear good fruit in the future. In conclusion, the President, in taking leave of the Society,

thanked them for so kindly assisting him in the performance of his duties during his two years of office.

THE PATHOLOGICAL SOCIETY. TUESDAY, JANUARY 17, 1871.

Mr. HILTON, F.R.C.S., President, in the Chair.

AFTER a few words from the new President.

Mr. FAIRLIE CLARKE proceeded to show a Fractured Skull. The patient had been a coachman, and, by a collision, was precipitated from his coach, and struck the right side of his head

violently. When brought to the Hospital he was bleeding from the ears, but there was no external lesion; he gradually from the ears, but there was no external menon; he gradually improved; all at once, however, he got worse; rigors came on, coma supervened, and he died. It was then found that the petrous portion of the temporal bone was extensively comminuted, and there was a little extravasated blood which had begun to soften, but there were no signs of meningitis.

Mr. JAMES ADAMS showed a specimen of Fracture of the Head of the Radius alone. The man died from the results of a fall from a great height, whereby he had suffered many important injuries. The capsular ligament of the elbow-joint was torn, and the outer third of the head of the radius separated, and that again was divided into two parts. There was no injury to the humerus or ulns. As far as he knew, no

similar case was on record.

Dr. E. Crist showed a specimen of Ulcer of the Stomach, giving rise to fatal hemorrhage, in a woman, aged 62. She had been dyspeptic, but one night brought up a quart of blood. This recurred twice, and she died. There was a very small This recurred twice, and she died. There was a very small user at the lower part of the stomach, on its posterior wall, and an opening into a small artery was visible in the ulcow. Was there any special disease of the arteries in these cases, as other patients frequently lost much blood, and yet recovered?

Mr. Cykaxko said that in perforating ulcers of the duodenum

the arteries were often pierced.

Dr. MURCHISON said his cases were brought before the Society on account of the exceedingly small size of the fatal ulcers. A man might often suffer from duodenal ulcer and yet die from some other cause, as tubercle. The vessels in the ulcer were frequently plugged.

Dr. Douglas Powell said vessels exposed on one side might give way from pressure. They were often plugged in passing through cavities in the lungs.

through cavities in the lungs.

Dr. Cause exhibited a specimen of Cancer of the Tongue.

The patient had suffered from bronchitis and sore-throat. She
disappeared for a time. When she again came, she had swelling at the angles of the jaw; there was great pain, and she
was able to take fluids only. After a time she could swallow
nothing. The tongue was hard, contracted, and ulcerated at
the base, and the traches was forced on one side. There was a kind of valvular stricture in the œsophagus, and ulceration of

the epiglottis. (Referred to Committee.)

Mr. Wasstaffe exhibited a specimen of Cystic Sarcoma of
the Lower Jaw, removed from a patient in St. Thomas's Hospital by Mr. Le Gros Clark. The tumour involved the left angle of the jaw, and distended the bone from just below the condyle to near the symphysis. It formed a tumour about the size of a large egg. The structure was cystic, with a firm sarcomatous large egg. The structure was cystic, with a firm sarcomatous matrix. The features of chief interest were the existence of numerous small endogenous cysts in the interior of the larger cysts, the endogenous cysts taking origin in the opithelial lining, and being readily isolable; and the arrangement of the sarcomatous growth as cylinders or acini, running tortuously through a fibro-nucleated matrix. (Referred to Committee.)

There was also exhibited for Dr. Whitehead, of Manchester,

a specimen of peculiar Sputum from a woman, aged 24. She had a voracious appetite, no cough, and the chest-sounds were nad a voracous appetite, no cough, and the clust-sounds were normal. The expectorated matter was raised involuntarily by hawking. The pieces varied in size, most frequently being of the diameter of a cedar pencil. He concluded it was a case of mucous disease, like that described by Dr. Andrew Clarke as occurring in the colon, especially as similar masses were passed by the bowel. Dr. Powell reported of the specimen that it consisted almost entirely of stratified epithelium bound together

consisted admost entirity of strained epitician bound operator by mueus. It probably came from the pharyax or occophagus. Dr. Carse thought it curious the pieces should be hawked up. Girls, he said, played strauge tricks. One, he remembered, gave rise to much discussion from a habit of swallowing snails

and bringing up again the judigestible portions. Mr. ARNOTT thought there could be no doubt of the nature of these

Dr. PAYNE exhibited specimens from two cases of Pyamia. The first of these cases was that of a man, aged 31, admitted into St. Mary's Hospital, under Dr. Sibson's care, with high febrile symptoms, brown tongue, offensive breath, etc. There was a tense and painful swelling of one knee-joint, and a peculiar ulcerative affection of the face, depending on purulent infiltration of the skin, such as is occasionally met with in The case was regarded as one of pyremia, and ter-stally. At the autopsy, the lungs showed a few inpyzemia. In the subject of the subje

munication between the right innominate vein and an obsolete scrofulous abscess. The opening was very distinct; but from the sheltered situation of the abscess, and the small amount of pressure which could have been exerted upon it during life, it seemed probable that only a very small amount of material could have passed into the veins. The contents exhibited no could have passed into the veins. The contents exhibited no pus cells or other formed elements, but had simply the ordinary appearance of degenerated scrofulous material. The second case was clinically very similar. The patient was a youth of 18, who came into Hospital with fixed inflammation of several joints, and subsequently had ulcerative affection of the face similar to that seen in the first case. There were also febrile and other symptoms, which led Dr. Sibson to regard it as a case of pysemia. At the autopsy, the lungs were found to have entirely escaped pysemic infection, but several joints contained pus. The only lesion which could possibly be regarded as the source of blood-poisoning, was an adherent, softened thrombus, partly filling the longitudinal sinus of the dura mater, and continuous with a similar thrombus in a small vein coming from the brain, which was distended, evidently by inflammation of the contained clot. There was also the somewhat rare affection, inflammatory lymph on the inner surface of the dura mater without participation of the true arachnoid or pis mater. There was uo disease of the brain or cranial bones, and some pathologists might have been disposed to regard these lesions as the consequence rather than the cause of pyremia; but it was plain that, when once established, they must have been a potent source of blood infectiou. The interest of the two cases lay in their bearing on the causation of pyremia. Though not directly supporting, they were nevertheless not inconsistent with the views of those who regard capillary embolism as a main factor in the production of local lesions in pyemia, whatever may be the cause of the general febrile state-for experiment has shown that solid particles may be of such a fineness as to pass through the pulmonary capillaries without producing any effect, and yet become arrested in the systemic capillaries; and this might especially be the case with a fine embolism, such as that of scrofulous material.

In reply to Mr. Spencer Wells, it was stated that in the second case the affection of the face appeared after the other symptoms. The first patient thought he had knocked his knee

est of all.

Mr. BARWELL thought the abscess must have been emptied long before the onset of the symptoms, and he could not see why its contents had escaped the lung, or why one knee-joint only was affected.

Dr. Murchison thought no pathologist of the present day

would contend that pyemia was due to pus as pus, as Mr. Barwell had supposed. The pyemia following on the opening of this abscess, which had no external opening, had a certain

of this noscess, which had no external opening, and we bearing on the germ-theory.

Dr. Paynrasaid Wagner had shown that particles might pass through the lung and yet be arrested elsewhere. In this so-called abscess the matter was exceedingly fine.

Dr. Payne also exhibited some specimens of Cysts from the eritoneum, containing air. The surface of great part of the Peritoneum, containing air. The surface of great part of the ileum was found beset with bunches of air cysts, or pendulous bubbles, with occasional hemorrhage. The composition of the air was found to agree with that of the gases sometimes contained in the stomach, being essentially atmospheric air, with an excess of carbonic acid, and a diminution of oxygen. There was no communication with the intestines, and the case might have suggested a revival of the theory of pneumatosis, or secretion of air, held by the older pathologists. A possible way of entrance was, however, found in a deep ulcer of the pylorus, which, from the distension of the stomach observed during life, must have been commonly exposed to the gastric air, and might have given rise to a peritoneal emphysema, and the vascular dilatations of the serous coat thus produced might have been gradually converted into pedunculated bladders, cysts of any kind being practically unknown in the peritoneum. A some-what similar case of emphysema of the disphragm had been

brought before the Society some years before by Mr. De Morgan.
Dr. Broadbent showed some specimens of Purpura, probably scarlatinal. The skin was affected in both cases, also the intestines, pharynx, and heart. The condition had been unusually frequent of late at the Fever Hospital. It began about the fourth day. If life lasted two days longer, there was a dis-charge of blood from the mouth and bowels. A similar condition was said to prevail with small-pox just now.

ENG, one of the Siamose Twins, is reported to be

NEW INVENTIONS.

IMPROVED BLOWPIPE FOR ANATOMISTS.

By H. A. A. NICHOLLS.
(Manufactured by Arnold and Sons,
35 and 36, West Smithfield.)

Taus blowpipe possesse many advantages over the ordinary dissection one. It consists of a blowpipe, with the addition of a steel stillette, at the end of which is a trocar-point. The blowpipe now in use is continually getting blocked up, in consequence of the addition of a new section of the consequence of the section of the consequence of the constant of the consequence of the section of the consequence of the section of the consequence of the consequence of the time useless to the student. It is obvious the new instrument overcomes this difficulty. For instance, in inflating the abdomen, the blowpipe, by measure of the trocar-point which projects beyond the trocar-point which projects beyond the trocar-point which projects beyond the trocar-point of the consequence of of the c

The annexed figures represent—one the canula or blowpipe, with the trocar or needle inserted, and projecting at the extremity; the other, the stillette withdrawn

NEW DISSECTING "PEG" AND DISSECTING CASE.

Mn. Pranux, of King's College, has brought to our notice a new peg to be used in connexion with the ordinary dissecting hooks. The advantages gained by the use of the peg to the dissector are: 1st, the peg can be screwed readily by its gimlet end into the chain hooks appended to it. 2nd. If tension of a nerve, artery, nussele, or any other tissue is required, it can easily be effected by a few turns of the peg, which will wind the chain up without the position of the hooks being altered. In maintaining a limb will prove more serviceable than the hooks alone now in use.



Matthews Brothers, the makers of the new peg, have 1st brought to our notice an admirable dissecting case. It is made of japanned tin, like the little boxes used by artists to carry their colours in. It is a model of cleauliness, compactness, and durability, to say nothing of its cheapness. It will stand for years the dissecting-room wear, and only requires washing to make it almost as good as new. Of its superiority

over the old wooden case there can be no question. A fall from the dissecting-room table is fatal to the integrity of the wooden case, whereas it is not the slightest detriment to the new one above mentioned.

LEGAL INTELLIGENCE.

At Bow-street, Charles Gerard, described as a teacher, of 50a, Lincoln's-inn-fields, and Reuben Newport, a printer, were charged with having incited Epaphroditus Eatley to steal a copy of one of the examination papers of the Apothecaries copy of one of the examination papers of the Aponiceuries Company, and with having received the same, etc. Mr. Mullens conducted the presecution, and Mr. G. Lowis, of Elyphace, defended the presence Gerard. Mr. Abrahams appeared for Newport. Mr. Mullens explained the nature of the alloged offence, observing that the object for which the paper was sought was to enable the defendant Gerard to "cook" one sought was to enable the defendant of the wormination of the songth was to enable the defendant Gerard to "coath" one of his pupils prior to the day fixed for the examination of the students. E. Eatley deposed that he was a proof-puller in the employ of Mosers. Gilbert and Rivington (mitorhowell, Apothecaries' Company), St. John sequence, Richer word han two years ago of the puller of the coather of the coath Rather more than two years ago the prisence Newport sent as message to him by a boy to meet him at the Coach and Horse public-house, in the neighbin doed of the printing office. Witness had never each bin before, but found that was in the printing trade also. Newport told him that the printing trade also. Newport told him that the printing trade also. Newport told him that the produced from his pocket a copy of one of the printed examination papers of the Apothecaries' Hall. He asked witness if he could get copies for the next examination, if he were paid well for his trouble, adding that it would never be known. He offered £5 for a copy. Witness said he would think it over, and appointed to meet him again. In the meantime he reported the interview to his employers, and with their sanction he kept the second spagain. In the meantime he reported the interview to his employers, and with their sanction he kept the second ap-pointment, when he was taken by Newport to the chambers of the other prisoner, Gerard, in Lincoln s-inn-fields, on the top of the other prisoner, Gerard, in Lincoln's-inn-fields, on the topflow. Newport introduced him to Gerard as the person who
wanted the examination papers. Witness said he had never
done anything disgracted by ets, and declined their proposals.
They seemed surprised, and begged him to keep the sfair quiet,
but he reported this interview to his employers. About seven
months after this Nowport met him again accidentally, and
alluded to the subject, saying the six would have been a good
lining for him.
September last, when witness was spending
the first proposed that the subject saying the six would have been a good
thing for him. Eagle Tavern, Newport came up to him, and
again pressed him to oblige Mr. Gerard, promising him £10 if
would get a cowy of the next examination paper in January. again presect him to odige art. veraru, promising mid Zivine he would get a copy of the next examination paper in January. Witness reported all these interviews to Messrs. Gilbert and Rivington, his employers, and eventually, with their sanction and with the connivance of the police, he went on January and with the confivence of the police. and with the confirmance of the pouce, he went on January II with Newport to the chambers of Gerard, and delivered a copy of the paper required, on receiving £10 in gold from the prisoners. This transaction was reported to Inspector Mulvany or the second control of the property of the p had received from Gerard, and whital and of both the prisoners. Witness told them who he was, and, with the assistance of Sergeant Butcher, took them both into custody. One of the officers of the Apothecaries' Company alleged that he always received the examination papers from the printers, and took every precaution to let none of the students have them until the day of the examination. For students nave them until the day of the examination. For the defence of Gerard, Mr. Lewis, in an elaborate speech, said he did not deny that the prisoner had been guilty of gross impropriety, but he contended that the charge did not amount impropriety, out he contended that the charge did not amount to a felony. His client was a most respectable and well-educated man. He had incited (very improperty, it must be admitted) Eatley to procure certain information, but not to steal. One of Gerard's pupils had failed to pass the preliminary examination, and his father declared that, if he failed again, he

would assist him no further. Gerard was, therefore, most anxious to be able to assist his pupil to translate certain senanxious to be once to assist his pupil to translate certain sentences which were considered necessary in Medical examinations. He hoped Mr. Flowers would deal with the case summarily. Mr. Abrahams contended, on behalf of Newport, that he was working innocently for Mr. Gerard. Mr. Flowers determined to sentence the summary of the control of the contr determined to commit both prisoners to the Old Bailey to take their trial. Mr. Flowers consented to take bail-two sureties in £50 for each of the prisoners.

OBITHARY.

STAFF SURGEON-MAJOR MCARTHUR.

WE regret to record the death of Staff Surgeon-Major Alexander McArthur, M.D., formerly in the Military Train, but latterly on duty at Woolwich. Dr. McArthur was under orders for the West Indies, and his death was quite unexpected. He had been ailing slightly for the last few weeks without presenting any alarming symptoms, and having retired to rest at an early hour on the evening of January 25, was found dead in his bed on the next morning. The cause of death was found to have been degeneration of the heart. He entered the service in April, 1849, and obtained his promo-tion to Surgeon in May, 1855. He served with the 7th tion to Surgeon in May, 1855. He served with the 7th Fusileers in the Crimea, from September, 1854, till May, 1855, and was present at the capture of Balaklava, the battles 1800, and was present at the capture of Balakawa, the battless of Alma and Inkerman, the siege of Schastopol, and the sortio of October 26. He received the Crimean medal with three clasps, and the Turkish medal. He afterwards served in India during the nutliny in 1857 and 1858, being attached to the 9th Lancers throughout the operations resulting in the relief of Lucknow by Lord Clyde, and was wounded on November 14, 1857. For these services he obtained the Indian

November 14, 1897. For these services neocotained the latest medal with clasp, and a year's service for Lucknow.

He was a general favourite among his brother officers, among whom his sudden death has created a saddening blank. He was interred, with military honours, at Plumstead, on Tuesday, the 31st ult., the funeral being attended by many of the officers of the Garrison, including His Royal Highness

Prince Arthur.

MEDICAL NEWS.

ROYAL COLLEGE OF PHYSICIANS OF LONDON.—At the ordinary quarterly meeting of the College on Thursday, January 26, the following gentlemen, having passed the required examinations, were admitted as Members:—

Garstang, Walter, M.D. St. Andrews, Blackburn. Stocker, James Reginald, M.B. Lond., Guy's Hospital.

ROYAL COLLEGE OF SURGEONS OF ENGLAND .- The following gentlemen, having undergone the necessary examinations for the diploma, were admitted Members of the College at a meeting of the Court of Examiners, on the 26th inst., ricket Bradley, Richard Briddon, Life, P. Zhila, Botcheyer, of the Manchert School, rates, I. S.A., feston Benger, near Chippenham, of 8t. Bartholomer's Ropolital.
Cook, Thomas, M.D. Tarts, New-cross.
Cook, Thomas, M.D. Toronto, M.D. Toronto, Montreal, Cook, J. (Blinghould, Oldern, Sannel, L. B.A., Britinghould, Oldern, Sannel, L. B.A., Britinghould, Of 8t. Thomas's Hospital.
Wilkins, George, M.D. Toronto, Montreal, of 8t. Thomas's Hospital.
Wood, Jobert Atthur Henry, L. S.A., Liverpool. at a meeting of the Court of Examiners, on the 26th inst., viz. :

APOTHECARIES' HALL.—The following gentleman passed his Examination in the Science and Practice of Medicine, and received a Certificate to practice, on Thursday, January 26, 1871 :-

Renton, William, Knaresborough, Yorkshire. The following gentleman also on the same day passed his First Professional Examination:—

Elphinstone, George Kidson, London Hospital. At the Preliminary Examination in Arts, held at the Hall of the Society on January 27 and 28, fifty-one candidates presented themselves, of whom twenty were rejected, and the following thirty-one passed, and received Certificates of Proficiency in General Education, viz.:-

In the First Class, in Order of Merit.

1st. Harry Welchman. 2nd. Bernard Faraday Giles, Herbert Sioman, and James Taylor.

In the Second Clave, in Alphobetical Order. Annersley, Wm. Oliver Tyndalt. Hateman, A. G. Blackmore, George H. Bringloe, Capel W. Collier, Herbert, Cotton, Bushand Coller, Herbert. Cotton, Herbert. Creed, Charles Philip. Crowther, Arthur B. Donnan, John Eustace, Fabling, Robert. Gilbert, Robert. Goodsall, F. W. W. Grimwood, Hurry C. Gunn, John J.

Hancock, Charles James, Jones, M. L. Bowen. Keeling, George R. MacArthur, C. E. A. Marr, Frederick. Marr, Frederick. Millne, F. Länder. Mozon, William. Oakley, Harry Callander. Bowland, Albert M. Savidge, Arthur. Shadwell, St. Clair B. Watson, Thomas Davis, White, Octavius.

• . The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place,

ALLINDIAM, J. R., M.R.C.S. and L.D.S.—Associato Dental Surgeon to the Chester General Infirmacy. ANDREW, E. D.W.Y., M.D., F. R.C.S., Assistant-Surgeon 1st Administrative Battalion Shropshire R.V., to be Surgeon, eder W. J. Clement, M.P., deceased.

BIRTHS.

GRANT.—On January 20, at Cairo, Egypt, the wife of J. A. S. Grant, M.D.,
Egyptian Government Medical Service, and Resident Physician, Cairo, of a son.

of a sol.

Yooos.—On January 24, at Chatham, the wife of Henry Charles Woods,
M.D., Royal Navy, of a son.

Woods, —On January 27, at Wilton House, Shooter's-hill-road, the wife of Surgeon D. Woods, Royal Artillery, of a son. Young, —On January 24, the wife of George Edmund Young, M.D., of a daughter.

MARRIAGES.

BETT-HANDY-On December 1, 1807, at the Church of the Hely Trinity, Hamilton, Bernauda, William Freeland Inett, Brevet-Colonel dist Bert. Many Barry, chlest daughter of the late Adolpha J. Harry, M.D. DENSIFON DECEMBER 23, 44 Allahabat, J. L. Denniston, M. B.C.S., and nice of the late V. Niebole, Ser., Constr. Court Jodge, Birmingham, of 2, South-villas, Camplen-Lie, Control Court Jodge, Birmingham, of 3, South-villas, Camplen-Lie, Control Court Jodge, Birmingham, of 3, South-villas, Camplen-Lie, Control Court Jodge, Control Court Jodge, Birmingham, of 3, South-villas, Camplen-Lie, Control Court Jodge, Control Court Jodge, Birmingham, of 3, South-villas, Camplen-Lie, Control Court Jodge, Control Court Jodge, South-Bert, J., Control Court Jodge, Control Cou

TACOR—PATTERSON.—On January 31, at Holy Trinity Church, Hounslow, Gude Wallace Tacon, M.B.C.S. Eng., to Henrictta Caroline, second daughter of the late Capt. F. F. Patterson, of H.M.'s 90th Royal Rifles. was given or see late Laps. r. r. l'atterson, of H.M.'s 60th Royal Riflos. Wary-Broos.—On February 1, at All Souls' Church, Langham-place, George, aon of the late Iter. Cecil D. Wray, Canon of Manchester, to Jane White, widow of the late John Beggs, M.D., of Reedsmouth, Northumberland.

DEATHS

Hanns, Captain Charles, late of the Hon. E.I.C. Bengal Horse Artillery, and eldest son of the late Henry Harris, M.D., at 21, Pembridge-square, on January 30, aged 83.

HATTON, JOHN, M.D., of Belvedere, Kent, formerly of Manchester, on

JOHE, WALTER, Army Staff Assistant-Surgeon, third son of the late George Dennis John, Esq., of Penzance, on board H.M.S. Timar, at ses, after a long illness, on January 23. MACFABLANK, MARGARRY HARMLEYF, the second daughter of the late James Macfarlane, M.D., Perth, N.B., at 24, Green-street, Grosvenor-square, on January 31.

PRITCHARD, ELIZABETH ROSALIA, the beloved wife of Mr. Wm. Pritchard, of the Royal Veterinary College, at 11, Oakley-square, St. Paneras, on January 31, of cancer of the breast. Shaw, Bersard Johr, B.A. and M.R.C.S., late of Caius College, Cambridge, son of the late John Shaw, Esq., of Attercliffe, on January 30, aged 24.

SHITH, JOHN, Surgeon, at Blackheath-road, Greenwich, on January 28 aged 72.

aged 72.
Trian, EDWIN, M.R.C.S., at Old Elvet, Durham, on January 22, aged 62.
Whiour, EDWARO SETMOUR, M.R.C.S.E., at March, ble of Ely, suddenly, on January 35, aged 37.
Youno, Januar, second daughter of the late John Young, Surgeon, of Hull, at Edinburgh, at an advanced age, on January 21.

VACANCIES

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession.

made, and the day of election (as for as nown) are stated in subsession. Demands to R. Freed, and the Heisting.

Demands to R. Freed, and the Heisting of the Post-level day gualified in accordance with the Unsertal Orders of the Post-level that gualified in accordance with the Unsertal Orders of the Post-level the Guardians, on or before February 16. Election on the 16th.

Bergart a row News, Source-square, W.—Physician; manufers to Graduate Royal College of Physicians of Lordon. Applications and testimonials to II. B. lagram, Eds., Sourchard, on to before February 18.

KEST COUNTY OPHTHALMIC HOSPITAL.—Consulting Surgeon; must be duly qualified. Applications and testimonials to R. Fearson, Eaq., Secretary, Maidetone, on or before March 18.

ROYAL SCREET COUNTY HOSPITAL.—Honorary Medical Officer. A tions and testimonials to the Hon. Sec., the Rev. C. R. Dallas, Far Rectory, Godalming, on or before February 23.

T. MAN'S Hospital and Dispusate for Works and Children, Quar-street, Maxcheste, and Dispusate for Works and Children, Medical and Surgical qualifications, and be registered. Applications and testimonials to John Barber, Feq., Scoretary, 41, John Dalton-street, Manchester, on or before February 17.

Sansacacer, on vertor eventry 11.

S. Thoxar's Hospital.—Assistant-Surgeon; must be a Fellow of the Royal College of Surgeons of England. Applications and testimonials to be sent, under cover to the Treasurer, to the Office, 13, St. Thomas's-street, S.E., on or before February 14. Election on March 9.

street, S.E., on or before February 14. Election on March 9.

Thomas's Hospital.—Resident Assistant-Sungeon; must be a Fellow of the Royal College of Sungeons of England. Applications and testimonials to be sent, under cover to the Treasurer, to the Office, 13, 8t. Thomas's-street, S.E., on or before February 14. Election on Feb. 28. UNIVERSITY COLLEGE HOSFITAL.—Assistant Obstetric Physician. Appli-cations and testimonials to John Bobson, B.A., Socretary to the Council, on or before February 22.

WINDSON ROYAL INFIRMARY AND DISPENSARY, -House-Surgeon. Appli-cations and testimonials to the Secretary on or before Pebruary 7.

POOR-LAW MEDICAL SERVICE.

• • The area of each district is stated in acres. The population is computed according to the last census.

RESIGNATION.

Theme Union.—The Great Milton District is wacant; area, 5995; population, 1423; salary, £45 per annum. The Little Milton District is wacant; area, 4780; population, 1000; salary, £98 per annum.

area, 4000; population, 1991; sainty, 1.59 per annual.

Andover Union, Thelwell Pike, M.D. St. And., M.R.C.S. Eng., L.S.A., to the Fourth District. Francis R. Bernard, B.M. and M.C. Univ. Aber., to the Fifth District.

Reputed Union**, John Long, M.R.C.S. Eng., L.S.A., to the Farnley Reputed** Union**, John Long, M.R.C.S. Eng., L.S.A., to the Farnley

District. Holborn Union.-John E. Gowland, L.R.C.P., L.S.A., to the First Dis-

Manufield Union.—James Coutts, M.D., Kings Coll., Aber., M.R.C.S.
West Ward Union.—Thomas J. E. Brown, M.R.C.S. Eng., L.S.A., to the
Willian Eliman.—Jah. 2019.

William Union .- John William Norman, L.R.C.P. Edin., L.R.C.S. Edin., to the Dunster District.

AT the annual meeting of the Torbay Infirmary, held

last week, on the motion of Dr. Black, seconded by Mr. Spragge, a donation of twenty guineas was awarded to Dr. Powell "for the very efficient manner in which he had discharged his in-creased duties during the year."

According to year.

According to year.

According to returns furnished by the Engineer of the Metropolitan Board of Works, the daily average quantity of sowage pumped into the River Thames at Crossness was 339,155 enbic metres, and at Barking 275,019 cubic metres, equivalent to about as many tons by weight.

On Monday, the 30th ult., the Metropolitan District Asylums Board opened the new Small-pox and Fever Hospitals at Stockwell. They are situated about midway between the Brixton and Clapton Stations of the London, Chatham, and Dover Railway.

A PUBLIC MEETING has been held at Swindon, which it was unanimously resolved to establish a Cottage Infirmary for that town and the neighbourhood, and an influential committee was appointed for the purpose of carrying out the resolution.

THE sum of £737 4s, 6d, has been already subscribed towards the intended Infirmary at Devizes; but it is now proposed to erect a bunding which has an isolated ward for in-for the Devizes Dispensary, as well as an isolated ward for in-fections cases, and the estimate, therefore, considerably exceeds the sum which was at first deemed sufficient for a simple

"Cottage" Infirmary.
VACCINATION VISITORS.—A correspondent of the raccination visitors.—A correspondent of the Record complains thus:—"The person going about to issue vaccination notices would do well to be more on his guard respecting his conduct in the houses he has to visit. Whilst the writer was looking for the Registrar's certificate he coolly sat down and ate the soup which had been placed for my dinner. There are other complaints in the neighbourhood."

THE Fourth Annual Report of the Driffield Cottage Hospital states-"The number of patients admitted in 1870 is very much greater than in any previous year, and five out of the six beds have been almost constantly occupied. During the past year 45 in-patients have been admitted, of whom 22 have been discharged cured, 18 relieved, 1 not benefited, 2 have died, and 2 remain in the Hospital. Fifty-nine ont-patients have been on the books, and of these 35 have been cured, 17 have been re-lieved, 4 have not improved, and 3 are still under treatment," The total expenditure of every kind was £135 6s. 3d.

DONATIONS IN KIND .- In the Annual Report of the Rules of the Village Hospital, Hambrook, the following donations in kind are acknowledged:—Cocoa, eggs, jam, milk, vegetables, clothes-posts, old linen, table-bell for board-room, patchwork quilt, knitted quilt.

PRINCELY MUNIFICENCE.-Mr. Humphrey Nicholls, of EBINGELY MUNIFICENCE.—AIT, Humparey Nicholls, of Manchester, presented to Mr. Robert Gladstone, the Treasurer of St. Mary's Hospital, the sum of £9000 to be applied to the funds of that institution, and an additional sum of £9000 for the Barnes's Convalescent Home at Cheadle-Hulme. donations, with others previously given, make a total of £20,000 given by Mr. Humphrey Nicholls.

THE HUNTERIAN SOCIETY.—On Wednesday next will be held the anniversary meeting of one of our oldest Medical societies—the Hunterian. The orator for the year is Mr. T. B. Crosby, and a large attendance is, we believe, expected. The Society meets in the theatre of the London Hospital, and thus possesses excellent accommodation for a large meeting. After the oration, which will commence at 8 o'clock, there will be a conversatione, and an exhibition of instruments, casts, drawings, and other objects of Professional interest. All members of the Profession will be admitted on presentation of card.

SMALL-POX IN ST. PANCRAS.—Yesterday, Dr. Rad-eliffe, one of her Majesty's Inspectors of the Frivy Council, attended a meeting of the St. Pancras vestry. His object was to inform them of the number of cases of small-pox in the parish, amounting in all to about 110, and to suggest some mode of action. He considered that there were upwards of forty-eight centres of infection already in the district, and 2500 instances in which vaccination had not been attended to. Accommodation ought to be prepared for 200 persons, together with a disinfecting chamber, and fifty beds should be provided at once. To this latter suggestion the vestry, after a stormy discussion, agreed.

PUBLIC HEALTH.—The quarterly returns of the Registrar-General, ending the year 1870, have been issued. The mortality of the country was still higher than the average of the ten previous antumn quarters. Scarlet fever and smallpox had carried off their victims, and diphtheria had also been pox and carried on todar vectors, and upinteria and asso very at work. The mortality in the fifty large town districts was at the rate of 23°0 in 1000. Northampton maintains its sad pre-eminence, the rate in that town being 34. Carliels estands lowest of all—namely, only 16. The death-rate of the quarter for the whole kingdom was 22°5 per 1000, the birth-rate 34°1, and the marriage-rate for the previous quarter 14.9.

A FEVER DEN .- An inquest was held yesterday, by Dr. Hardwicke, on the body of a child named John Sper-ganni, about 3 months old. The child was found dead on Friday morning last at a house in Fleet-row, Eyre-street-hill, Holborn, which was stated to be occupied by several families of the poorest class, and to be so overcrowded as to render the air most noxious and dangerous to the unfortunate occupants. The mother of the child, a Neapolitan girl in her 17th year, had been deserted by her husband, and was living at the above house with a man and a woman named Gregarri, who kept her in return for her earnings as a street musician. Dr. Cole said that the body was fairly nourished, and that death had been cansed by suffocation from want of fresh air. Dr. Norton stated that in one house in that locality there were fifty people, and that he had seen sixteen persons huddled together in one room. The jury returned a verdict of "Death by saffocation from want of fresh sir," and drew np a requisition to the parohial authorities, calling attention to the digracedul state of the house in question. The jury further requested the Medical Officer of Health (Dr. Gibbons) and the Inspector of Nuisances to take legal means to abate such overcrowding.

HOOPING-COUGH AND SCARLET FEVER,-Dr. Conway Evans, in his annual report of the sanitary condition of the Strand District, London, says—"During the year, hooping-cough destroyed 44 lives in the district, the annual average of the previous ten years being 41. Of the 44 deaths from this disease, 17 occurred in the sub-district of St. Anno Soho, 19 in that of St. Clement Danes, and 8 in that of St. Mary-le-Strandthat of St. Ciement Danes, and s in that of St. Mirly-re-Strandammbers which are not without relation to the density or population and not unfrequently, indeed, contemplated almost with indifference, of the two diseases, hooping-cough proves in this district decidedly the more destructive to life when regarded over a series of years. Thus, during the last fourtiere years, the mortality from hooping-cough in this district has amounted to 563, that from scarlatina to 509. Mortality of Infants and Young Children .- The deaths of infants and young children constituted, as usual, a large propertion of the entire mortality of the year, those of children of the age of 6 years and under forming no less, indeed, than 43 per cent. This proportion was lowest in the sub-district of \$M. Mary-le-Strand, where it reached 36 per cent. 'I highest in that of \$t. Anne Soho, where it reached 48 per cent.''

CONTICTION UNDER THE CONTAGOUS DISMASSE ACT.—Greenwich: Emma Wright, 25, was charged, on Monday, with neglecting to submit herself to a Medical examination in accordance with the provisions of the Contagious Diseases Act. Mr. Poot, solicitor, who prosecuted on behalf of the Commissioner of Polics, said, that in consequence of the difficulty experienced in getting persons, after signing the necessary papers, to appear before the Medical officer, the police authorities had determined in all cases to put the law in force. Inspector Crounch gave criticone, and stated, as a reason for a warrant having been granted for the prisoner's apprehension, that she had been summoned, and had been allowed to leave the court on promising to comply with the Act, but she had altogether failed to do so. Mr. Maude told the prisoner that while the Act of Parliment was in existence the law would have to be compiled with. Had he kept the promise made on the proper of the proper of the proper of the proper of the property of the pr

COLLEGIATE EXAMINATIONS .- At the last examination COLLEGIATE EXAMINATIONS.—At the last examination for the diploma of Membership of the Royal College of Surgeons, eighty candidates presented themselves, and perhaps the following statistics may be interesting to some of the number there were L.S.A. Lond, 16; L.R.C.P. Edin. and L.S.A. Lond, 2; M.B. Contlab, L.R.C.P. and L.R.C.S. Edin., 1; M.D. queen's University, Ireland, 1; L.R.C.P. Edin., 1; M.D. and M.B. Toronto, 2; and M.D. Paris, 1. There were 42 who passed in Surgery and Modicino, or, having previously obtained a Medical Licence, were admitted Members of the College; 13 passed in Surgery, having to qualify in Medicine before admission as Members; 8 were rejected in Surgery; summson as atemoers; o were rojected in Burgery; S were rejected in Medicine; I was rejected in Surgery, but passed in Medicine; 2 were rejected in Medicine; 2 were rejected in Medicine; 1 was rejected in Surgery, but passed in Medicine; and 6 were rejected in Medicine; but passed in Surgery; and 6 were rejected in Surgery; who had obtained Medical licences. The following which had obtained Medical licences. following were the questious on Surgical Anatomy and the Principles and Practice of Surgery; candidates were required Erineipies and reactive of ourgery; candidates were required to answer four out of the six questions:—I. Describe the common varieties of ulcers (non-specific); state the causes by which they are produced, and their appropriate treatment.

2. State what is meant by "reduction on blow" or "en masse" of a strangulated hernis; describe the position of the sac and its contents where this complication has occurred, the symptoms attending it, and the treatment to be followed. 3. Give the signs of fracture of the ribs, the various complications with which it may be attended, and the proper mode of treatment in each case. A Describe the appearances, progress, and con-sequences (if undecked) of times tarsi, its pathology and treatment. 5. Mention the parts that would be divided in the case of a wound down to the bone extending across the cheek from the lower border of the ala masi to the lobe of the ear. from the lower corner or the ala mass to the love of the ear.

6. Carbunele: it is symptoms, pathology, and treatment. The following were the questions on the Principles and Practice of Medicine:—1. What are the various animal parasites which may infest the human body; state the modes in which they are supposed. to enter the system, and the symptoms which they pro-2. Mention the different remedies, external and internal, which are ordinarily used for the expulsion or destruction of each parasite, and state the doses and modes in which you would employ them. 3. Enumerate the preparations of iron, quinine, and opium contained in the British Pharmacopæis; state the purposes for which you would severally em-pley them, and the doses in which they should be used. The authorities of the College have now adopted the plan pursued authorities or the conege nave now adopted the pain pursual claswhere of lithographing, by a confidential officer of the in-stitution, the questions to be submitted to the candidates—a proceeding which the recent disclosures at Bow-street Police-court respecting another institution appear to have rendered

AT Stourbridge County Court an action was brought by John Green, of Mill-street, to recover 25 for injuries alleged to have been sustained through being knocked down by Mr. E. S. Pears, Surgeon, of Ronad Oak. Mr. Homer appeared for the plaintiff, and Mr. Waldron for the defence. Mr. Homer appearing that the plaintiff, or November 12 in stating the case, said that the plaintiff, or November 12 in Stating the case, said that the plaintiff, or November 12 in Stating the or November 12 in Stating the case, said that the plaintiff, or November 12 in Stating the said of the Stating the Stating

was going down Milk-street, Brierly-hill, and the defendant was passing at the same time in a gig, driving in a very careless and reckless manner, when he knocked down the plaintiff, the plaintiff was 70 years of age, and blind. The singular part of the case transpired in course of the cross-examination of the plaintiff—is easily to receive the case transpired in course of the cross-examination of the plaintiff—is easily the course of the constraints of the plaintiff—is easily the course of the course

NOTES, QUERIES, AND REPLIES.

Se that questioneth much shall learn murb .- Bacon.

Toujours Prit .- The smaller book will be the more useful to you.

A.—The address of the manufacturers of disinfecting ovens is Fraser Bros., 10, Commercial-road East, London, E.

Dr. Campbell, L.R.C.P.E.—He has no right to call himself Surgeon, even although the Act entitles him to practise as such. He may call himself a qualified Medical Practitioner.

C. D.—No receipt is required or expected. It is an honorarium, and as such should be treated.

J. C. (Ormshirt).—The statements made by Mr. Craven, at the Board of Health meeting, are rather too unqualified. Still, they are of value, and should be read with attention.

N., Malvern.—There are many practical suggestions and much common sense in the leading article in the Malvern Ness. It is to be hoped the inhabitants will profit by them.

Alfred Hospital at Molbouries.—The Romorary Medical Officers are—Medical Staff Dr. Bird. Surgical Staff: Mr. M'Millian and Mr. Barrett, Mr. Blair, Mr. Girdlestone, and Mr. Rawkin. For Out-patients (Modical side): Drs. Robertson and Fulton; (Surgical side) Messre. Wigg and Wilkins.

In Granul Practice.—The statement in a letter in the last number of the Narrascratical Journal, that the dispensing arrangements of properly qualified Medical Practitioners are so much less complete and precautionary than those of properly qualified chemists of doubtful authenticity. Whence came the cases of poisoning—by swallowing or by dispensing the worng medicine !

Dispraing dilisaries.—The subject is one surrounded with more difficulty than at first sight presents itself. The Surgeon in general practice has many reasons for wishing the medicines he prescribes to be dispensed under his own superintendence. Leaving the commercial element out of the question, the policy and the convenience are, under the present state of the law, in favour of dispensing at home.

CORRIGENDA.

TO THE EDITOR OF THE MEDICAL TIMES AND GAZETTE,

Sis.—In the list of gentlemen who passed the diploma examination at the College of Surgeons in the week ending Esturday, January 28, my name was entered in your journal as Albert instead of Alban H. G. Doran.

I am, &c.

St. Bartholomew's Howital, January 31.

irtholomew s Hospital, January 51.

No. 70 FM SOUTH OF THE MEDICAL THEM AND GARTYE.

Sin.—You will see from the paper which I seed you that my name was unfortunately substituted for that of Mr. Darby, who died here a few days ince: and I am sourcy to any that the mistake has not been confined to Manchester, but has found its way into many papers, including your own.

Manchester, but has found its way into many papers, including your own. See the second of the second o

A. W. Setchter, Junior House-Surgeon. *
Royal Infirmary, Manchester, Jan. 21.

Males. Females. Total.

COMMUNICATIONS have been received from

M. O. And C. C. C. A. D. And Some one received trom—
M. O. And C. C. A. D. A. M. C. W. Herri, Dr. A. M. A. C. W. T. E. Grass, D. M. C. W. H. H. W. H. H. W. H. W. H. H. H. W. H. H.

Fourteeath Annual Ferror of the Sanitary Coulding (the Strand District,
Fourteeath Annual Report of the Sanitary Coulding (the Strand District,
Skin, Issued by the Sydenham Society, Teub! Fascientus—A, Short Doay
on Practical Experimental Pallosophy, 16 Use and Abuse, by the Wife
of Blobert Willis, M.A., F.R. S., etc.—Teuth Annual Broot of Registrate
of Education of the Strand Coulding Coulding the Strand
Surgical Reports of the Boston City Hospital -Dy. Lee Plater on the
Wonders of the Human Body, translated from the French—The AustraLian Randbook and Aliamaci for 1871.

PERIODICALS AND NEWSPAPERS RECRIVED-

The Ormalité Adreifact. Natural ratte Batteris to:—The Florma-resultai Moral — The Marchest Thaily Examine—The Thorma-resultai Moral — The Male Marchest Thaily Examine—The Thorma-resultai Moral — The Male Physiological Medicine and Medical Juli-Nature—Masterly Journal of Psychological Medicine and Medical Juli-Nature—Masterly Journal of Psychological Medicine and Medical Medical February—The Philadelphia Medical Times—Lizacola Journal—The Melbourne Dally Telegraph—The Essex Independent.

APPOINTMENTS FOR THE WEEK.

February 4. Saturday (this day).

Operations at St. Bartholomet's, 1\(\frac{1}{2}\) p.m.; Sk. Thomas's, \(\frac{9}{2}\) a.m.; King's, \(2\) p.m.; Sk. Thomas's, \(\frac{9}{2}\) p.m.; Charing-eross, \(1\) p.m.; Royal Free, \(2\) p.m.; Hospital for Women, \(\frac{9}{2}\) a.m.; Royal London Ophthalmie, \(1\) a.m.; Royal London Ophthalmie, \(1\) a.m. Rev. W. H. Channing, "Laws of Life Revealed in History,"

6. Monday.

Osernica at the Metrocolium of the Medical part of the Medical for Blosses of the Medical part of the Medical for Blosses of the Medical Bocter of Lorons of Bonney of the Joints; The Conditions Indicate the Medical Bocter of Lorons Bonney of the Joints; The Conditions Results "Illustrated by a series of original positiones, drawings, and apparatus). Lecture III. The Blows, Shoulders, and West-joints. Borat Lecture 10x, 2 p.m. Governal Monthly Medical for the Medical for th

7. Tuesday.

Operations at Guy's, i.j. p.m.; Westminster, 2.p.m.; National Orthopsedie, Operations at Guy's, i.j. p.m.; Revinilander, 2.p.m.; National Orthopsedie, Operation of the Control of the Con

ROYAL INSTITUTION, 3 p.m. Dr. Foster, "Nutrition of Animals."
13. HINDE-START, W., 5 p.m. Lectures on Experimental and Practical
Medicine, by Dr. B. W. Richardson, F.R.S.

8. Wednesday.

Operations at University College Hopstal, 2 p.m.; 8t. Mary's, 14 p.m.; Middlesct, 1 p.m.; 1 p.m.; 19t. Hartholomew's, 14 p.m.; Orest Northern; 2 p.m.; 6t. Ebenar's 1 p.m.; Optimalistic, Southward, 2 p.m.; 1 Sorgal London Ophthalmin; 1 a.m. par Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmin; 11 a.m. par Hospital (by Mr. Wood), 1 p.m.; Royal London Ophthalmin; 11 a.m. par Hospital (by Mr. Wood), 1 p.m.; Royal London Ophthalmin; 11 a.m. par Hospital (by Mr. Wood), 1 p.m.; Royal London Ophthalmin; 1 a.m. par Hospital (by Mr. Wood), 1 p.m.; Royal London Der, Charlest (bottom), 1 p.m.; Royal London Der, Charlest (bottom), 1 p.m.; Royal London, 1 p.m

SOCIOTY OF ARTS, 8 p.m. Meeting.

9. Thursday.

(herrations at St. George's, 1 p.m.; Central London Ophthalmic, 1 p.m.; Royal Orthopsedie, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m. Royal English, 2 p.m.; Boyal London Ophthalmic, 11 a.m. Royal London Ophthalmic, 11 a.m.

10. Friday.

Operations at Westminater Opthalanie, if p.m.; Central London Oph-chalmic, 7 p.m.; Royal London Ophthalanie, 11 a.m. on Development, and the Company of the Company of the Company of the Company of the Soft Palate resembling Diphtheritic Paralysis." Mr. Cant, "On the Process of Occasion in Arteries after Augreement," on Early on the Royal Instructory, p.m. Mr. E. J. Reed, C.B., "On some Fallacies connected with Ships and Guas."

VITAL STATISTICS OF LONDON. Week ending Saturday, January 28, 1870. BIRTHS.

Births of Boys, 1183; Girls, 1185; Total, 2318. Average of 10 corresponding weeks, 1860-69, 2119-4. DEATHS.

Deaths du: Average of Average of Deaths of	the	ten year	. ao	816	3.4	808	16	1632 1636-2 1789			
DEAT	HS	IN St	JB-1	DIS	TRIC	TS	FRO	M I	PIDI	EMIC	8.
		Popula- tion, 1961.	Small-pox.	Measles.	Searlet Fever.	Diphtheria.	Whooping-	Typhus.	Enteric (or Typhoid) Ferer.	Simple continued Ferer.	Diarrhose.
West North Central East South		458125 618210 343321 571158 773175	35 16 49	9 9 9	5 21 9 9	8 1 1 3	7 11 4 15 10	4	4 4	1 1 2 1	1 1 2 2 2
Total		2903989	153	12	65	8	47	10	14	5	10

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. 32-4*
. 46-0*
. 25-0*
. 28-2*
N.E. & N.N.E.
. 0-54 in. Mean beight of barometer ... Mean temperature ... Highest point of thermometer ... Lowest point of thermometer ... Mean dew-point temperature ... General direction of wind ... Whole amount of rain in the week ... BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, January 28, 1870, in the following large Towns:-

a.

Walte . Temp. Date

METEOROLOGY.

From Observations at the Greenwich Observatory.

	ison i	care.	durin	£ 5	of A	ir (F	ture thr.)	of Air (Cent.)	12.	aln all.
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A. (1871.)	Births Registered the week ending J	Deaths Registered the week ending J	Highest during	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3259469	41'8		1632			32.4		0.24	1:37
Portsmouth	125464	13.8	78	51			34.5		0-0H	0.50
Norwich	81787	10.8	51		40%	55.0	33.0		0.43	1.09
Bristol	173364	87.0	117	98			***	4100		***
Wolverhampton	74438	22°0 48°3	48	186	86.3	19-2	29.8	-1'22		0°00
Birmingham	878574 101367	81.7	227				31.5			0.10
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Balford	123651	23.8	121	75	90-9		30.3	-0.72	0.00	0.02
Bradford	148030	22.5	109		39.5					0.12
Leeds	296108	19:8	945			24.0				0:43
Sheffield	255247	11.3	193			24.2				0.25
Hull	135195	88'0	81	52	!			117		
Sunderland	103037	81'2	71	62		200		***	***	
Newcastle-on-Tyne	136293	25'5	62	53	38.0	21.0	31.3			0.00
Edinburgh	179944	40'6	140							0.00
Glasgow	477627	94'8	362	362	36.8	31.8	38.8		0.18	0.33
Dublin (City, etc.+)	322521	83-1	156	206	41.2	25.8	34'3	1'28		***
Total of 20 Towns		-	-	-	-	-				
in United Kingd'm	7336941	34.4	5914	4071	46 0	18-9	31.6:	-0.55	0.13	0.30
Paris-Week ending			1		1					
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Vienna-Week end-										
ing Jan. 14	622087	68		350		***	19"4	7.00	***	***
Berlin-Week end-	#I00000	70					- 1		1	
ing Jan, 28		52	+++	+01	***	***	***	***	***	

At the Royal Observatory, Overwisch, the mean reading of the hazoneter in the week was 200 file. The highest wasorious in. on Prindys, and the lowest was 20 40 in. on Sinday, 22nd ult., R. and N. N. E. West.—The population of Cities and Boroughs in 180 is estimated on the assumption that the increase since 18th has been at the same animal the assumption that the increase since 18th has been at the same animal very since 18th and the contract of the same animal very since 18th and tensure it is probable that the settimate may in some instances be erroneous. The estimates for Leicenter, Notlingham, Lecka, Periddrik, and Hull are based upon a tool enumeration of the inhabited

The actual numbers of the population of these cities and berougha, as enumerated at the Consus in April next, will probably be available before the middle of the year, and will then be substituted for these estimates, t Inclusive of some suburbs.



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advantageous."

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JOHN LANG, Esq., M.D., M.R.C.S.E., L.S.A.,

Physician to the Convalencent Hospital, Southport, formerly Surgeon to the Children's Hospital and Dispensary, Manchester, House-Surgeon to the Manchester Royal Infirmary, and House-Surgeon to the Luversity College Hospital, London, says.—

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ORIGINAL LECTURES.

LECTURES ON

THE CLINICAL OBSERVATION OF DISEASES OF THE BRAIN AND NERVOUS SYSTEM.

By THOMAS LAYCOCK, M.D., etc., Professor of the Practice of Medicine, of Clinical Medicine, and of Medical Psychology and Mental Diseases, in the University of Edinburgh.

(These lectures have been revised, and somewhat extended, by Dr. Lavcock.)

LECTURE II. (Concluded from page 93.)

Or speech-palsy, or so-called aphasia, there are various forms, differing radically from each other. The child learns to speak, and then to write, as laboriously as it learns to walk, the result and then to write, as laboritously as it learns to wais, nor remains being such changes in the hemispheres as correspond in office in speech to the "guiding sensations" of the muscles of the back and limbs in walking. The acts they regulate are at

the back and limes in waixing. The acts they regulate are at last so purely automatic that a person who cannot spell a word orally will write it correctly. Sometimes these verbal acts are so jumbled, in consequence of the disorder of the brain changes on which they depend, that the primary sounds and letters are re-arranged in unintelligible confusion, constituting a kind of re-arranged in unintelligeous contusion, constituting a sind or aphasic chores. I believe no explanation has been attempted of this latter kind, but the pathology can be understood if we remember that the two halves of the brain have each independent action, and require to be co-ordinated in speech as well as

in other acts of unity.

in other acts of unity.

Another kind, which I described long ago (long before the
word aphasia was invented) as speech-palsy, is of the ansethetic kind. I pointed out that often persons deprived, by a fit,
of speech, and of voluntary power over the muscles of expresdate of the face, can utter exclamations and laugh antihly and
also of the face, can utter exclamations and laugh antihly and naturally. I then thought, as others think now, that there naturally. I then thought, as others think now, that there are two lines of ideational activity—one voluntary, the other involuntary; but I now think the difference is not anatomical, but dynamical. In states of feeling and emotion there is greater out dynamical. In states of reeining and emotion there is greater evolution of energy (ris servess), and so greater manifestation than under simple volition. Hence, both kinds of expression of ideas and feelings may be wanting, provided there be com-

plete ansesthesia as to both.

plete annesthesia as to both.

An instructive example of this kind was admitted into Ward 10 of the Infirmary, under years, some years ago. He was a man shout 40 years old, believed to be mentally affected. At first visit he spoke freely enough, but had head-symptoms of an obscure kind pointing to fever. At visit two days after, he would snawer no questions, and looked as if he heard nething. Yet that he did hear was certain, because he put out his tongue, held out his hand, turned himself, and did other things as soon as asked. With all this he neither spoke nor gave any emotional sign of distress that he could not speak, as and motionless. The —his countenance being quite stolid and motionless. The —his countenance being quite stolid and motionless. The —his countenance being quite stolid and motionless. The —his countenance hein quite stolid and motionless. The —his countenance him of the his countenance has a second and motionless. The —his countenance him of the his countenance has a second and motionless. The —his countenance him of the his countenance has a second to the his countenance recognised, nowever, the agus of a serious session in the trained lobes, phrenologically in the organ of language (for such cases have been recorded by phrenologists), and predicted a fatal termination. He never spoke again, and died shortly. Dr. Haldane, then the pathologist to the Infirmary, found on postmortem examination a small tumour, the size of a bean, occu-pying the interior margin of the left corpus strictum, with yellow softening of the contiguous left frontal lobe.

your heatening or the contiguous left frontal lobe.

In the many the second of the sec duplicate in function as the nervous apparatus of the eyes, ears, mostrils, hands; and consequently, for that unity of action of the two which coincides with the unity of consciousness termed the "ego," there must be decussating fibrils and centres which can combine the two hemispheres into one organ, just as the two eyes act together as one in vision. We must conclude, therefore, that the structural disease in this case interfered

Vor. L. 1871. No. 1076.

directly, not with this unity of consciousness (which was not disturbed, and which cannot be restricted to one half), but with the function of the one hemisphere; then, by morbid action along the decussating fibrils or line of physiclogical activity, it also impaired the functions of the other hemisphere. In such a condition a slight additional morbid change would have the state of the constitution of the complete shaded. serve to abolish the latter wholly, and thus a complete aphasic ancesthesia would result. We should have analogous conditions sussessess would result. We amount have analogous conditions if a patient who was amaurotically blind of one eye, without knowing it, became totally blind when disease affected the other eye used in vision. In such a case, did wo not know that vision could be perfect with one eye, and were ignorant that the other eye was diseased, we should attribute vision to

one eye.

The fact that the two hemispheres can and do act as indeno fact that the two stemmspheres can and the accession pendently in thought as the two eyes in vision, without manifestly impairing the unity of consciousness, enables us to explain the phenomens of dreams, somnambulism, hallucination, and all the puzzling phenomena of insanity, including double and triple consciousness, and to reconcile numerous discordant facts. Many cases of injury, and oven destruction of one side of the brain, have been recorded, in which there was no apparent affection of the understanding. I have seen was no apparent affection of the understanding. I have seen such repeatedly; but the proper conclusion from such cases is, not that brains are not necessary to mind, but that one half will suffice provided it be sound. I have said "no apparent affection of the understanding," but I must warn you that this oftend not to a defect in the accuracy of observation. Many persons have vague ideas of mental capacity. These and other important questions in mental pathology are discussed in my nummer course of lectures "On Medical Faychology and Mental own; but I cannot the control of the more fully now; but I cannot the control of the more fully now; but I cannot the control of the more fully control of the cont orders. This anesthetic aphasis, for example, has its simpler form in that loss of memory of names which is experienced as torm in that loss of memory of names which is experienced as ago advances, or in the young as a sign of brain-fatigne. Suddenly, when speaking, the brain-change which corresponds to the name of a thing fails to take place. We then fail to utter the sounds which are its sign, and must describe the thing the thing the same of a guiding change to coalisation only, but it may be defective as a guiding change to coalisation only, but it may be defective as a guiding change to the patients are also not indeed. When this happens in aphasis, the patients are also not indeed to the patients of the patients o tions not know that he uters the wrong ones. Such a state of things is not uncommon in senile dementia. The subject, how-ever, would well occupy a lecture, as it includes the whole physiology and pathology of memory and of association of ideas. You will find it discussed in my psychological textbook.(b)

You will, perhaps, expect me to reconcile these views with the well-established fact that aphasia is so very commonly associated with lesion of the left hemisphere that the organ of language has been placed there. Now, the lesion is not invariably there. Still more cogent is the fact that the functional disorder of the right hemisphere, which follows upon structural disease of the left, cannot, perhaps, be discovered after death, and certainly has not been looked for by pathological anatomists. The explanation rests, in truth, upon an explanation of the general fact that structural disease is explanation of the general fact that structural disease is not only more visible, but is more commonly induced in the left hemisphere than in the right. When we apply the Wallerian law of degeneration to the solution of this problem, we find that we must include the whole cerebrospinal centres in our inquiry. From this point of view, the causes of the frequency of left lesions in aphasia are very various:—1. Greater nse, both motor and sensory, is one very common cause; but motor use alone cannot influence tongue-speech unilaterally in the same way as it influences hand-speech, because the muscles on both sides must be used anal-speech, occasion the miscare on both sides must be used left side is more used mentally, but this is at least not proven. It is different in hand-speech, in which one arm and hand is much more commonly used than the other to express emotion-ally and volitionally all itees and feelings. The greater motor use of the right arm probably predisposes the left half to degeneration as to its motor structures, while the mental—i.e., sensorial—use to this end will also, in like manner, predispose sensorial—use to this end will also, in like manner, preuspose to more ready degeneration of the orbital lobes. Such degenera-tion would involve, also, the sensorial structures (orbital lobes) subservient to tongue-speech; but these two kinds can and do occur separately. 2. The nutrition of the convolutions depend

(b) "Mind and Brain." Second edition, vol. I., p. 396, and vol. ii., p. 455

result upon the supply of blood through the middle centrel actory; and as the left common excited comes directly from the archy of the sorta, it is more directly liable to take in fibrial plugs than the right; and thence embolism of the left middle cerebral artery, with consequent right hemiplogia and aphasis, is more common than of the left. 3. Reflet causes of defective nutrition are also more common on the left than the right half of the axis. Thus, the heart and larger results act more commonly in this way on the left half than the liver on the right, important dissistable influence on the nutrition of the hearin and eard; and, as the left kidney and testicle are more prediscaped to the sustainty of the same of the suffer than the right, This is true, even although their action be decussative as regard the cerebrium; so case of that organ is decussative as regard the cerebrium; so the left testicle would react on the left hemisphere. For other than the results of the left testicle would react on the left hemisphere. For other half of the results after the reacons, deep down in development, it happens that nerre-centres and organs on the left side are more frequently affected from distabilization of these organs than on the right. I pointed out these and other claims of the results after the results are not present that nerre-centres and numerous other claims of the right. I pointed out these and other common the right.

Amongst the symptoms and signs of encephalic and spinal diseases, I shall only notice those shown in the iris and retina, heat and redness of the head and face, headaches, and erupheat and reamses of the nead and most nessurements and exup-tions on the scalp. The ophthalmoscope enables the Physician to detect changes in the retina which, for practical purposes, may be held to represent like changes in the brain-tissue, if used with such regard to fallacies as must always be had. used with such regard to failnesse as must asways to mos-most of the diseases of the membranes of the brain and spinal cord are accompanied by optic neurits, neuro-retinitis, papillary strophy, and infammation of the choroideal map-brane—one or more of these. Papillary and retinal hypersonia to congretions of the brain and spinal cord. If optic accounts he congretions of the brain and spinal cord. If optic neuritis be most marked in one eye, then the corresponding hemisphere is most seriously altered. If the intellect be disordered, or if there be motor or sensory palsy, then the optic neuritis indicates that the cause is structural. Neuro-retinitis and optic neuritis have been observed in acute and chronic myelitis and meningitis, in contusions and compressions of the inycities and meningritis, in continuous and compressions of size brain, in cerebral abscesses, hemorrhages, and tumons, and chronic hydrocephalus, in locomotor ataxy, and in cases of epilopsy, chores, and corrulations associated with structural disease. The early diagnosis of Bright's disease is possible. from ophthalmoscopy of the retina showing how intimately the renal disease is associated with encephalic changes. I must warn you, however, that the ophthalmoscope, like other instru-mental aids, is more adapted to Hospital research than to the exigencies of Professional work generally, and that you should use them all chiefly as means for giving you exact knowuse them an ententy as means for giving you exact anow-ledge of changes not cognisable by the unaided senses. If you enter upon active practice relying upon any of these in-struments for quickness and accuracy of diagnosis, and not upon your trained senses, you will soon discover that even your watch and stethoscope are sometimes unavailable, and that you are thus placed in a difficulty.

Changes in the appearance of the pupil are common signs of cerebral and spinal disease. To understand their practical value you must bear in mind certain sources of fallacy not commonly recognised in books: -1. The iris is a typical example of a quality common to all contractile tissues—such, for example, as the bloodvessels and muscles. It is influenced by the will at one extremity of the chain of causation, and by "physical agents"—i.e., molecular forces—at the other. If the eye be removed from the body, and even if the iris be separated from the eye, light and changes of temperature—as from heat to cold or cold to heat-will cause it to contract, Then there are persons who can contract and dilate the iris at The iris of frogs will remain motionless for several minutes on exposure to vivid light, showing the animal has an inhibiting power. 2. The special function of the nerves of the iris is to regulate the amount of light admitted, but other sensory impressions influence its movements. Claude Bernard found that when any branches of a sensitive nerve, from the sciatic to the fifth, were pinched in an animal, the moment that pain is thus caused the cyclids open and the pupil dilates. 3. The iris has important physiological relations with a certain tract of the spinal cord-hence termed "cilio-spinal" by Budge and

Waller, and "o-culo-spinal" by Claude Bernard. The former found that the filaments of the cervical sympathetic undergo centrifugal (exentric) degeneration, and consequently, according to the Wallerian law, they are thus proved to be motor. By experiments it was found that they come off with the second pair of dorsal nerves, their function being to dilate the iris. Hence contraction of the pupil means palsy. Claude Bernard's oculo-spinal region is more extensive; he ascertained that least extrical and the first and second dorsal nerves direct the last cervical and the first and second dorsal nerves direct the last extrical the second dorsal nerves direct the last extrical many the production of the tissues of the seven which protrusion of a most important region man—dependent of the production of the second pairs of the thorax, next, and structural disease of the heart, such as pervous palpitation and angina pectoris, and as to dropsics of the thorax, next, and arms.

It is from this wider view of facts that we undorstand how there may be paided—i.e., contracted—pupil on one side, just as there may be pain, in cases of aortic and cerebral disease; and how both papils may be palacid—i.e., contracted—incretain palaice in which the spinal, motor, and sensory tracts are involved, as in bosomotor stary and general paresis. Facts in involved, as in bosomotor stary and general paresis. Facts in surface, and in the parameter of the paresis of the parameter of this district of the parameter of the parameter of the parameter is the district of the parameter of the parameter of the vessels are specially involved—analys, deliring tremens and delirium of fever. If we suppose the first to be structurally analogous to a section of an array, we see at once how doubtful is the theory—as can be shown, also, by other considerations consequent vascular congestion, under certain circumstances, are due to vaso-motor paly; we should rather consider contraction of them paralytic.

Redness and congestion of the face, including the conjunctive, have long been associated diagnostically with cerebral disease, but more especially as indicating, with a short neck, the so called apoplectic habit. In these cases the signs are often those of the neuro-vascular diathesis, intensified by existing disease of the heart. A fat face and a florid complexion, with the lobes of the ears soldered to the cheeks, and an arcus senilis, indicate the athermatons diathesis, and a tendency, at least, to a like degeneration of the cerebral vessels. In patients of this kind, with serious disease impending, there is often at the same time morbid heat of the cheeks, and this acts as an excitant of the circulation, so that these persons are often told how well they look, and their complaints believed to be "imaginary," because of their high colour and fat face. The whole head and neck is a vaso-motor area, under the influence of the ceulo-spinal cord, and of the cervical sympathetic ganglia, which have intricate relations with both the cardiac and pneumogastric systems, and the whole circulation of the base of the brain : so that there are numerous causes of redness and apparent congestion of the head and face of no value in cerebral diagnosis. To these reflex heat and vascular fulness. To these I shall revert when discussing

The significance of headaches varies as widely as their causes and as the tissues involved. Some are due to extra-cranial causes, as osteosis of the cranium and dura mater, syphilitic periostitis of the cranium, disease of the internal ear, tumours of the dura mater, neuralgic and rheumatic affections of the scalp. In these cases, the pain, as headache, is usually localised, or at the most is hemi-cranial. On the other hand, cerebral or brain-aches are more general; yet these affect regions. You will find it useful to inquire whether the headache of this kind be frontal, coronal, occipital, or general. Frontal headaches, except when associated with signs of hemiplegia, aphasia, and similar palsies, are for the most part symptomatic. They are very common in gastrie and hepatic disorders, in almost all exanthematic, epidemic, and endemic fevers, and in fever generally. Coronal headaches have their seat in the vertex, are often conjoined with increased heat of the part and a falling of the hair, and commonly indicate a neurosis. experienced in hysteria, nervousness, and low spirits, melancholia, paroxysmal and other kinds of insanity. In one case of paroxysmal mania that came under my notice in consultation, there was found after death an adhesion of the dura mater to the cranium and pia mater at the point of the vertex to which pain was referred. Occipital headache is of two kinds: one kind, associated with pain extending down the nape, and either with a tendency to throw the head back, or with actual spasmodic contraction of the cervical muscles, is one of the most pathognomonic signs of cerebral meningitis of the base, extending down the cord. It is, as such, a common initiatory symptom of that cerebro-spinal meningitis which has been

⁽c) Edinburgh Medical and Surgical Journal, October, 1838, p. 335; and my "Treatise on the Nerrous Diseases of Women," 1840, p. 180—a chapter "On the Relations of Nerrous Diseases to the Lateral Halves of the Nerrous System."

observed of late in Ireland, and in which the occurrence of a neurotic purpura in certain cases, the result of the spinal lesion, has caused it to be named the "black fever" or the "purples." The other kind of occipital headache is wholly different. It is usually a sign of chronic disease of the cerebellum, or of the dura mater over it; but it is also a neurosis, like the coronal headache.

Both general and local headaches may arise from local causes, Diseases of the nostrils, teeth, or jaws, especially if the upper jaw be involved, not only cause general headache, but various have been added to the control of the control of the brain is often associated with a deep-scated local pain and a general headache. Sometimes a local pulsation is felt within the head; in one case, I had reason to conclude, it was due to an aneurism. Small ancurisms, or, at least, aneurismal dilata-

tions are not uncommon, and may be numerous.

The brain itself is devoid of sensibility, so that the question arises—In what tissue has the pain of cerebral headache its origin? I think it must be referred to the vascular system, and chiefly to the pin mater. In the so-called sick-headache, the vessels are the seat of painful throbbings; in various kinds of fever a like sensation is experienced. I have known patients complain of headache, preceded by a feeling as of blood rushing through the head, on awaking in the morning, and, I think, rightly describing the condition; for we know from experiments repeatedly made that the circulation through the brain is slowed during sleep. That the arteries may become most painfully sensitive is certain.

In certain head affections, chiefly neuroses, the patient complains of painful sensations, which are illusive, or, as some would say, imaginary, and of which the sent is in the muscle-sensory tract at the base of the brain. Often with coronal headache there is a feeling of pressure at the vertex; in others, the head feels as if a hoop were fixed round it, resembling a like sensation round the trunk, experienced in certain kinds of paraplegia. These and others, of burning, boring, tearing, etc., belong to a group of corporeal illusive sensations, referred to the bones, limbs, and viscera, which the patient cannot easily describe, but which are very common in sexual hypochon-driasis, delirium tremens, and insanity. The "splitting" headache of fevers belongs to this class.

Eruptions on the scalp have sometimes a practical signifiance; if without pain, they may indicate a trophic nervous debility: such are apt to accompany incontinence of urine, feebleness of intellect, and other results of defective brain nutrition in children, and require for their cure suitable tonics, us the iodides and chlorides of iron. Headaches, with eruptions or inflammations of the scalp, vary in significance with the causes. Rheumatic and ervsipelatous inflammation are apt to be metastatic-that is, to disappear with the development of brain symptoms. The theory of metastasis as commonly current and symptoms. And theory of metastasis as commonly current and applied practically is, as I have already shown to you, both doubtful and falliacious. When we discuss rheumatism and gout, I shall point out how the nervous system influences these so-called metastases of serum, lactic acid, nric acid, and febrile poisons, and the more easily because we are now better prepared to discuss neurotic diseases of tissues.

LECTURES ON ANALYTICAL PATHOLOGY. DELIVERED AT

Ong's Bospital.

By W. MOXON, M.D., F.R.C.P., Assistant-Physician and Pathologist to the Hospital,

LECTURE XIII.

ON OLD AND CURRENT VIEWS REGARDING TUBERCLE, ON FALSE TUBERCLE, AND ON SO-CALLED FIBROID.

Нітикато, in speaking of tubercle, I have assumed that there is such a thing, and that it has a nature defined enough to make it a subject of consideration and discourse. And in doing so I have been determined by this conviction, which I have never seen reason to let go-namely, that the unity which prevails throughout the vast mass of cases that make up what has been, since the time of Laennec, called phthisis, is far greater than the variety among the cases, so that they make a natural group. And, further, that the kind of morbid product which is produced in these cases differs from all that is found under other conditions; while, with due allowance for intensity,

and for the changes that time brings in all long-lasting active

disease, this product is essentially alike in all those cases.

I know this proposition would be in many places received as contrary to modern discovery, and as a retrograde step into a confusion out of which the most esteemed and distinguished labourers in this field of inquiry have striven to raise it. And yet I am so convinced that all phthins is essentially tuberculous, and that the denial of this belief urises out of a useless and indefensible and untrue narrowing of the scope of the nature of tubercle, that I shall discuss the subject with this as the positive view to be kept before you with recommendation.

I have endeavoured to show you that those who make pneu-monia an alternative to tubercle in phthisis, confuse phenomena with material. And in future we shall see that those others who would take a part of the phthisis cases and call them "fibroid," proceed in disregard of the effects of prolonged duration in these cases, and, indeed, are like translators who make no account of the tenses of their verbs, and have no conception beyond the present indicative. If you read or hear cases in which the question whether tuberele is present is discussed, you will, I am sure, be struck with this, that everyone sets himself to show that his particular tubercle is not a true tubercle; and scarcely ever do you find anyone, when on this inquiry, showing a particular knot to be a tubercle. tubercles are allowed to exist, it is generally in cases where the little knot-like bodies are in the lungs of people who had other complaints that directed chief attention elsewhere, so that there is no particular question about the tubercles themselves.

Writers seem to enjoy a sort of republicau satisfaction in taking away the domains of tubercle, whilst they treat it with remote respect, as though it were a real power, and hence we have so many false or reclaimed tubercles that true tubercle is almost becoming an unpractical, if not a doubtful rarity, and it has culminated in this, that Niemeyer, whose excellent work on Medicine is getting very generally used, has declared it to be his opinion "that persons who have phthis are liable to tubercle." I think one cannot hear such a statement as this without feeling a strong suspicion that the import of it is really not more than verbal, and that it is got at by slipping the meaning of the word about on the substance of what older people meant by tubercle, and not by any better knowledge of the substance of tubercle itself.

We will consider, if you please, what are the real grounds of fact on which variations of views of tubercle rest, and will endeavour to distinguish between additions to our knowledge. such as the proof that tubercle is at first an active cellular growth differing from others only in the speedy death which overtakes the cellular growth, and such matter, on the other hand, as that got at by carefully microscoping and renaming by the title "fibroid" the scar-tissne of a chronic phthisis. We are not really advancing our knowledge of it, but at best only making it more elaborate, and as it were facing it with fretwork by this kind of minuteness; and if on account of details of only local value we raise up what we have so overscrutinised into a new sort of thing, we do, on a large scale an injury, and we only do a very minute microscopical and uninteresting service in the way of recompense.

I must ask your forgiveness, because of the tedious and somewhat intricate involvement of the mazes we must traverse in order to know what we should know of the position of these doctrines. I do not mean that you should forgive me, because it is not my fault, but forgive those who, by intensifying partial and limited views, or views of parts only, of the whole inquiry—disregarding the bearing of these parts on other parts equally real and equally forcible, when equally vividly apprehended—have taken away the organisation, unity, and simpli-city which prevail in the facts of tuberculosis, out of its history, and made it, in an amorboid sort of way, shuffle in many directions at once; who settle on the old stream ut some point where they find room for a little clearing, and then rename the stream and claim it, not carrying on their clearings to see that its waters are the same as were known and named

to see that its waters are the same as were known and many by those who had so abused their priority upstream.

I cannot give you a history of all the views that have been held about tubercle, and I only wish to speak of what held about tubercie, and I only wish to speak or what can help us to a clear view of the position of tubercle in the pathology of this our own time. I do not exactly know how the idea of tubercle which those had who used it either for cancer or anything else that had the shape of a little knot speaking of tuberculum scrofulosum, scirrhosum, and so oncame to be refined down, until now you see the most expert pathologist hesitating to use the modern idea of the term over the little clustered knots in the lung that characterise phthisis. and hesitating, indeed, the more in proportion as he is experand learned; and my suspicion is that no one can know exactly how this change has come about, simply because there was no

exactness in the proceeding.

We should first remark that it is not to be expected that, at a time when the knowledge of the animal kingdom was such as prevailed before Cuvier, great strictness of description and thought would prevail on matters so difficult of realisation, and so much necessarily dependent on inference, as the subject of our present consideration. If we want to realise vividly the state which was at that time general in every one, it will suffice that we take as example the state of belief and view which prevails at the present time in nine out of ten. We are able to observe at the present time that what makes the views of people shady on pathological matters is, that they do not think propin somy on paramoterical matters is, that they do not timine apparishology so important a thing as to give it a close suid constant attention, but very practically and sensibly consider the chief use of post-mortem knowledge is to elucidate the individual case and its symptoms—a view which is very good, and whose only fault is that of being partial and insufficient. And whose only table is may or occur partial and insumeers. And no doubt, at the time we are speaking of, this low opinion of general or, as we are calling it, analytical pathology—which low view is even now so prevalent in our essentially clinical Profession—was nearly universal, so that the few who gave their minds in any degree to the subject were prevented, by the width and vagueness of definition which truly characterise it. from arriving at any conclusions that are more than curious to

When the first attempts were made to gain for pathological products a definite recognition, by means of accurate descrip-tions by which they might be compared, and ideas formed of their general nature and relations, then the notion of tubercle began to take shape, and we meet definitions of it. It will be useful in the course of our inquiry that we should note some steps in the history of tubercle, which will serve to set forward and date important opinions. Bayle (about 1809) places tubercle, in regard to phthisis, as determining one of the varieties of phthisis, of which varieties he made six—tuberculous, ulcerous, granulous, calculous, melanose, and cancerous, One finds that he, in his three kinds of ulcerous, tuberculous, and granulous, recognises in his way the three kinds of phtbisis and granulous, recognises in his way the three kinds of phtonas which we now most usually distinguish—namely, the phthiais with excavations or ulcers in old-indurated lungs; phthiais with large or small cascous masses of tubercle; and phthiais with miliary granulations. But he makes these as separate from each other as each is from cancer. Laennee, and Louis after him, putting apart cancer as quite a different kind, and calculous and melanose as rare or special, treat those kinds of ulcerous, tuberculous, and granulous phthisis, which were by Bayle regarded as distinct from each other, as all alike the result of tubercle, which they take as having a variety of modes of appearance from the grey granulation, through the yellow granulation, up to the tubercular infiltration of cheesy matter and consequent excavation.

If we treat the question in temporary disregard of weight of authority, we may state it in this way : that the attention of these early sytematic pathologists was drawn to a kind of morbid product which was of comparatively slow production, and not accompanied by the severe and acute symptoms which fatal inflammatory disease has with it; yet which did not show the presence of bloodyessels in it such as other slowly developed growths contained. This material, having a peculiar potato-like colour and a tendency to soften down and form cavities in the part it affected, made a kind of diseased material, which was at first, and has ever since been, recognised material, which was at arist, and has ever since teen, recognised as showing a primal facic claim to be admitted as having a distinct nature, which was denoted by the term tubercle.

And the describers of the period which preceded the cellular

theory and Mr. Bowman's beautiful discoveries and descriptions -preceded, that is, all accurate knowledge of the constructive nature of the elements of the body, and of the processes of disease—these describers had no very definite or certain reason to doubt that such peculiarities of appearance did signify a proper nature in the substance. And, in fact, the question which arose as between Lacance and Broussais was rather whether these tubercle-masses were or were not the result of inflammatiou? From what we have already seen in former lectures, you now know that this was only a setting of the physiological process inflammation, against the anatomical product tuberele, but it was not seen as being of that nature. Indeed, if you can conceive for a moment your minds divested of that accurate knowledge of all the tissnes which now you possess, and conceive yourselves viewing tissne as flesh containing blood, and flesh as anything not bone nor fat, you will see that your ideas of a patch of yellowish matter in such flesh would not be such attractive ground for argument as other better stores of

knowledge you would doubtless have within your reach.

Now, for so long a time as the smerficially-known yellowish matter of tubercle was a recognised thing, but while as yet the intrinsic nature of tissue-change was undiscovered, for just so long a time must or would the superficially-known matter of tuberele be held as a true and proper kind, and the conviction be becoming fashionable and general in the minds of the Medical Profession that this yellowish matter was the cause or product, or at least the sign, of a definite disease.

But when the microscope came to be employed, and when with the use of the microscope a much more minute and instructed study of the nature of the visible vet small details of tissue was being carried out, then would naturally arise a time of trial for this definite identified disease, such as would probably tend to show that its coarse, naked-eye-seen identity was but the closk over a real variety. Among the things that were called tumours, the microscope did, indeed, discover a great variety of structures, both as to the plan and the elements of the fabries.

Now, did the microscope discover such a variety in tubercle? I think it is cause for surprise, that with all the scrutiny that this matter has been subjected to, there has been so very littlefound in it that can be held to subdivide it into different kinds. Rather is it not true that the microscope has practically shown the same structure in all these things, various as is their size and seat, and enormously frequent as is their occurrence?

Shortly stated, the general result of inquiry into the micro Shortly stated, the general result of inquiry into the macro-scopic structure of the caseous matter which was termed taberele by the older observers is this: that some caseous-patches which occur in the midst of growthe of cancer or tumour are found to be degenerations of the elements of these tumours. This is a very simple and comprehensible fact, and one over which there is no occasion to dwell long. Any of you can see the truth of it, either in these drawings or for yourselves in the case of most of the cancers which are removed in the operating theatre. And secondly, that a certain kind of caseous tissue has, by observations directed to the causation of the disease, been recognised beyond a doubt as produced by syphilitic infection; and hence, although its elements are often not characteristically distinct from the remainder of tubercles. it is etiologically and in every way "practically" separated from other tubercles. Now, I need scarcely say that such a severance on account of mode of origin by no means touches severance on account of mode of origin by no means toucones any anatomical identity that might exist between the structure of syphilitie formation and tuberele. Things are not divided by the ways they are reached, more than the Bank is made many banks by being got at down a multiplicity of streets. Yet for all this, in point of fact, the superficial characters of syphilitic formations are quite distinct enough from common tubercle to enable you to distinguish it as a different sort of

But when these caseous portions of cancers and caseous syphilomata are eliminated, there remain a large number of caseous productions which were of old grouped as tubercle, on account of their general resemblance to each other: these occurring in many parts of the body—nay, nearly in all parts—and, of course, taking certain differences, at least in their new and spreading edges, where as yet the nature of the tissue is not effected, however identical they appear to be in their caseous older central part. Now, in reference to these, a very wide range of literature prevails, although I think it is not difficult to show that the variety of opinion is not capable of being at all proportionally large. There is no room for much variety of opinion.

We cannot, of course, go into the tubercles of all different tissues and regions; and this is less important for our purpose, as the battle-field for the questions of tuberele is limited practically to the lung chiefly, with occasional reference to the serous membranes and the brain. I have already endeavoured to draw your attention to the relation in which the vague notion of scrofula stands to tubercle, and have endeavoured to convince you that it is only by limiting scrofula to its old signification as a disease of the cervical glands, or at most of the lymphatic glands generally, that we can tame the word to any Jymphatic glands generally, that we can tame the word to any orderly use. I do not deny, of course, that the disease of the lymphatic glands is probably secondary to attentions in the field from which the lymph came to the glands, but the reason why the glands show these calargements is probably in the glands themselves, and not in their supply-fields, for those parts are often to all tests healthy when the glands are diseased. Now, before going into the question of the relation of tuberled to phthisis, which I am about to discuss, I would like to point out to you the relation of scrofula to tubercle from the tubercle

point of view, as we have before seen this relation from the point of view scrotula affords. This is it. Scrofula is chronic, inflammatory (this means only active), caseous degeneration of the cervical glands, and tubercle is a chronic, inflammatory, caseous degeneration of whatever it is a tubercle of-caseous degeneration of lung when in lung, of kidney when in kidney, and so on, and, finally, of gland when in gland; so that the chronic caseous degeneration of a gland that is a scrofula is caronic caseous regumeration of a guand tast is a seconia is also tubercle. Ah! but, you say, you just now allowed a dis-tinction between caseous degenerations in cancer and tubercle. All caseous degenerations, then, are not tubercle. Well. I allow your objection for the present, merely remarking that the cancer change is passive, not active; but it happens to give singular strength to my position in this instance. And this is why. In the case of glands, we have to thank Virehow himself, if we accept what he offers, for a quite conclusive criterion by which to show that scrofulous gland is of necessity the type itself of tubercle. For Virchow says this-" But if you compare the cells which are-or, at least, I must assume to bethe cause and real constituents of the granule (tubercle) with normal tissues of the body, you will remark the most complete correspondence between them and the corpuscies of lymphatic glands In short, he says that the tubercle is an origin of lymph-gland tissue degenerating quickly into caseous matter; and so say many distinguished followers of his in this country. But if so, lymph-gland tissue itself degenerating into such caseous matter is symphogunal classes startly appeared my into sook consults matter is the typical dewards type of behavior, it is, the typical dames in the typical dewards the property of the consults of the typical dewards the property of the control and gland (which, I must say, I never can see, except when the likeness is carried to a vanishing-point by the reduction of the characters of both to a simple lymph cell, surrounded by nothing particular), without seeing that this asserts also the identity of gland and tubercle, unless we are going on the principle "Cesar and Pompey bery much 'like, 'specially Pompey."

(To be continued.)

ORIGINAL COMMUNICATIONS.

ON THE MORTALITY FROM SMALL-POX IN THE METROPOLIS.

By C. A. FOX.

THE prevalence of small-pox just now, and the natural alarm which it has created in the public mind, has led me to collect the facts regarding it recorded in the metropolis since the registration of deaths commenced. We have them for each week from the beginning of 1810—a period of thirty-one years—sufficiently long for us to draw safe inferences and somewhat to trace the course of the disease.

I have before me a table containing the mortality from annul-pox in London for each quarter of the last thirty-one years—using "mortality" in its correct meaning of ratio of deaths to population. These acquainted with statistics will understand when I say that the mortalities have been carefully calculated, with the usual corrections for deaths from causes unspecified, for reducing the quarter to a uniform length, and for taking the population at the middle of each quarter. Also, that the population since the census of 1861 has been estimated on the usual supposition of its having increased in the same ratio as in the previous decade. In the annual mortality, attention has been also given to the unequal length of years.

1. On the average of thirty-one years, 333 die per annun out of every million of the population; but this number is not equally distributed throughout the year. In the first quarter the number is 92; in the second, 92; in the third, 73; and in the fourth, 85. We thus see that in the first quarter the mortality is, on the average, greatest, whilst in the third it is least. is least. And directore between these two quarters—the first and third—is 10. The average quarterly mortality, taking one quarter with another, is 84, so that this flactuation is less than a fourth part of it. Hence we may infer that although cold increases to a very perceptible degree the mortality of variob, it has set by any means the same influence upon it as it has upon other diseases -c.g., bronchitis and pneumonia.

If, instead of taking the mortality in quarters, we add

together the deaths registered in the corresponding wrek of all together the deaths registered in the corresponding we's of all the years, we obtain a table showing the prevalence throughout may be taken as a check on the inferences which we have obtained from the quarterly mortalities, and it discloses the interesting fact that while the grounds mortality is at the very beginning of the year, there is a subsequent maximum, to a less degree, occurring in the latter and of May. The minima are about the end of March and close of September. Throughout that time we may also note about fifteen weeks in which no deaths occurred from variola.

In London the mortality was 655 in 1840, and 293 in 1870, to every million of the population. In England and Wales it was, in 1838, at the rate of 917, and, in 1888, at that of 96—these dates being not only the limits of our inquiry, but each nearly contemporary with the reign of an epidemic.

 Although the average mortality of each quarter is, as before stated, 92, 82, 73, and 86 respectively, yet the actual mortality in any year is very different from these numbers. Thus, in the fourth quarter of 1840 and first of 1841 it reached. 373 and 319; while in the second and fourth quarters of 1857 it was as low as 10. These have been the highest and lowest of any quarterly mortality in the thirty-one years.

Between these points there is, of course, almost every degree of variation; but the amount of range or difference between the highest and lowest of any quarter is greatest in the autumn of the year and least in the summer.

Amongst the conclusions that might be drawn on this head are the following :-

Comparing the fluctuation with that seen in the mortality from the same cause in England and Wales, we find that the greater the area of space or time the less is the fluctuation. The fluctuation is consequently much greater in a quarter

than in a year. The maximum mortality is attained in England and Wales

before it is in London.

3. If we divide the thirty-one years into two periods of fifteen 3. If we divide the thirty-one years into two periods of inflees and sixten years respectively, we shall be enabled to compare the more recent half with the earlier. In the earlier period, from 1849 to 1854 inclusive, the mortality was considerably larger than in the encoeding. If was 339 per million in the year, while from 1855-70 it was only 271, showing a saving of 127 lives per million to the population from small-pox alone. It is not too much to claim this striking amelioration as a result of Medical and sanitary science, and, above all, the gradual spread of vaccination.

It is worthy of remark, in comparing the two periods, that, whilst in the earlier the maximum mortality was in the fourth quarter of the year, in the latter it passed to the first.

4. On dividing the thirty years into three decades, it is instructive to compare the three results with those given by Dr. Guy, in his valuable lectures on Public Health, delivered at King's College, for the decades ending 1719, 1749, and 1799; the first of which periods represents small-pox in its natural force, the second under the influence of inoculation, and the third after the introduction of vaccination. The mortality to the standard of the million was 3141 in 1710-19, 2828 in 1740-19, and 2286 in 1790-99 inclusive. In the decade ending 1849, the numbers were 445, and in those ending 1859 and 1869, not more than 271 and 278 respectively, owing to the improvements of modern times in regard to this disease.

5. But if we look through the table of the quarterly mortality for the thirty-one years, to see if there is any order in its increase and docrease, we soon find that it goes through periods with some approach to regularity. When 1840 began, the mortality was rising; it reached its maximum in the autumn quarter of the same year, whence it decreased to the spring of 1842, again increasing to the autumn of 1844, decasing to the autumn of 1846, again increasing to the summer of 1818, decreasing to the winter of 1850, increasing to the spring of 1852, decreasing to the summer of 1853, increasing again to the spring of 1855, and decreasing to the fall of 1857. This was the minimum point in its history; but it soon gradually increased to the winter of 1860, followed by a rapid minimum in the same season of 1862. The next maximum was in the spring of 1863, and its consequent minimum in that quarter of the succeeding year. After this there was a maximum in the winter of 1867, and then a minimum in the spring of 1869, from which point it has steadily increased to its prosent beight.

sent height.

If we now arrange in order the dates at which the deathrate renched a maximum, we shall find that it has done

eight times in the third of a century over which we have 5th. Second quarter of 1855 6th. First , 1860 1st. Fourth quarter of 1840

2nd. 1844 3rd. Third 7th. Second 8th. First 1848 1863 Second 1867 1852

If the reader observe the distances between these exacerbations of the fever, he will see that the following numbers of quarters intervene successively:--16, 15, 16, 12, 19, 13, 15, the average of which numbers is 15; whence it is evident that the law of small-pox is, that it recurs at intervals of fifteen quarters (three and three-quarter years), and that epidemics of the disease may be expected with considerable precision, whatever means be adopted for their prevention or arrest.

Comparing the periods of recurrence in London with those in England and Wales collectively, it is found that they roughly correspond; but it must be remembered that this is a criterion of much less value than that deduced from the mortality of a town or province, inasmuch as in that of a whole country, the town or province, massace as in that or a waste country, the rise of desthis in one part may be balanced by the low rate in another. As before said, the range is less in England and Wales than in the metropolis—i.e., the maximum is not so great, and the minimum is not so small. The striking minimum of 1857 before alluded to, was at the rate of 59 deaths to the million of population in London, while for that year in England and Wales it was 208. In 1856 it had been as low as 121, and thus the year of minimum throughout the country preceded the minimum in the metropolis, which has been the invariable rule of the maxima.

The slight differences witnessed in the length of the cycles or phases of the visitation of variols may be due to the meteoro-logical and other conditions of the time, as may possibly the comparative length and severity of their durations.

6. The conclusions to be drawn from the statistics of smallpox are safer than those regarding many other diseases. Principal amongst the causes of this is the fact that its nature is less prone to be mistaken and its phenomena overlooked; thus removing the frequent fallacies occasioned by the contested

character and similarity of so many other affections.

From analogy, it is highly probable that the present epidemic has not yet attained its climax, and, if so, there is but little likelihood of our curbing its career. At least, it is a satisfaction to observe that a malady, of whose nature we stand in awe with all the refinements of our art, should illustrate the operation of regular and independent laws of progression, whilst it enables us to exonerate from the charge of uselessness vaccination and sanitary reform,

London Hospital.

CLINICAL REMARKS

ON A CASE OF NEGLECTED TRAUMATIC URETHRAL STRICTURE.

IN WHICH REFEATED RETENTION OF URINE, ULTIMATE EXTRA-VASATION AND FISTULE LED TO (1) PUNCTURE OF THE BLADDEB PER RECTUM, (2) PERINEAL SECTION, (3) URETHROPLASTIC AND HOLT'S OPERATIONS.

By JOHN D. HILL, F.R.C.S.,

Surgeon to the Royal Free Hospital; Assistant-Surgeon to the Royal Orthonosic Hospital.

A TRAUMATIC stricture of the urethra is probably the most severe variety of that disease-and when we consider that lesions of the kind generally follow such violence as falling (astride) upon a joist, beam, or pommel of a saddle, it is not surprising that the soft parts from without inwards, as far as the public arch, should be more or less injured; but the severity of these s, according to my experience, chiefly consists in the extent of implication of the urethra, and its relation with the plastic tissue subsequently deposited. Thus, closure of the canal may arise from (1) abundant contractile fibrine, encircling or compressing, without actually being incorporated with, the or compressing, without actually being meorporated with, the unethra—the result of eircumferential injury; (2) dense plastic tissue, surrounding and being incorporated with the urethra, produced by circumferential and urethral injury; and (3) fibrinous deposit, within and around the urethra, the result of circumferential injury and urethral rupture; and in practice we meet with various modifications of these several conditions. It is, therefore, obvious that such cases are more difficult to treat, and more liable to recur rapidly after dilatation, than those which arise from other causes, and in this respect our case is a typical one; we have also here a good example of the complications which result from neglect, and the treatment which such neglect may render necessary in the several stages of traumatic stricture. Let us now examine the record of the case.

Thomas B., aged 35, a man of dull aspect and spare habit of body, married, but without issue, a joiner by trade, and resid-ing at Wood green, was admitted into the Royal Free Hospital (Calthorpe Ward) on July 14, 1869.

(Cathorpe Ward) on July 14, 1869.

About twenty years ago he fell across a joist, and after a long illness and most beful across as joist, and after a long illness and most beful across as gradually-instancing water—but was never trouble with actual retention until October 15, 1862, the date of his actual retention until October 15, 1862, the date of his constance of the understance in the properties of the understance portions of the urethra, quite impervious to catheters. Other means also failing, I panetured his bladder per rectam, and gave cut to three pints of urine; the canula was then retained forty-eight to hours, when a No. 2 silver catheter was passed through the stricture and secured with tapes. Fifty hours subsequently the stricture and secured with tapes. Fifty hours subsequently also was faded during forty-cight hours, and to the process of the latter was removed, and a No. 3 catacter inserted, which also was fixed during forty-eight hours, and so the process of dilatation was carefully pursued until the urethra admitted a No. 12 bougie. This was accomplished after seven weeks residence in the Hospital, and he was then discharged, with instructions to attend as an out-patient. On examining the rectum at that time, the only trace of the puncture was a small depression in the mesian line, just above the prostate (quarter

He now went to reside in the country, and about three months subsequently retention again occurred; extravasation montas subsequenty retention agen occurred; extravasación of utine in the periode and coroun for the periode and coroun for the coroun periode of the coroun for the coroun and drew off nearly three pints of urine. The canula was retained forty-eight hours, when (after some difficulty) a No. 1 silver catheter was introduced. The stricture by this time had so considerably increased in thickness and density, that it could be felt externally to extend from the perineum to the anterior fistula—a distance of one inch and a half—and the scrotum was brawny, tense, and infiltrated.

After three days, the catheter was withdrawn, but I failed to pass a size larger, and the attempt was followed by rigors, and such severe constitutional disturbance, that I gave up ali

hope of further dilatation.
In the course of a week, these symptoms having subsided, I introduced a catheter as far as the strictured part, and, cutting down upon its point, carried my incision through the stric-ture into the urethra behind, and completed the operation by passing the instrument into the bladder, and securing it with

The wound healed in twelve weeks, by which time the perineal and scrotal fistules had also closed; but the anterior one was more troublesome; its acques were pared, and brought together, and a catheter retained during the healing process. After two operations, little more than a pinhole remained. On exploring the rectum, a slight depression immediately above the prostate marked the site of puncture.

He now left the Hospital, promising faithfully to attend (for catheterism) twice a week; but he failed in this, and was not

again seen for six years.

During the ensuing twelve months the stream became smaller, Language casualty tweive months the stream became smaller, the fistalse opened up, and urine flowed through them on micturition, which even then was painfully frequent.

As years passed on, the bladder became contracted, the difficulty in making water increased, and latterly it flowed entirely

through the perineum. In this miserable condition he existed, until finally the last outlet closed twenty-four hours before his last admission, and he was brought to the Hospital with retention. He was then much emaciated, with an anxious countion. He was then much emiscated, with an anxious countrance, an expression of suffering, loss of appetite, and a feeble pulse. In the hypogratric region was a fluctuating and circumscribed tumour, about the size of a pigeon's egg. This could be partially emptied, and conveyed a slightly empty-sematous impression to the touch, an indirect impulse on oughing, and a tympanitic note on percussion. Its centre was extremely thin, and consisted of little more than skin, and the distended bladder behind felt like a cricket-ball. The stricture, now commencing at the anterior, and terminating at the pos-terior fistula, had increased in size and density since the previous examination. This felt about an inch in diameter from

side to side, and was impervious to catheters, which failed

to pass beyond the front (patent) fistula.

I next examined the posterior fistula, which had closed up, but the smallest probe could not be insinuated even within its online. Considering that he had passed no water for twenty-six hours, and was suffering acutely from distension, I imme-diately punctured his bladder per rectum, and removed ten ounces of high-coloured ammoniacal urine, and retained the canula until a communication with the bladder could be established through the perineum. This was accomplished in examinate inrough the perineum. This was accomplished in seventy-four hours [July 17], when the perineal fistula had yielded sufficiently to admit a small probe, which being taken as a guide, I opened the perineum, and passed a No. 12 gum clastic eatheter through the wond into the bladder. The canula was then withdrawn, and the catheter out short and secured with tapes.

The patient was now placed on a good diet, consisting of chops, eggs, slices from joints, and ten ounces of wine daily. The abdominal tumour was poulticed with linseed meal, and

one ounce of the mist, quine co. prescribed thrice a day.

July 19.—Urine flows through perineal catheter. Wound looks healthy; bowels act daily; appetite is improved; pain in hypogastric region is troublesome; swelling less prominent; motions and urine are free from pns; catheter was taken ont,

cleansed, and re-introduced.

22nd.—Complains of pain and throbling in tumeur, and the skin over it is very red, and beginning to vesicate.

Let out by incision a considerable quantity of dirty-brown offensive pus. Ordered linseed meal poultices; catheter cleansed. Six hours afterwards the second poultice was stained with pus and faces,

afterwards the second poultice was stained with pus and iscern and later in the day liquid motion passed through the wound.

2 it.l.—Is free from pain; wound discharges pus and motion.

Ordered charcoal to be freely mixed with the linseed meal.

2 oth.—Diarrhosa is troublesome, and the entire motion dis-

charges through the abdominal walls. Ordered mist. cretie co. Biss, every four hours, and equal parts of powdered starch and charcoal to the wound, which is to be covered up with tow and oiled silk, and the abdomen encircled with a broad roller; catheter cleansed.

28th.-Bowels have acted but once a day since the fourth dose of medicine; abdominal wound is much smaller; perineal wound is healing; catheter removed. Mist, crete co. to be

suspended.

August 4 .- Abdominal wound is still discharging pns and faces, but less in quantity; general health is much improved; bowels act (daily) per rectum; catheter changed twice since last report.

19th .- Abdominal wound is nearly healed; perineal wound is healed around catheter, which, when withdrawn for cleansing,

is neurot around cameer, which, when withdrawn for cleaning, was with difficulty re-introduced.

September 4.—Abdominal wound is cleatrised; not a drop of urine has passed through the recto-vessioal wound since the zemoval of the canula, and the mark of puncture seems to correspond with the situation of the second operation.

11th .- Holt's instrument was now introduced; the stricture split, and a No. 10 catheter passed into the bladder through the meatus. The latter instrument was then drawn out, so the meature. Into latter instrument was then drawn out, so that the point rested just in front of the perincal opening, while the handle was placed flatwise upon the abdominal wall. Being so held by an assistant, with the penis made tense upon it, I dissected flaps of skin from the margins of the anterior fistula (which was about three-quarters of an inch long, and the diameter of the urethra in width), and closed them in with a fold of scrotum; thus, the raw surfaces were brought in contact, retained with a continuous suture, and, lastly, covered with collodion. The silver catheter was then removed, and the perineal catheter introduced.

13th.—The wound is in part healed by first intention. Penis to be well strapped to scrotum, to prevent traction on incised edges; suture removed; eatheter to be cleaned twice a week.

16th.—Wound is suppurating.
20th.—Healthy granulations are now spread over the wound.
25th.—Wound is smaller; granulations between upper and
lower surfaces are uniting; is much improved in health.
30th.—Without difficulty passed a No. 8 catheer through

strictured part.

October 30.—Wound is now cicatrised around the opening. where urethra is absent; this is about one-half its original where ureturn a nosent; that is about one-hall its original size. Now performed a similar operation to the last, but took flaps chiefly from the upper and lower margins of the fistals. November 2.—Wound is suppurating; sutures removed. 5th.—Granulations have formed.

8th.-Wound is healing.

18th .- Wound is less; perincal opening contracted around

eatheter, which, when removed, could not be re-introduced, and was therefore substituted by one of smaller size.

28th.—Wound is ne larger than a good-sized shot.
December 8.—Wound is nearly healed. Owing to domestie tronble, has taken his discharge to-day, regardless of conse-quences. The three portions of the urethra which have been described are in the following condition:—1st. The fistula in the spongy portion is nearly healed. 2nd. The stricture situated in the spongy and membranous portions is thoroughly dilated. 3rd. The perincal opening has a direct tendency to close up.
A Ne. 8 catheter traversed the whole canal without difficulty, and when the perineal catheter was withdrawn for a few minutes some difficulty was found in replacing it. For ohvious reasons it is desirable that this should not close at present. His conduct, however, leads me to believe that he will pursue his former negligent career.

January 3 .- Has not been seen or heard of since his discharge. January 3.— Has not been seen or heard of since his discharge.

Now let me direct your attention to the chief points in this case. When quite a youth, the patient injured his perineum; and, although it is diffient to affirm the precise nature and extent of injury, we may fairly infer that the urethra was seriously damaged by laceration or repture, and that this became incorporated with the abundant fibrinous deposit which by gradual contraction eventually closed the canal.

gradual contraction eventually coosed the canal.

Nearly seven years ago he first came under my observation
with retention of urine; catheterism failing, the bladder was
punctured per rectum. Here we had a twofold benefit—(1)
the discharge of urine; (2) the diversion of that fluid from an irritated and congested stricture. The mechanical and physiological rest thus induced led to yielding of the contracted canal in forty-eight hours, and a catheter was introduced and retained. The canula was then withdrawn, and the satisfactory dilatation of the stricture accomplished in seven weeks; and, hut for absolute neglect on the part of the patient, all further inconvenience might have been averted.

Three months subsequently, retention again occurs, and, being unrelieved, extravasation, abscesses, and fistulæ follow, and the urine ultimately escapes by four outlets-viz., three fistulæ and the meatus urinarius. On his second admission, three months the meatus urinarius. On his second admission, three months later, we find him with a distended bladder. Catheterism again fails; puncture of the bladder is again resorted to, and the canula is retained until a catheter can be inserted, with a view to redilatation and closure of the fistulee. Our second operation, however, has not so satisfactory an issue, probably y reason of changes in the stricture due to recent urinary infiltration and inflammatory action; hence, increased density, greater resistance to gradual dilatation, and dangerous symptoms following such treatment. Perineal section meets the difficulty. A catheter is then passed, and retained until the wound heals over it; and closure of the fistules is almost accomplished by plastic operations, when our patient again leaves the Hos-pital, contrary to advice, and is not heard of fer six years. In the meantime, the stricture contracts worse than ever,

urine infiltrates, the sinuses break open, and all the urine is urne innitrates, the shakes break open, and an time is expelled through them; these, save one, gradually close, the bladder soon becomes irritable and contracted, and incapable of retaining much urine, and, finally, closure of the perineal fistula causes retention, with which he returns to the Hospital.

fistula causes retention, with which for returns to the Hospital. We now find him in a worse plight than ever, and, with the addition of a hypogastrie abscess, no catheter can be passed; therefore, for the third time, the distended bladder is punctured by the rectum. On this occasion, after seventy-four hours, the perincul flatula yields sufficiently to admit a probe, which being taken as a guide, an incision is made into the perincum, and a shert catheter introduced through this into the bladder, when the cannia is removed. Here, then, we have a threefold article (1) Provision for the provision for the control of the fatula by unrethroplasty.

opportunity for the cure of the fistula by urethroplasty.

In the meantime, the hypogastric abeces is opened, and subsequently found to communicate with the intestine (excum f); for a short time the entire motions pass through the wound; these, however, gradually lessen, and the fistula is healed by

the sixth week.

The cause of this complication is obscure. In the absence of pns in the urine or motions, and of any history of hernia or previous mischief, I am inclined to think that the abscess commenced in the abdeminal walls, and implicated the intestine secondarily.

secondarily.

Now, the treatment here is based upon ordinary principles, and may be divided into constitutional and local. to the former, we endeavour to sustain our patient with a generous diet, tonics, and wine, and occasionally administer. satringent medicious to correct disarbosa and intestinal irritation. As to the latter, we first poultice, and then occases the abscess by incision; when inflammatory action subsides, we scal up the wound with starch and charcoal—the one to control intestinal action, the other to obviate the effluvia from the discharges; finally, a broad bandage encircles the ablomes, of the starch of the starch of the starch of the starch of the attention of the starch of the latter is quite so, our patient leaves the Hospital. In conclusion, a word shout the satisfactory healing of the recto-resizal punctures; in every instance, not a drop of urine compet after the withdrawal of the cannie; this, I think, may

In conclusion, a word about the satisfactory healing of the recto-vesical punctures; in every instance, not a drop of urine escaped after the withdrawal of the canula; this, I think, may be due to the following precutions:—That on each occasion previous to puncture the bladder was fully distended, and steadily fixed by an extra-abdominal grasp. The trochar and canula were then inserted at right angles to the vesical walls. Thus the tense and fixed condition of the bladder, and the direction of the punctures, to a great extent, obviated the danger of intenural activassation, and recto-vesical fistula.

17, Guildford-street, Russell-square.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

SMALL-POX IN THE LONDON HOSPITALS.

ST. GEORGE'S HOSPITAL.

The number of patients suffering from small-pox in this Hospital has now been greatly reduced by the dismissal of the major portion of those reported as going on well when we last made note of the condition of the Hospital. One other death occurred, making three in all; but the others did well, and atter a time, getting impatient of their confinement, insisted on dismissal. They themselves were disinfected as far aspossible, and their clothes baked, after which they were allowed to the Hospital with meningeal symptoms, who shortly sterethibited the characteristic eruption of small-pox. The patient was too ill to be sent away, and had therefore to be sent to the small-pox wards. The delirium has continued, and at the date of our information the case augured badly. No new cases have occurred in the wards.

ST. MARY'S.

Two patients were admitted in the pyrexial stage, who afterwards turned out to be suffering from small-pox. They were sent to the Small-pox Hospital, and the disease has not spread.

MIDDLESEX.

No new cases are reported here, but the authorities have prepared wards for the reception of small-pox patients. Many have made their appearance in the out-patient department.

UNIVERSITY COLLEGE.

No cases have occurred among the in-patients of this Hospital. One patient applied for admission some time ago, but was rejected.

KING'S COLLEGE.

One case has occurred in the wards of King's College Hospital. The patient was admitted in the pyrexial stage. Even then, there was some doubt as to the nature of the case, which was subsequently dispelled by the appearance of the craption. The case presented certain interesting features from a diagnostic point of view, and we hope to give fuller details of it subsequently.

There is nothing new from the other Hospitals.

Inere is nothing new from the other Hospitans.
If anything is to be learned from the history of this epidemic of small-pox, especially as it has affected the London Hospitals, the possibility of limiting and promptly suppressing the disease is surely most virilly brought out. A few weeks ago St. of infection for the locality; yet, by promptly stopping all visitors, by isolation of the sick, and by revaccinating all belonging to the Hospital, the spread of the malady was speedily and completely arrested. This fact is well worthy of general attention.

HOSPITAL FOR DISEASES OF THE THROAT.

HYGROMA OF THE HYOID BURSA.

(Under the care of Dr. MORELL-MACKENZIE.)

W. L., AODB 30, a carman, applied at the Hospital, on Normber 25, 1870, on account of difficulty of breathing and swallowing, which he attributed to a swelling just below the chin. He stated that he had first noticed the swelling about seven or sight years ago, but that it had never caused him any trouble till 1867, when he took cold, and the swelling greatly increased in size. He then consulted an emisent Surgeon, caused him a great deal of inconvenience, and ocrasionally prevented him doing his work. The swelling had become much larger during the last year.

On examination, an ovoid tumour, about the size of a hear's year found extending horizontally across the neck, and slightly attached to the hyoid membrane. The tumour was mobile, firm, and elastic. There was fluctuation on palpation. The skin over it was healthy and non-adherent.

The case was diagnosed to be one of hygroma of the hydd bursa, and Dr. Mackenrie directed that the cyst should be punctured, and a small seton afterwards be put through. This was done. About three ounces of a transparent, but viscid yellowish-white fluid were drawn off. A few threads were afterwards carried through the cyst. The same evening the patient had a shivering fit, and could not sleep.

On the following morning, he experienced much difficulty in awallowing, and some shortness of breath. The aurface of the swelling was inflamed, and, ou making a laryngoscopic examination, the epiglottis and mucous membrane of the larynx were seen to be in a state of general hypersemia. An inbalation of the compound tincture of benzoin, and poultics over the neck were ordered.

over the nesk were ordered.

On the 27th the bursal cyst was found to be tense, and this!

On the 27th the bursal cyst seem openings. Dr. Mackenzis collected one of the orifices to be slightly enlarged, and the seton removed, when a quantity of pus was poured out. This purulent discharge continued for a few days, and at the end of four weeks (December 26, 1870) the wound had healed, and the

man was made an out-patient.

January 14, 1871.—Finally discharged cured, there being no

remains of the cyst.

Remarks.-Dr. Morell-Mackenzie observed that these cases are interesting, both on account of their rarity and of the close connexion which the bursa has with the laryux. A valuable communication on this subject was read before the New York Medical Association, by Dr. P. H. Hamilton, in 1880, and reported in the Medical Record of February, 1870. Several cases were reported by him under the name of "superfront of the laryux." On that occasion, Dr. Elaberg gave an interesting historical resum of the subject. On account of their close connexion with the laryux, any curative treatment of these tumours is likely to give rise to laryngitis. The plan commonly adopted consists in puncturing and injecting iodine; but this treatment is not so certain as that by seton, for the cyst not unfrequently fills again. All observers who have met would be met with considerable danger. In addition to the hyoid burse, subcataneous bursal cysts are sometimes found over the thyroid, and even a low as the cricial cartilage.

ROYAL INFIRMARY, EDINBURGH.

TWO CASES OF UTERINE TUMOURS GIVING RISE TO HÆMORRHAGE—TREATMENT BY PERCHLO-RIDE OF IRON INJECTIONS INTO THE UTERUS.

(Under the care of Dr. MATTHEWS DUNCAN.)
[Reported by Dr. J. R. HARDIE.]

M. S. aged 38, Reported by Br. J. R. Hanner.

No. 75, 1870, was admitted to Ward 16, Royal Infirmary, Nov. 75, 1870, was defined to Ward 16, Royal Infirmary, Nov. 75, 1870, was the proceeding the strong, healthy woman. About that time, after a hard day's work, she had a copious discharge of bloody fluid from the vagins, probably about three quarts in amount. This discharge continued in small quantities for a week, at the end of a violent as the first. Three days after this, a third time, bleeding from the genital passages set in, the blood lost being in greater quantity than on either of the former occasions. This

last blood-loss left her in a state of extreme prostration. Since then, she has had a slight daily discharge of blood. admitted into the Hospital, she appeared extremely pale and ansemic. On physical examination, the belly is found to be natural, soft, and resonant down to the publis. Per Vaginess. The finger introduced discovers nothing abnormal at first, but, on careful examination, the body of the uterus can be felt between the external and internal fingers, and feels enlarged, rounded, and not tender, about the size of a small egg. swelling feels as if it affected the left side of the fundus chiefly. A probe passes into the uterus the natural length, and finds it to be movable. Speculum discovers in the vagina, trickling from the cervix, a small quantity of blood.

Treatment.—B. Ext. ergot. liquid, 3j., twice daily; et syrupi ferri phosph., thirty drops thrice daily. December 22.—To-day, for the first time since admission,

patient complains of a great blood-loss. On examination, the umonr described in the original examination feels larger. Uterus measures three inches and a half. One drachm of the liq. ferri perchloridi was injected into the uterus. Patient felt nothing.

23rd . -After the injection yesterday, the discharge almost

26th.-Since the 23rd, there has been a slight flow daily. To-day it is almost absent.

January 3, 1871 .- No bleeding since last report

J. C. was admitted to Dr. Matthews Duncan's Ward, Royal Infirmary, Edinburgh, on December 19, 1870. She is 41 year of age, unmarried, and has had no children. She complains of a swelling in the left groin, increased flow at the monthly period, and of great pain during the first twenty-four hours of the discharge. She has suffered from this pain for about a year; it has been increasing gradually in intensity, and for the last two months has been very severe. The tumour first attracted her attention in the beginning of last October, when, stooping to pick up semething, she felt the pressure of it. It has not, she thinks, increased in size since then. Up to the time that these symptoms set in, patient had enjoyed moderately good health, and had regularly followed her occupation as a domestic servant. She has had a copious menstrual discharge, however, for many years; for the last three years it has been very abundant.

Physical Examination.—In the hypogestric region is observed a prominent, hard tumour, approaching in size a five months' pregnancy, reaching to within an inch of the umbilicus, and pregnancy, reasons to within an inch of the unimities, and presenting a surface nearly uniform, but not quite so. The timour is quite morable, but not to a great extent. The unterine souffle, or something closely reaembling it, can be heard, but not very distinctly. Per Vaginam.—The cervix uter lies near the middle of the pelvis, and all around it is felt a dense hard-ness, somewhat lobulated. The cervix moves with every movement of the turnour. A probe passed into the cervix advances first backwards and then upwards. It enters about three and

a half inches; cervix is small, and not softened. Treatment.-December 30.-Hemorrhage began to-day

January 1.—The bleeding is now severe. A drachm of the squor ferri perchloridi was injected into the uterus this morning. No bleeding during the day, but to-night a little discharge has commenced to flow.

ith .- Since last report there has been a little blood lost every day, but not approaching in quantity to what came away before the injection.

17th .- Has had no bleeding since the 4th; lips do not appear so white; patient feels strong and well.

Remarks.-These two cases illustrate well that most dangerous symptom of fibrous tumour of the uterus - namely, hæmorrhage. It might with propriety be called a bleeding disease, because, barring the obvious inconvenience of a tumour of large size, the subject of it generally suffers little from its presence when this is absent. In the instance of M. S., had not bleeding set in she would have been nuaware that any un-natural condition whatever existed. Here so much blood had been lost that the woman was brought almost to death's-door and another equally severe flooding would probably have killed her. This her Physician in the country attested. The treat-ment by means of which this condition can be most successfully combatted, is that which consists in the injection of perchloride of iron into the uterus when symptoms of the approach of a severe blood-flow set in-that is, when there exists profuse hæmorrhage about the time the monthly period is expected.

Dr. Duncan's method of procedure is as follows:—After the length and direction of the uterus have been ascertained by means of the ordinary sound, a hollow one is passed into the organ. A syringe, composed of valcanite, containing about a drachm of the liquor ferri perchloridi, is fitted closely into the orifice at the proximal end of the probe, and its contents are gently thrown into the womb. No pain is generally felt as a result of this injection, but a feeling of burning is sometimes Dr. Duncan is inclined to attribute this to the complained of. complianed of. Dr. Dancan is menued to attribute this war regurgitation of some of the iron into the vagina. Dr. Duncan has found this mode of treatment highly successful in many cases, and most so in those where the symptoms calling for it were most urgent.

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Medical Times and Gazette.

SATURDAY, FEBRUARY 11, 1871.

THE SMALL-POX EPIDEMIC.

THE deceptive character of the apparent reduction in the mortality from small-pox in the week ending January 28 is shown by the fact that it last week rose to 196. It is to be kept in mind that the numbers published by the Registrar-General relate to the deaths as registered, not as occurring, and hence, from accidental irregularities in registration, the result may at times appear more favourable than it actually is. The disease is still extending.

The report of the Small-pox Hospital at Highgate for 1870, which we publish at length in another column, confirms a good deal of what we said last week about the progress of the epidemic at its origin. We are able now to complete the account of the admissions in the last quarter. They were-in October 144, in November 159, and in December 178; making a total of 481; and the whole admissions for the year 1316. Of these, thirty-one were not cases of small pox at all, so that the cases of small-pox admitted were 1285. The mistakes in diagnosis which led to the sending of these thirty-one cases of nonvariolous disease to a Hospital devoted to the reception of patients suffering from so highly contagious a malady as smallpox, are much to be deplored. Medical mon cannot be too cautious in such a matter; but when it is considered that the diagnosis has often to be made under most unfavourable circumstances, in dark corners of ill-lighted rooms, amidst the discomforts of squalid surroundings, chattering women, and squalling children, often by caudle-light, and upon individuals where the dirt upon the skin is apt to obscure otherwise distinct signs, while the patients are too stupid to reply clearly to questions, the drift of which they are at a loss to comprehend, one cannot altogether wonder at occasional occurrence of error. It has been the same every year since the institution has been opened, the mistakes happening in a pretty constant proportion, and being of a pretty constant character. The diagnosis of incipient small-pox is not always a very easy matter under favourable circumstances, and the unxiety of masters to free themselves

of a dangerous inmate in the case of a servant apparently attacked with this disease, and of Poor-law Medical men to save other inmates of a poverty-stricken house from contamination, may account sometimes for the error of judgment which consigns a case of measles or lichen to a small-pox Hospital. The report also confirms our view of the severity of the present outbreak, in the statement that "a much larger proportion of the population has been attacked in the course of the existing epidemic than has ever occurred in the memory of the present generation." Again we are tempted to ask-How and why is this? The reply that some would give is, that the great extension of the epidemic is the result of a culpable neglect of vaccination, and of the opposition to it as a measure of protection, which has been fostered of late years very manifestly in the minds of ignorant people by the wicked agitation of persons calling themselves anti-vaccinationists. Certainly, there seems at first sight to be some basis for this belief, inasmuch as the worst vaccinated districts of the metropolis have been those earliest and most fatally attacked; while Mr. Marson tells us that the proportion of children (mostly unvaccinated) received into the Hospital during this epidemic has been more than twice as large as it was ten years ago. He informs us, too, that the admissions of vaccinated persons formed only 74.9 per cent. of all the admissions. This is a falling off in a proportion which, for eighteen years past, has been gradnally increasing, and one which, at the first blush, tells a tale not creditable to the progress of vaccination among our London masses

			Per cen
During the epi-	(s proportion of vacci-	66.7
**	1854-5-6		71-2
**	1859-60		78.0
**	1863-4-5-6	11	81-0

But then, on the other hand, it must be borne in mind that, prior to the period in which vaccination has been popular in this country, epidemics of small-pox exhibited a similar variety in severity and extent, grand epidemics occurring at comparatively long intervals, while lesser epidemics intervened. Whatever impression may have been made by the rabid apostles of the League upon the mind of the population of London, one thing is certain-namely, that it has neither been deep nor permanent, as is shown by the rush for protection now taking place to public stations and to private Practitioners alike. Again, it is a character of small-pox noticed by Dr. George Buchanan and other observers, that at the commencement of an epidemic the disease first seizes upon the unvaccinated portion of the population, and that, as it progresses, the contagion becomes more intense and concentrated, and, by the establishment of new foci, a larger and larger proportion of the vaccinated portion becomes attacked; so that it is quite possible that, by the time the epidemic has come to an end, the propertion of vaccinated persons attacked may come up to the ratio of late years. According to the statements in the Report, the existent epidemic is one of unusual malignity, as well as of unusual extent. This is especially shown in the fatality of the disease among the unvaccinated children, which was as high as 42 per cent., while in 1860 it only reached 33.8 per cent. The percentage of fatality on this occasion, as stated in the Report, may be better estimated if we append it to the table given in the report of the Hospital for the year 1868.

Mortality:—

1803. 1864. 1805. 1806. 1807. 1888. 1870. General.

1 71.0 12.9 13.0 13.0 13.0 12.6 11.0 15.4 Univaccinated. 48.0 36.0 38.0 36.7 36.8 33.0 38.5 Yaccinated. 18.0 18.0 18.0 36.7 36.8 38.0 36.7 7.8 So far as a comparison based upon this table goes, it would appear that, although the fatality hitherto has exceeded that of any year since 1863, it has not been so great as it was in that epidernic year, either among the unvaccinated or the vaccinated class. The chances of recovery possessed by the

vaccinated who happen to be attacked are shown by the above figures to be vastly larger than those of the unvaccinated, and the inference drawn from them is fully confirmed by observery of small-pox everywhere, and during the present epidemic by the published oppreience of the Hampstead Hospital. Of 250 patients received there up to January 6, 196 had been vaccinated, or 70 per cent. (a smaller proportion, even, than was found in the Highgate Hospital), and of these only 4 per cent. died, with a small control of the control of the control of the occurred, representing a fatality of 32 per cent. Probably in neither class was the number of deaths fully completed, but the difference is, nevertheless, instructive.

Next to the provision of ample means of isolating the sufferers, and of Hospital accommodation with this enda subject upon which we made some remarks last weekcomes, in order of importance among preventive measures, the vaccination of the people. And as to this, we may say that, as a rule which is almost universal, vaccination is habitually obtained by the educated classes of the community for their children within the first few months after birth. The few perverse individuals in this section of the people who assert their freedom as Englishmen by defying law and logic, make little difference in the general result. It is among the uneducated and half-educated, among those who are careless of themselves as well as of their offspring, and among those whose untrained minds are open to the specious reasoning of pestilent agitators, who flatter them with the assumption that they are competent judges in matters of dry fact, and dose them ad libitum with half-truths, seasoned with a fair amount of falsehoods, that the neglect of infant vaccination is almost solely observed. It is these who rise in rebellion against the compulsory clauses of the Vaccination Act, and it is the childrenof such as these that furnish the earliest victims to an epidemic of small-pox.

A good deal of discussion has taken place as to the wisdom of some of the regulations issued by the Medical Department of the Privy Council in connexion with the last Vaccination Act imposed upon us by Parliament. Into this question we shall not enter now. They arose out of the conviction. that much of the public vaccination performed was of a highly unsatisfactory character, and their aim has been to improvethe quality of the protection imparted, by requiring publicvaccinations to be performed from arm to arm at the publicstations, while means were adopted to ferret out recalcitrant parents, and to bring them to submit, as good citizens, to the requirements of a wholesome law. The plan adopted may be good or it may be vicious; but we conceive Dr. Seaton is not very far wrong when he protests against a hasty indgment being formed, before time has been afforded for the new system. to get into perfect and harmonious working order. We think it unfortunate, however, that, regarding vaccination as a measure of preventive sanitary practice, it has been divorced from its legitimate connexion by being consigned to a department of administration other than that which has charge of sanitary proceedings of every other nature. We regard this as a mistake, and one which, on the outbreak of an epidemic such as the present, drags after it confusion and inconvenience. When it is most important, as it is now, that small-pox should be met by the energetic use of all the precantions against its spread that Medical art or the law provide, it is most provoking to meet with division of sanitary administration—the guardians of the poor dealing with the epidemic in one way, and the nuisance authority in another way, jealous, as public bodies acting in the same area, the one of the other, and unwilling to unite in a combined raid against the common enemy. We do not know that this sort of jealousy has been generally manifested on the part of the guardian and vestry boards in London; but we do know that it has cropped up here and there. Under all circumstances, it would have been better and more conducive to the public advantage, now that small-pox is so prevalent, if the whole control of the preventive measures for its arrest were placed in the hands of one executive body in each district, and that body guided and directed by the experience and skill of the Medical Officer of Health. one compensation, however, for the radical fault, as we conceive it to be, in the vaccination arrangements in London, we have observed with satisfaction that the Medical Department of the Privy Council has approached the several boards of guardians with advice as to what it is essential that they should do in the present emergency. It would be a most unfortunate climax to the efforts of that Department in improving the vaccination of the people, if the Vaccination Act, over which no pains were spared to adapt it to the needs of the country, were to break down, and if it were to appear that it was not adapted to any period but one of epidemic quiescence. No donbt it was with the view to show that the Act was not of this restricted application that the memorandum of the 6th ult. was issued to the boards of guardians. It was evidently the intention of those who drew the Act of 1867 to render it as elastic as possible; and when read in connexion with the regulations issued under its sanction, and with the memorandum alluded to, it can scarcely be denied that there are few things, which guardians may consider it desirable to do for the arrest of the epidemie under this Act, that they cannot do. doubt very much whether, under any circumstances, the Privy Council would throw the most trifling obstacle in the way of any board, in any effort that they desired to make, in any direction, to promote the rapid and universal vaccination of all persons at present unprotected in the several districts of the metropolis. Let us point out, then, what in our opinion ought to be done everywhere.

Confining ourselves to the functions of guardians entrusted with the working of the Vaccination Acts, it is tolerably clear that they have a triple duty just now to perform. The first is, to bestir themselves to recover with the utmost speed the arrears of primary vaccination of infants in their respective districts. The second is, to encourage and give unusual facilities for the revaccination of all persons who have attained the age of puberty; and the third, to make special investigation into the condition quond vaccination and revaccination of people living in infected courts and streets, and most especially in infected houses, taking such immediate measures to facilitate the adoption of this great protective by the poor thus placed in urgent danger. In some parishes the arrears of primary vaccination are very large, and this must be believed to be especially the case in such parishes as Islington and St. Saviour's, in the former of which a Vaccination Inspector was not appointed at all until last Midsummer, and in the latter of which this officer was not appointed before last Christmas. To gather these arrears up without delay, an extensive staff of Assistant-Inspectors should be temporarily appointed; and we are glad to learn that in some districts this has been done, with the result of flooding the vaccination stations with applicants. In many instances the delay has only arisen from the inertia of parents, who cannot always find the convenient day for bringing their infants to the station.

With respect to revascination, we do not think sufficient public prominence has been hitherto given to this most important measure. The poor require enlightenment upon the subject, and this should be afforded in part by the Impactors and in part by public printed notices and handbills. It is in this respect that we may be permitted to say we think that the memorandum of the Privy Council of January 24 was not sufficiently explicit. The facts which demand the repetition of vaccination are patent, and are proclaimed by the statistics of small-pox anywhere, as it affects vaccinated persons. We copy, for instance, the following from Dr. Ballard's work, placing them side by side to show how uniform are the results of observations in different quarters, and how the tendency to take small-pox grows with the sag of vaccinated people, until it

arrives at its maximum between puberty and 25 or 30 years of age :-

0		Number	of Cases.		
Ages.	Small-pox Hospital, 1838, (Gregory.)	Small-pox Hospital, 1636-51. (Marson.)	Edinburgh Infirmary, 1833. (Crossby.)	berg, 1831-36. (Heine.)	General Hospital, Vienna. (Constructed from Simon's Report.)
Under 5	yrs	7	6	40 }	234
5 to 10	m 5	56	14	68 1	234
10 15	m 25	206	18	1H6 }	2228
15 20	m 90	866	42	278 5 ***	*** ****
20 25		1058	68	239	2920
25 90		606	37	172 1	
30 to 35	yrs. 13 (30 to	(0 yrs.)312	5	75 (30 to	40 yrs.] 354

On the 6th inst., a supplementary memorandum on the subject of revaccination was issued by the Medical Department of the Privy Council, which we cannot fail to regard with satisfaction as furnishing a very necessary complement to that first put forth. Boards of guardians, we have reason to believe, were not thoroughly alive to their daties in this respect, nor were public vaccinators at all certain how far their charges for revaccination would be allowed by the boards under whom they act. The public are now told officially and by the highest authority-first, that " all persons should undergo revaccination as they approach adult life;" secondly, that " in circumstances of special danger, everyone past childhood on whom revaccination has not before been successfully performed, ought, without delay, to be revaccinated;" thirdly, that "revaccination is now performed by all public vaccinators at their respective stations;" and fourthly, that " any person who ought to be revaccinated may, on applying to the public station of the district in which he resides, obtain revaccination at the public expense." The proof given that revaccination once properly and successfully performed is a life-long protection, is the very best that we know of-namely. that "the nurses and servants at the Small-pox Hospital, when they enter the service, are invariably submitted to vaccination which in their case generally is revaccination, and is never afterwards repeated; and so perfect is the protection, that though nurses live in the closest and most constant attendance on small-pox patients, and though, also, the other servants are in various ways exposed to special chances of infection, the Resident-Surgeon of the Hospital, during his thirty-four years of office there, has never known small-pox affect any one of their nurses or servants."

For the attainment of the third object-namely, the immediate protection of individuals pre-eminently exposed by the occurrence of small-pox in the houses they occupy, or in adjoining houses, or in the close courts and alleys of the metropolis, we are convinced that nothing will meet the emergency but the visit of the public vaccinator to the spot, lymph and lancet in hand. This proceeding does not necessarily involve the use of dry or preserved lymph, although even this is quite warrantable on the outbreak of small-pox in a house on a day when no vaccinifer might be obtainable. It would be quite practicable for the public vaccinator to take a child to any infected place, and to vaccinate or revaccinate from arm to arm. Such house-to-house vaccination, or offer of vaccination, will, we are satisfied, alone succeed in bringing the endangered population under the influence of the protection. It is astonishing how reckless poor people are as regards contagious diseases, and how small an amount of tropble or inconvenience will suffice to deter them from taking the simplest precautions. If it should appear that they are indisposed to go to the station-and many cannot go without loss of work and their daily bread-we hold that it is imperative, not only for their own advantage, but for the protection of the public, that facilities should be afforded by carrying the vaccine to them. Probably, no public vaccinator, operating over a large district, could compass all the work which would thus fall upon him; but where this is so, there is a provision for his doing it through qualified deputies-and such deputies, as assistant vaccinators, should be appointed at once. In some parishes this, we believe, has been done.

THE PROGRESS OF THERAPEUTICAL SCIENCE. No. X.

THERE are yet two more of the recent additions to our therapentical weapons that seem worthy of special notice, and that for two reasons -- viz., because their employment has been based on defined physiological grounds, and intended to meet defined pathological conditions; and because their value may be considered as being still a questio resuta, and as demanding still further investigation and experiment. These medicines are the alkaline hypophosphites and the peroxide of hydrogen.

The "alkaline hypophosphites," and especially the hypophosphites of lime and of soda, have been brought prominently into notice by Dr. Francis Churchill, of Paris, who believes that they are of pre-eminent value in the treatment of phthisis. He presented a memoir on the subject to the Académie de Médécine, in July, 1857, in which he maintains that the proximate cause, or, at all events, an essential condition of the tubercular disthesis, is the decrease in the system of the phosphorus, which it contains in an oxygenisable state. This deficiency can be best remedied by the administration of phosphorus in its lowest degree of oxidation, and in a state making it capable of being directly assimilated. He had, therefore, administered the hypophosphites of sods, lime, rotash, and ammonia. Their physiological effects, he says, are twofold: they increase nervous force, and they are the most powerful hæmatogens; possessing all the therapeutic properties of phosphorus, without the danger formerly attending its use. But he specially recommends the soda and lime hypophosphites. These he declares are prophylactic, and are curative in every stage of phthisis. "I know," he says, "that they will prove not only as sure a remedy in consumption as quinine is in intermittent fever, but also as effectual a prea rvative as vaccination in small-pox." Their effects upon the tubercular diethesis ls, he affirms, "immediate-all the general symptoms of the disease disappearing with a rapidity which is really marvellous." And he predicts that "the different proparations of hypophosphorous acid will undoubtedly occupy one of the most important places in the Materia Medica."(a) The employment of dilute phosphoric acid and phosphate of iron in the treatment of phthisis was by no means new at the time Dr. Churchill wrote, but they were given as tonies, and were not credited with any specific action. The publication, therefore, of Dr. Churchill's statements excited great attention and interest; but, unfortunately, general experience has by no means supported his estimate of the remedial value of the hypophosphites. Mr. John Taylor(b) has, perhaps, reported on them more favourably than any other English observer, and he says, "Experience has not confirmed Dr. Churchill's extravagant encomium as respects the 'curative in every stage'; the word palliative would be more in accordance with the fact, when the remedy had been pure, and with auxiliary combinations." He believes that in the earlier and middle stages " the gnarded introduction of an alkaline hypophosphite into the blood produces a glowing influence; as a respiratory excitant, expanding the chest; as a pyrogenic, increasing animal heat and nervous force, and removing erratic pains; and, as a hæmatogen, forming a nucleus for the rallying of red globules; it increases appetite and cheerfulness, and controls expectoration, night sweat, and diarrhosa;" and that, used in these stages, "they enable the best known means to have increased remedial energy, and thus to effect many more cures than formerly." He also found the hypophosphites

(a) Dublin Hampiel Garette, vol. ir. p. 252, 1857, and "De la Cause Immédiate et du Traitement Spécifique de la Phthisie Pulmonaire." Par J. F. Churchill, D.M.P. Paris: Masson. 1858. Deuxième edition. 1864. (b) Laucet, vol. il., pp. 917, 544, 564. 1861.

sometimes of much use in the third stage of the disease. Dr. Dickson, of Jersey, (c) says-" My experience satisfies me that in the hypophosphites we have a most powerful agent. I have tried them in about thirty cases, in every stage of the disease, and in the majority-say two-thirds-the improvement has been very marked. I have requested several Medical friends to try the treatment on their patients, and they have mentioned to me that the result was most extraordinary." Achille Vintrus(d) reports that-" Without claiming a specific action for the hypophosphites, I have often prescribed them at the French Dispensary (in London) with very satisfactory results." Lastly, Dr. J. C. Thorowgood thinks that the hypophosphites " are certainly to be regarded as valuable remedial agents in the treatment of phthisis, especially in its premonitory and earlier stages."(e)

But in Dr. Quain's hands the results of treatment by the hypophosphites were anything but encouraging. He tried them in twenty two cases, and states(f) that, "of the twenty cases, six were more or less improved while under treatment; of these six, three were improved in but a slight degree, and only for a short time; in three the improvement was marked, but in one only of the latter has the improvement been permanent; of the two other cases, one continued using the hypophosphite for three months after leaving the Hospital, during which time she grew gradually weaker, and finally died; the other, a man, after leaving the Hospital continued the treatment for some time, but gradually grew worse, and is now dying." Dr. J. R. Bennett, after " ascertaining what was Dr. Churchill's own method of procedure," tried his treatment in twenty cases, at the Victoria-park Hospital, and of these he says,(g) "there were only nine in which the disease did not steadily advance while under treatment, or in which there was any evidence at all of improvement. Of these nine, four only manifested any decided improvement, of the permanency of which, however, I have no proofs in any one instance." Dr. R. P. Cotton(h) has also, on more than one occasion, given this treatment a fair trial, Dr. Churchill's rule for administrating the remedy " being carefully attended to," but found it eminently unsatisfactory; in most of the cases it seemed inert, and the few which improved slightly "were evidently instances of the post, and not the propter hor, since some advanced equally, and many of them more rapidly, under the subsequent use of steel or quinine with codliver oil." And in the last edition of Trousseau and Pidoux's great work on Therapeutics(i), judgment is given on the value of the hypophosphites in phthisis, in these words :-- " La cause des hypophosphites nons parait définitivement jugée dans le sens contraire à celui que M. Churchill nous a fait connaître.'

Dr. Churchill, it must be said, persists in his estimate of the superlative value of his mode of treatment, and denies that the various trials above alluded to were fair trials of the hypophosphites, and in 1866 he "published a collection of reports(k) from nearly thirty Medical Practitioners of all countries, with details of nearly a hundred cases in favour of his discovery." Some remarks on the subject may be found in a review of Dr. Churchill's work in our pages for 1865,(1) and we published a communication from Dr. Cotton(m) on the use of the hypophosphites in phthisis, and some letters from Dr. Churchill. Cotton, and Thorowgood, in 1868.(a) It may be fairly said that the question is still sub judice, and well deserves further careful investigation and experiment.

Mr. Taylor found the hypophosphites highly useful in many

Medical Circular, March 14, 1800. P. 177.

(c) Medical Cercivitie, narray vs. terms. 4. 11.1.
(d) Lenner, vol. lii, p. 273. 1862.
(e) Penetitioner, p. 14. 1862.
(e) Penetitioner, p. 14. 1863.
(f) Lener, vol. li, p. 267. 1860.
(g) Medical Times and Gazztie, vol. li, pp. 438, 467, 489. 1861.
(d) Medical Times and Gazztie, vol. li, p. 163. 1886; and Lener, vol. li.

Traité de Thérapoutique," etc., t. ii., p. 761. Sinc Ed., 1989.
 Traité de Thérapoutique," etc., t. ii., p. 761. Sinc Ed., 1989.
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conditions of exhaustion and debility, and his paper, before quoted, on the administration and effect of these drugs is worthy of close perusal.

Peroxide of Hydrogen was discovered by Thénard in 1818, but belonged to chemistry only till 1856, when Dr. B. W. Richardson commenced an extended and minute study of its therapeutical action and properties, and our present knowledge of it remedial powers is one of the many boons which Medicine owes to that distinguished Physician's talents and untiring love of research and experiment.(0) Water can be charged with thirty volumes of oxygen, but a solution containing ten volumes is, according to Dr. Richardson, the best form for medicinal use. The dose of this is from one to four or six drachms, in pure water. It requires free dilution, as it has a caustic, metallic taste, and it should be given without any other admixture; or it may be given in the form of Oxonic Ether. This, discovered by Dr. Richardson, is a very stable compound of ether and the solution of peroxide of hydrogen, and may be given by the mouth in doses of from ten minims to a drachm, or by inhalation.

Dr. Richardson has prescribed the peroxide in a large number of cases of different forms of disease; and at the end of last year, in a highly interesting and full lecture on peroxide of hydrogen and ozonic ether,(p) he gave a very candid account of his experience of their remedial properties. Speaking of the former, he sums up thus: "The solution of the peroxide of hydrogen may be fairly considered a medicine which promotes glandular secretion generally, quickens the action of iron, and which, to a certain extent, represents mercury and iodine as a specific remedy for syphilis. Problematically, it may be considered as having an influence on nervous function, preventing or reducing over-action. It deserves on this ground extended trial in epilepsy. It is useful as a means of relief in dyspnora, in cases where there is great destruction of the lung and deficient oxidation: but whether its effect is due to the direct addition of oxygen to the blood, or to a sedative action on the nervous centres, or to the promotion of secretion from the liver and kidneys and the removal of temporary congestion, is not known." The ozonic other may be advantageously used in the form of spray, to cleanse and deodorise fetid, ulcerated, or sloughing surfaces; by inhalation, it may be administered in phthisis pulmonalis, especially when there is a cavity. "It soothes in these cases, destroys the fetor of the breath, and relieves the sense of suffocation." And given by the mouth it appears to possess some advantages over the solution of the peroxide in water. Dr. Richardson tried the solution of the peroxide first in diabetes, as a popular theory has attributed that disease to deficient oxidation : but the results he obtained were not encouraging. Dr. Day, of Geelong, (q) has, however, found the ozonic ether very effective, and has prescribed it largely in diabetes; and several observers in this country support his experience. For instance, cases of great and continued improvement under its use, even without restricted dict, have been placed on record by Mr. Bayfield,(r) Mr. Wilmot,(s) and Dr. W. H. Day.(t) On the other hand, Dr. Pavy has not met with success from the exhibition of the remedy. He says.(u) "I have tried both the aqueous and ethereal solutions of peroxide of hydrogen in the complaint (disbetes), but have not been able to perceive that the slightest benefit has been produced. . . . I have come across several cases in private practice, in which the ozonic ether has been tried. In none have I been able to learn that any benefit was produced." Oxygen, more or less dilnted, has long been used as a remedy, and Dr. Birch and some other anthorities, English and foreign, have a high opinion of its value in some diseases, but its use

has always been limited to a few Practitioners. Theoretically. it has high claims on our attention, and, as Dr. Richardson's preparations give greatly increased facilities of administration, we may hope and expect that its remedial powers may be fully and fairly tested.

OFFENCES AGAINST THE PERSON IN INDIA-ROBBERY BY POISONING.

OFFENCES against the person, of a rough and brutal nature, are common enough in England, and we are accustomed to speak and write of our criminal classes, but crimes such as those perpetrated in India are rare among us, and men, though they band themselves together for the purpose of robbery, rarely do so for that of murder also. In India it is different. There human life is even less respected than it is by railway directors in this country, and it used to be no unusual thing to find whole tribes devoted to, and dependent for their livelihood upon, robbery, accompanied by murder. It is true that Thuggee, as a system, has been in great measure, and perforce, abandoned, but isolated bands still prowl along the main roads, seeking for plunder by hocussing their victims, if they can with safety; if not, by murder. The chapter of Indian crime, as affecting personal safety, is a most interesting one, and, for those who care to study the subject, a book just published will afford to individuals living in this country no ordinary opportunities for making themselves, as far as possible, masters of it. The volume we allude to is the work of Dr. Norman Chevers, a name already well known to many interested in the study of Medical Jurisprudence as the author of a valuable work on that subject as it belongs to India. The present volume(a) is in reality the third edition of the work referred to above; but the first edition might be considered a reprint of an essay in the Indian Annals of Medical Science for October, 1854, and the second was drawn up by order of Lord Dalhousic especially for Indian use, and never found its way except into public libraries and a few belonging to those specially addicted to this department of our Profession who gave themselves some trouble to obtain it. Consequently, this may be said to be the first appearance of the book before the public. There is much that is interesting in it, but no chapters more so than those referring to crimes against the person. The conditions of society and the modes of life in India differ so greatly from those observed in this country that crime also assumes a new aspect-for race, caste, and habit affect crime as they do everything else in India. As an illustration, Dr. Chevers refers to a case of murder after which certain Hindus were asked by another of the same race whether they did not mean to bathe. This was at night, and they said No, for, if they did so, they would be suspected. The individual who made the suggestion was subsequently tried for the crime, and the fact of the suggestion was used against him; for as a Hindu after touching a corpse is held unclean till he has bathed, it was considered unlikely that one who had nothing to do with the murder would suggest bathing in the middle of the night.

But of all the crimes accompanied with violence, none exceeds in interest to the Medical man that of robbery by poisoning. The detection of this as a system was in great measure due to Dr. Chevers, who, however, failed to establish a clanship between those concerned in carrying it out, although voluntary associations were evidently formed for the purpose. It should he noted that Dr. Chevers's information refers especially to Bengal and the North-West Provinces, although the crime is not unknown elsewhere. At one time it was especially prevalent in the high roads leading from Calcutta to Patna and Juggernath in Orissa respectively. It also presented various degrees of criminality, from inducing intoxication merely by means of

(a) A Manual of Medical Jurisprudence for India, including the Outline of a History of Crime against the Person in India. By Norman Chevers, M.D. Surgeton-Major H.M. Bengul Army; Principal of the Calcutta Medical College; Professor of Medicale, and Senior Physician, in the College Hospital, etc. Calcutta Thacker, Spinia, and Co. 7p. 861.

⁽a) Leond, vol. ii., p. 200. 1890; British Medical Leonard, March 22, 1862. (b) Leond, vol. ii. 1882. (c) Leond, vol. i. 1882. (c) Leond, vol. i. 1883. (c) Frield March Leonard, vol. i., pp. 621 and 604; 1890. (c) Frield March Leonard, vol. i., p. 423, 1888. (d) Leond, vol. i. p. 206. 1890. (d) Leond, vol. i. p. 206. 1890.

the coarse spirit of the bazaars to causing death by various combinations of poisons. The poisons employed also varied in different instances; sometimes mineral substances, like white and yellow arsenic (arsenious acid and orpiment); much more frequently vegetable matters, as opium, hemp or bang, aconite, nux vomica, and (above all) datura were used. The last-named plant, represented in this country by the Datura stramonium commonly used in Medicine, is in India exceedingly common. Various species abound, especially the Datura alba and the Dutura fastnosa, and there is also another, known as Datura ferox. Exceedingly abundant, these plants would also seem to be well known as dangerous, both in the leaf and in the seed. These last are the portions of the plant chiefly used by the poisoners, who decorticate them after parching, pound them, and in some instances distil from them an essence. When powdered, they are fit to mix with the food or drink of the individual selected for a victim. or to be given him along with tobacco to smoke, whilst the essence is added to the sweetmeats so commonly used in the East.

Curiously enough, it would seem that the lowest classes of the community are usually selected as victims-fakirs, prostitutes, boatmen, pilgrims, etc.; none are so poor as to be out of danger, none too high could they only be reached; but there is the difficulty. The poorer travellers along the roads are more readily beguiled into conversation; the custom of the country-that perfect strangers, if of the same caste, should eat and smoke together-facilitates the nefarious projects of these professional robbers; whilst people of higher rank travelling with vast companies of retinues could hardly, if at all, be reached. The class of prostitutes would seem to be very liable to attempts at drugging, probably from their friendlessness, but also from the custom they have of investing all their savings in personal ornaments, which can be readily removed and hidden. They are, however, also made the agents of the professional poisoner in certain instances. One illustration of the mode in which they inveigle their prey may serve for many. One of the professional poisoners (Khoman) specially devoted himself to native carriers. He hired the carts when the drivers had just been paid, and were in possession of their money, and set out with them. When they halted to cook, he had no flour, and set off on the pretence of procuring some, but returned saying he could get none. One of the cartmen said, "We have plenty of flour, take some of ours;" and he gave him about a pound and a half. Khoman went off, but returned immediately, saying he only wanted enough to make two cakes; he had received too much, and begged leave to return the remainder, which he had mixed with datura seeds. The flour thus returned was used by the drivers for their meal; they speedily became insensible, and were robbed of all they possessed.

The effects of the datura in these cases are very curious: sometimes stupor only is produced, sometimes complete insensibility; but when this is the case, the victims, after recovering from the immediate effects of the drug, remain in a fatuous or delirious condition for one or two days, thus giving ample time for the escape of the robber. When the seeds are given, the symptoms continue as long as any of them remain in the intestinal canal, and probably in many cases much longer-says Dr. Chevers. He further states that there appear to be three sets or stages of symptoms observed in cases of poisoning with datura :-

1. Headache, dryness of the throat and fauces, urgent thirst, faintness, difficulty in walking, languor, and impairment of vision, the pupils being greatly dilated. When the dose is considerable, insensibility rapidly supervenes.

2. Maniscal delirium, flushed face, eyes glistening and in constant motion, the pupils being exceedingly dilated. There is no fever, but intense thirst and violent perspiration from incessant motion, the pulse remaining very slow. All the symptoms are noted as having a very remarkable resemblance to those occasioned by belladonna.

3. Those accompanying the fatuous condition already described

It would seem that in small doses intoxication or deligium is the most marked symptom; in larger quantity insensibility speedily supervenes, and death may follow, or the patient pass into the fatuous condition described. It would also seem that the drug is sometimes given with no further evil intent than that of inducing the maniacal and fatuous symptoms for the sake of affording amusement to the bystanders. In most instances the knowledge necessary for the use of the drug in robbery would seem to be handed from one professional scoundrel to another-in many cases coming from Oudh, but in several acquired by coolies in the Mauritius.

It may be worthy of note, that the seeds of the datura closely resemble those of the capsicum universally used over India as a condiment, and the difficulty of their detection is enhanced by the fact that, apart from bitterness, the poison-seeds have little taste, and, as impure salt is generally used in India, the bitterness may be attributed to its excessive use without exciting any suspicion on the part of the intended victims.

THE WEEK.

TOPICS OF THE DAY.

WE are glad to be able to announce that substantial progress has been made by the Committee of the three English Corporations in the work of drawing up a scheme for a conjoint examination in Medicine, Surgery, and Midwifery. At the last meeting, on Monday, the scheme to be submitted to the governing bodies of the Royal Colleges of Physicians and Surgeons and of the Apothecaries' Society was agreed on. Without professing ourselves aware of all the details of the arrangement - which, of course, may yet be submitted to further discussion in the Councils of the Corporations-we believe we may state confidently that the following are the chief features of the scheme :- In the first place, the Board is truly to be a conjoint one, the examiners being nominated by the three Corporations. The nomination of the examiners will be apportioned thus : - The Royal College of Physicians and the Society of Apothecaries will nominate examiners in Medicine; the Royal College of Surgeons will nominate examiners in Surgery ; the Royal College of Physicians, the Royal College of Surgeons, and the Society of Apothecaries will nominate examiners in Midwifery; the Royal College of Physicians and the Royal College of Surgeons will nominate examiners in Anatomy and Physiology; the Royal College of Physicians and the Society of Apothecaries will nominate examiners in Chemistry, Materia Medica, and Botany, and in Forensic Medicine. Candidates who shall pass the conjoint examination will be entitled to the licence of the Royal College of Physicians, the Membership of the Royal College of Surgeons, and the licence of the Society of Apothecaries, or to any one or two of these diplomas, without other fee or examination, upon undertaking to comply with the by-laws of the respective Corporations. The fee for the conjoint examination and diploma or diplomas is fixed at thirty guineas. A sufficient portion of the proceeds will be apportioned to the Royal College of Surgeons for the support of the Hunterian Museum and the library of the College. The question of the co-operation of the Universities, either by the nomination of assessors or examiners, has not yet come formally before the Committee. At this stage of the proceedings we must repeat that their co-operation would be most welcome and desirable. provided it be thorough enough to include the submission of all University students previously to graduation to the examinations of the Conjoint Board. This only is requisite to carry ont, well-nigh in itsentirety, the "one-portal" system. We trust that the Medical members of the governing bodies of the Universities will see the benefit to the whole Profession which must accrue from adopting this course—the benefit of union and sub-

stantial uniformity. It cannot for one moment be maintained that the Universities would risk either dignity or privilege by joining thus hearfly in the amalgamation movement. Those bodies would have the power of supplementing, in the case of their graduates to any extent they please the examinations of the Conjoint Poard, and if the question of the fee raised any difficulty, the amount to be paid by undergraduates might be specially arranged. It is clear, however, that if the Universities still refuse to submit their graduates to the examination, the Conjoint Board, however we may regret it, cannot accept their co-operation. The Corporations have the power of nominating as examiners the very best men which Medicine can produce. The Board can gain nothing, therefore, from the Universities which the Corporations cannot supply, and it is only for the sake of uniformity and union that the co-operation of the Universities is so desirable. We heartily hope that it may be given, and we fully believe that sooner or fater our hope will be realised. But, at all events, we congratulate the Committee on having discharged its duties thus far so successfully. As regards England and Wales, we repeat that the work which it has in hand is unquestionably the most practical piece of Medical reform since the Act of 1815.

In another column we publish a syllabus of Mr. Flower's lectures on the "Comparative Anatomy of the Digestive Organs," which commence on Friday, the 17th inst. The present course will be occupied with a description of the tech of mammalia—organs of special interest to the paleontologist and comparative anatomist from their indestructibility and from the index they furnish to the character and habits of the animals. The Medical students of London are, perhaps, not aware that these lectures are open to them, on application to the Secretary of the College. If the attendance is in any degree commensurate with the interest of the subject—and, we may assuredly add, the value of the lectures—the theatre of the College will be overflowing.

The Royal College of Physicians have issued a short, but thoroughly concise and practical statement on vaccination and revaccination, in view of the present prevalence of small-pox. The College recommends:—

"1. That all persons who have not been vaccinated, or who have not already had small-pox, should at once be properly vaccinated by competent vaccinators. 2. That all persons who have passed the age of puberty, and have not been revaccinated since infancy, should be revaccinated. 3. That all persons, of whatever age, who have not sufficient and characteristic marks, and are likely, as at the present time, to be exposed to the infection of small-pox, should be revaccinated."

Dr. Douglas Powell has been elected Assistant-Physician to the Charing-cross Hospital. Two candidates for the Assistant-Surgeoncy have been selected; there is practically, therefore, no vacancy for that office.

We hear there is a vacancy for an Assistant Obstetric Physician to University College Hospital, and that Drs. Squarey, Wiltshire, and Edis are candidates for the post.

It is rumoured that the staff of University College are still endeavouring to obtain an amalgamation with another Hospital, for the purpose of giving increased facilities for Hospital work, with dresserships and clerkships, to their students.

The examiners in physiology of the University of London, Mr. Henry Power and Dr. Michael Foster, have addressed a letter to to the Registrar of the University, in which they suggest that the virde ever examination in physiology in the first M.B. examination should be abolished, or limited to clearing up uncertainties or obscurities of expression in the written papers, but that the practical examination in physiology should be remodelled. Hitherto, the practical examination has consisted of the exhibition of prepared microscopical specimens to be recognised by the candidate. A quarter of an hour has been allowed to each candidate, during which time six or eight

specimens only can be shown. It would appear, however, that the supply of specimens at the service of the examiners has been limited, for they naïvely write-" As the students wait for their turn, they are told by those just come out what the preparations are; and hence the later comers appear to have more knowledge than they really possess." To remedy this and the other imperfections of the present system, the examiners suggest, "Let the whole of one day, or the halves of succeeding days, be given up to practical histology, and let the students be examined (say) in batches of twenty-four. The batch being placed in a suitable room, there would be allotted to each student a microscope, glasses, reagents, needles, scissors, razor, etc. Before each student there would be placed a few (four or five) characteristic mounted specimens, and as many portions of tissue, fresh or prepared for examination, all numbered and carefully selected. Each student would then have the whole three hours in which to examine without hurry. and to report upon the tissues and specimens thus presented to him. The examiners might also request the candidates to put up preparations illustrating this or that tissue or organ." The examiners also suggest that "each examiner might take a student aside for fifteen minutes, and during that interval put him through some simple physiological exercises-ex, gr., simple stimulation of nerve and muscle, coagulation of blood, digestion, action of heart, uses of physiological instruments, physiological chemistry, etc. In this way, the two examiners would, in the three hours, pass before them the whole batch of twenty-four." We are glad to see that the Senate of the University have acceded to the suggestions of the examiners, as far as histology is concerned—at least, they deem it expedient to limit the practical examination, in the first instance, to histology. The candidates, in order to pass the examination, will not only have to familiarise themselves with the whole range of tissue anatomy, but they will have to acquire themselves a certain amount of manipulative skill, which cannot fail to be of use to them in their after-study of pathology. The Senate of the University has, thus far, made provision for earrying out the plan of examination indicated by the examiners, and notice has been given to the various Medical schools that, at the first M.B. examination of 1872 and subsequent years, candidates will be required to pass a practical examination in histology. The question whether it is desirable that the practical examinations in physiology should be carried further. is left open; but, provided the students are not required to take part in vivisection or operations inflicting pain, we can see no reason why these examinations should be limited to histology. We heartily agree with the Senate, however, that it is advisable that the viva core examination in physiology should be retained. and that it should not be limited to the subjects of the written papers. The experience of all examiners of long standing we elieve to be in favour of combining the methods of examining by written papers and by oral conversation. Many a man who has not the gift of expressing himself fully and perfectly on paper, can display his knowledge to better advantage when "drawn out" by an examiner. The converse is equally true.

The subject of the pathological changes in the spinal cord in cases of traumatic tetanus was discussed at unusual length at the Pathological Society on Tuesday last. Dr. Clifford Allbutt brought forward specimene obtained from four persons who had died from traumatic tetanus. In these there were more or less appearances of softening, renous congestion, extravasation, especially in the certical and lumbar enlargements of the cord, together with proliferation of the epithelium in the central canal, and alteration of the nerve cells of the anterior cornus of grey matter. On the other hand, Dr. Mozon said that many of the spinal cords he had caramined, taken from persons who had died from tetanus, exhibited no change which could be fairly said to be pathological. He, moreover, argued that considerable pathological changes in the cord were not likely to be found in tetanus, because in no case of recovery from

tetanus of which he was aware was the disease followed by paralysis. One point noticed in two for. Clifford Allbutt's cases has practical bearing. In these the sheath of the nerve of the injuned limb contained pus. Dr. Allbutt observed that such cases suggested a rediseasion of the question whether the nerve of the injuned limb should be divided in the onset of trausancit etams.

ME. DEREELEY HILL ON THE STATISTICAL RESULTS OF THE CONTAGIOUS DISKASES ACTS.

We have before us, in a pamphlet form, extracted from the Journal of the Statistical Society of London for December, 1870, Mr. Berkeley Hill's paper on the Statistical Results of the Contagious Discases Acts, read before Section F British Association, at Liverpool, Swotember, 189

In attempting to estimate the numbers of venereal patients in London, Mr. Berkeley Hill thinks that we must accept with much reserve the estimate of the Medical Officer of the Privy Council, that only about 7 per cent. of the sick poor are suffering from venereal disease of any kind, and only about 31 per cent. from true syphilis. But even accepting this estimate and the calculation of the Medical Officer of the Privy Council, that 1,500,000 persons are annually treated gratuitously in the metropolis, Mr. Berkeley Hill shows that we have 52,500 persons yearly suffering from venereal diseases; and, as 53 per cent. of the syphilitic patients are adult males, we get 28,000 of the male working population of London alone every year more or less hindered by syphilis from earning their livelihood. And these calculations do not include patients treated by regular Practitioners, by druggists, or by quacks, or those undergoing no treatment at all-a very numerous class. It must, however, be observed that the estimate as to a million and a half, or half the whole population of London, being treated gratuitously is open to the objection that we have no means of discriminating between persons and cases. The repeated appearance of the same person at an Hospital, or his application to another institution, increases the apparent number of persons obtaining gra-

As another fact indicating the extent to which venerad disease prevails among the young adult population, the Berkeley Hill extracts from the Annual Reports of the Army Medical Department a table showing that 16 per 1000 of those who offer themselves as recruits have true syphilis, and that 38 per 1000 of the rejected have syphilis. We suspect that in making use of the term 'true' or 'constitutional' syphilis as a cause of rejection of recruits for the army, Mr. Berkeley Hill assumes more than the returns warrant him in doing, as we are informed that veneral sores of all kinds are classed among the diseases which disqualify recruits from ntering the army. He also gives a table (No. XII.), purporting to be extracted from the official statistical reports of the health of the army, showing the invaliding for veneral diseases in the British Army, as follows:

Year.	Number Discharged for Venereal Discases.	Ratio per 1000 of those Invalided.
1864	106	24
1865	185	39
1866	146	24
1867	172	52
1868	131	38

We have looked in vain through the reports of the years here given for the above information, or for any returns from which it may have been compiled; but, taking the Abstract No. 1 in the appendix of each volume for the five years 1864 to 1868 as our guide, we extract from it the following particulars, showing that in 1000 invalids discharged from the service the proportion of men disabled by venereal diseases is even higher than that given by Mr. Berkeley Hill. Although the proportion of the same class of invalids to the total strength of the army is not so high as might have been anticipated, it represents the total loss of half a regiment in five years, and, valuing each soldier at £100, a money loss to the amount of £49,300.

Year.	Annual mean strength.	Total number invalided.	Number invalided for enthetic diseases.		Ratio per 1000 invalids of men disabled by enthetic diseases.
1864	 63,153	2656	116	1.8	56.4
1865	 62,911	1965	120	1.9	61-0
1866	 59,768	1789	77	1.3	43.0
1867	 62,901	1552	83	1.3	63.4
1868	 68,350	1471	97	1.4	65-9
Total	 317,078	8833	493	1.2	55.8

These numbers refer only to men who have served throughont the entire year in the United Kingdom. The term enthetic diseases, moreover, includes constitutional syphilis and the results of genorrhose, but the number invalided for such causes presenting prival facir evidence as to their origin gives a very inadequate idea of the real number of men disabled by enthetic diseases, as there can be no doubt that a large proportion of the cerebral, pulmonary, and abdominal affections, also of the chronic rhematism on account of which soldiers are annually discharged from the service, is of syphilitic origin.

DR. C. A. GORDON, C.B.

THE correspondent of the Daily News, who was the first person to enter Paris after the capitulation, among other incidents of his ride into the city, gives some information concerning Dr. C. A. Gordon, C.B., which will no doubt be gladly received by the friends of that officer. It appears that, since his arrival in Paris, some days before the commencement of the siege, Dr. Gordon has lived at the Hotel de St. Honoré, an old-fashioned and well-known house, kept by a worthy North Briton named Unthank, who has taken a pride in asserting, what the correspondent of the Daily News believes to be true, that, under his auspices, Dr. Gordon has lived better than any other man in Paris. The Hotel de St. Honoré is said to be the only house in Paris into which horseflesh has not been allowed to enter. There is some store of oatmeal in Paris, and Dr. Gordon's nationality having innred him to the use of porridge, he was enabled to enjoy and thrive on it, while others, not to the manner born, gave themselves internal uncasiness by cating the stuff which bore the conventional name of bread. But Mr. Unthank was able to do for his guests better still than this, as, on the day on which the Daily News correspondent dined at his establishment, a fowl was suppliedpretty nearly the last in Paris, and for which, while it had its feathers on, 80 fr. had been refused. The visitor also bears testimony to the excellence of the Scotch whisky-toddy which Mr. Unthank keeps for his friends. So, between one thing and another, we hope to see Dr. Gordon return to this country nothing the worse in bodily frame from his siege experiences.

FOUL AIR IN THE LAW COURTS.

It is not only amongst the ignorant and projudiced that common sanitary precautions are neglected. It is well known that for years the Houses of Parliament were hadly ventilated and uncomfortable. The state of our law courts is really disgraceful. Those at Westminster are constructed as badly as can be conceived for comfort and health. Cases are not uncommon in which persons who are long engaged in either of them are seized with faintness or some indisposition which requires their removal. As a juryman is conscioually the victim, the trial has to be stopped, or, as was the case on Tucsday last, a new jury to be empanelled, and the trial commonced de nose. The Time reporter attributes the foul

atmosphere of the Court of Queen's Bench to the overcrowding of the passages leading to it.

"As it is," he says, "these passages, the only aremus for air and means of ventilation, are allowed to be densely packed with human brings close up to the bar and the jury-box, from which it follows that the best of the Court is intensely increased, and that the ventilation of the Court is entirely prevented; added to which, the entrance of persons is so obstructed that it is only after a severe struggel it can be effected."

No donbt this is correct, but why should the passages be the only means of ventilating the Court? Surely it would be easy to devise some plan of letting fresh air into a building even as badly constructed as the Court of Queen's Bench.

MURDER OF PRENCH MILITARY SURGEONS BY PRUSSIAN SOLDIERS. A CORRESPONDENT of the Daily Notes, writing fron Dijon, on the 26th nlt., describes his visit to Hauteville, where the members of the Saone and Loire Ambulance had been murdered on the night of January 21 and 22, in the house of the sister of the Mayor of Hauteville. This lady stated that on the night in question her house was converted into a temporary Hospital for French wounded, the red-cross flag was hoisted, and, secure under its fancied protection, the Surgeons and infirmiers, having attended to the wounded, were scated in the kitchen, awaiting some food which was being prepared for them. Suddenly the Prussians, under command of an officer, rushed in to search for Francs-tireurs, long after firing had ceased on both sides. They found none, but attacked the unarmed Surgeons and attendants. The head Surgeon, Dr. Morin, received two balls in his head, an officer discharged his revolver into his breast, and the soldiers finished him off with their bayonets. Dr. Milliard was murdered outside the house, while trying to escape; the infirmiers, D'Heret, Champigy, Fleury, Legros, and Moine, were fired on and wounded by officers armed with revolvers. The assassins carried off the four horses, materials. and even the Surgical instruments belonging to the ambulance. The same correspondent confirms the account of the Franctircur captain having been burned to death by the Prussians at Daix.

A HOMGEOPATHIC DIAGNOSIS.

A LADY, as we are informed, was approaching the age of 50. She was the mother of a numerous family, and her youngest child was born about ten years ago. She had resided for many years in India, but had been living at home for a considerable time, and, on the whole, had enjoyed good health. She was an ardent homosopathist, and in October or November last came up to town to consult the practitioners of the homecopathic art on account of general malaise, lumbur pains, some abdominal swelling, and slight jaundice. She was ordered to take Turkish baths, and to employ various remedies, as to the nature of which we are, of course, in ignorance. An aggravation of symptoms, and an increase of debility, followed this treatment, and we believe the patient procured the attendance of another homosopathic physician, who took quite another view of the case, and stated that all that his predecessor had done had been utterly wrong. The premature birth of a stillborn child was the startling revelation of the true nature of the case to all concerned, and the death of the mother a and comment on its diagnosis and treatment by the homosopathie

The age of the patient, the interval since the birth of her youngest child, and her long residence in India, might for the time have diverted the minds of her attendants from the smapicion of pregnancy; tut we maintain that if the unand means of of physical diagnosis of that condition had been carefully employed, the nature of the abdominal swelling would have been detected, and the pregnancy would in all probability have advanced to a natural and safe termination.

That portion of the public who resign themselves to homoso-

pathic treatment, do so, of course, on their own judgment and at their own risk. How immensely that risk is increased, when earcless, incorrect diagnosis is superadded, the case which we have mentioned affords abundant evidence.

THE CHAPLAINCY TO STEEVENS' HOSPITAL, DUBLIN.

We regret to observe that one of the indirect effects of the disestablishment of the Church of Ireland has been to deprive Stevens' Hospital of the sum of £1000, with which the chaplaincy of the institution had been endowed by Mrs. Eather Johnston, better known as "Stella." The chaplain, the Rev. William Dobbin, having claimed, in virtue of his office, to be considered as a perpetual curate of St. James' Parish, his Connsel, Mr. Piklington, Q.C., quoted the following clause in Mrs. Johnston's will, said to be in the handwriting of Dean Swift:—

"And if it shall happen (which God forbid) that at any time herefore the present Established Episcopal Church of this kingdom shall come to be disestablished, and no longer the National Established Church of the said kingdom, I do declare wholly null and void the bequest above made; and I do hereby divest the governors of the principal and interest, and in that case it is to devolve on my nearest relatives bring."

Judge Lawson, one of the Commissioners of Church Temperalities, remarked that it was rather curious that Dean Swift himself had made a similar disposition. The claim was disallowed, on the ground that chaplains of public institutions cannot be considered as parochial curates.

SEWAGE AT OXFORD.

Is view of the impending heavy penalty for fouling the Thames with the town sowage, after May next, the local authorities (University and city) of Oxford have adopted a plan for theroughly draining the whole district of the local board at a coat of 240,000. This will provide for some twenty-three miles of severes, the contents of which, kept separate from the rainfall, will be conveyed to Iffley, more than two miles down the river.

FROM ABROAD.—THE WOUNDS FROM THE NEEDLE GUN AND THE CHASSEPOT—PROFESSOR BILLROTH'S LETTERS FROM THE SEAT OF WAR

In the Deutsche Klinik for November 19, Dr. Ewich furnishes a communication upon "The Differences in the Wounds caused by the Needle Gun and the Chassepot." Residing at Cologne, he has had ample opportunity of studying the subject on the persons of hundreds of the many thousands of wounded French and Germans who have been consigned to that city. 1. The first point he notices is that the needle gun, as a general rule, gives rise to a much wider track, and in consequence the matter arising from the wounds it causes is discharged with much greater facility. 2. Then the orifice by which the ball from the chassepot enters is much smaller than that caused by the needle gun, and, in recent wounds, is sometimes scarcely perceptible, resembling a mere round suggillation, which has to be inspected closely to discover the small aperture. The orifice of exit, on the contrary, is so wide that the end of the finger or thumb can be passed in. The difference in the two orifices is also quite perceptible in the wound from the needle gun, but it is not so remarkable. 3. The tracks of wounds of the thorax coursing under the skin, caused by either of the two arms, gave rise to little pain or suppuration, while those involving the soft parts of the limbs were attended with abandant discharge. 4. These circular wounds of the thorax are much more dependent upon the elasticity of the skin than upon that of the ribs. The shape of the ball does not seem to exert any influence. 5. The narrow, long wound-tracks in the soft parts, and especially in those of the thigh, more easily give rise to the gravitation of pus than do the wounds with wider tracks. Such cases were oftenest

observed smong the German wounded, although the wounds with wider tracks, caused by the needle gun, in soft, lax tissues, were not exempt from such gravitation. 6. The grazing and spent shot, which sometimes injured only the skin, or induced slight inflammation in the vicinity, came most frequently from the chassepôts, because of their being fired from greater distances. 7. The chassepôt causes the same injuries to the joints and shafts of the bones as the needle gun; and sometimes cases which at first appear as mere grazing of the bone by a chassepôt ball, at a later period are attended with much suppuration, and turn out to be fractures. 8. Owing to the shape of the chassepot ball, however, this will sometimes graze the shaft of a round bone, which, by a needle-gun ball, would have certainly been fractured. The mere striking of the bone without fracture may, however, by the contusion it gives rise to, set up inflammatory action in the periosteum and the medulla of the bone, inducing osteo-mvelitis. 9. The centre of gravity of the needle-gun ball lying more forwards than that of the chassepôt, if it strike the shaft of a bone with even less force, will usually crush it. The chassepôt will only produce this effect when fired point-blank; otherwise, it may easily glance off, or become so compressed as to give rise to the supposition of the lead being soft. 10. This glancing off (conturirung) of the ball, however, may occur with the needle gun, but in a far less proportion than with the chassepôt. Exact statistics as to the lesser gravity of these injuries to bones from the chassepôt are not yet attainable. 11. To the form of the ball is greatly due the intensity of the injury, and in a humanitarian point of view the preference should be given to the chassepôt. Dr. Ewich enters into an elaborate comparison of the form,

Dr. Ewich enters into an elaborate comparison of the form, weight, and mode of propulsion of the balls of the needle gun, chassepôt, and mitrailleuse; but for his account of these, we must refer those interested to his paper.

Professor Billroth, in his tenth letter, observes that although the newspapers were constantly announcing the great dearth of Surgeons, he never could make out when and where this existed, and he and all those with whom he conversed on the subject found them in superfluous abundance. The Hospitals at Woissenburg and Mannheim were already well supplied with skilled assistants; and although it was not always easy to refuse the crowd who were pressing for active employment, yet how could it be given to persona whose capabilities were known to no one, and who, arriving from all parts of Europe, would have only interfered with or paralysed the activity of assistants who had been chosen in consequence of their ability. It is obvious that all that could be done for the some ten Surgeons who arrived daily was to refer them to the period of visiting the patients, and then the busy officer on duty could only find time to give them the briefest information. Much more might have been done for them if some of these numerous Surgeons had limited their inquiries to definite points. Had any experienced inquirer busied himself, for example, with collecting and pursuing cases of gunshot wound of the thigh, knee, etc., he would have been able to visit the various Lazareths in a systematic manner, and would have received every possible assistance.

"That immediately after a battle, and especially in an enemy's country, Surgeons are always too few in number in true enough, and will always remain so. How can it be otherwise? The commanding officer, himself, often does not know how soon a battle may take place, or what extension it may take and if he does know he will not communicate it beforehand. The advancing army is already overladen with it enormous seterici, and it is impossible that this should be augmented by multiplying field Hospitals ten-fold. Admitting that there might be a great amount of aid organised by the volunteer societies at a few miles' distance from the seat of war, and which might be a dyread by telegraph of the commence-railways to become obstructed, or locomotive or horses employed that he might find required for strategetic purposes? Were they even possessed of horses, these would be liable to scirater by the military. If a nation has finally resolved to

wage war, before all things it demands that the armies it sends forth shall prove victorious. In face of the leading idea, any scruples on account of the loss of a thousand or two men, more or less, would be criminal towards the country, and would be an insane perversion of humanitarianism if defeats or partial victories resulted from a temporary care for mea's lives impeding the suitable strategetical combinations, and thus prolonging the war more and more, and increasing the losses that might have occurred. I will not say that during the present war all has been done that was possible for the supply of rapid aid to the wounded ; but as long as sanitary columns (Sanitutscolonnen) and field Hospitals cannot be transported through the air to their appropriate positions, some days must always clapse before an extensive battle-field can be cleared, the slightly wounded sent far away, and materials enough brought up to erect field Hospitals for the treatment of the severer cases. Two or three days may well be required for the completion of all this, although when good means of communication are still open it may be accomplished more rapidly.

Professor Billroth believes that in future wars it will be essential that the Aid Societies and Johanniter shall be organised in the same manner as the military Medical service. for at present it is quite a matter of chance whether the Hospitals they do erect are supplied by suitable persons. Still, the active usefulness of all voluntary bodies must be dependent on their means of locomotion and the state of the communications : several instances have occurred in which the sanitary bodies have been entirely separated from their material and means of usefulness. Members of such societies should travel in not toolarge numbers, some of them, not in connexion with their waggons, but free in all their movements, holding themselves in readiness for administering and supplying the Hospitals about to be erected, the entire body working harmoniously under the direction of the Surgeon-in-chief. In travelling-bags and knapsacks they should carry as many bandages and instruments as they conveniently can, but not more. When their services are no longer required, they can move on to where they are in demand. "An iron will and an iron constitution are prime requisites for the members of such Lacareth-colonnen."

Returning again to the subject of the superabundance of volunteer Surgeons, Professor Billroth observes :---

"As I have already said, neither at Weissenburg nor at Mannheim did I find any lack of Doctors, while all who had the management of Hospitals suffered from their superabundance. Almost all of the great number who came, especially during beptember, did so with the form of speech expecially during the presents, did so with the form of speech with the form of speech, for if they were put to treat the weary and footorer, the slightly wounded, or those suffering from dysentery and typhus, they then said that they had not travelled hundreds of miles for such purposes. They were for the most part mere battle-field loafers, every one of whom wished to be Surgeon-in-chief, and act without control. As the majority of the German Professors of Surgery who were not officially attached had already offered their services, it was very natural that they should be preferred as chiefs of the aid societies? Hospitals."

In contrast with these were, however, the Medical officers attached to the Dutch Red-Cross Society, who undertook and persevered in the most laborious work in their own Hospitals, or in any others in which their services of any kind promised to be useful: and warm indeed were the thanks bestowed upon them by the sick soldiers and wanderers. The reluctance of the volunteer Doctors to attend to any but the wounded became quite epidemic, although it was in this direction that aid was chiefly required. At first, of course, the number of wounded always is in excess of that of the sick; yet after a while, even during this war, which at first was carried on during a period so exceedingly favourable to the health of the troops, the numbers soon became alike, and after the second month the sick were in excess of the wounded. This, which is only a result of the reported experience of every war, has not been sufficiently taken into account. The number of the Lazareths was indeed, for this reason, too few, or the military force would not have been weakened as it was by the distant transport of even

slight cases of diarrhosa, which in a few days would have been able to rejoin the army. So, also, slight cases of dysentery, which were transported by the railways day and night, lying at the bottom of luggage trains, scarcely covered with straw, and often unaccompanied by Medical aid, were rendered much worse, although the reports in the newspapers on the subject were exaggerated. Professor Billroth speaks highly of the sanitary trains (Sanitatezage), which were soon arranged for the transport of the badly wounded, in which, suspended on their mattresses, they lay in great case, Care had to be taken, however, not to suspend too many in one carriage, cwing to the great difficulty of ventilating it. The most sensitive patients were not those suffering from fracture of the limbs, but the subjects of injuries of the chest, who were sometimes thrown into a state of the greatest suffering on the occurrence of any shaking movement. These patients felt easier when lying on a bed placed on a mattress or sack of straw, or, when possible, on three or four mattresses piled on each other. When such accommodation could not be obtained, it was found best to keep them on their bedsteads, the feet of which rested in straw or chaff. By the press it was often urged that these sanitary trains should be more generally employed, in order that the wounded should be at once transported with as much comfort as possible. This is all very well on paper; but practically such trains are sometimes in one place and sometimes in another, become " requirirt" for military purposes, and are dispersed in every direction. It is impossible that such empty trains can be allowed to stand at railway stations near the seat of war, awaiting their employment for their specific purpose. They would only serve still further to bewilder the railway officials, who have, as it is, enough to do to meet the military exigencies. Most of the Hospital trains, which were in September despatched with some difficulty to the vicinity of battle-fields, returned either without any wounded, or filled only with the slightly wounded and typhus cases.

After describing his daily routine of work at Mannheim, and giving some idea of the operations he performed, Professor Billroth continues-

" With many men the accounts of their proceedings in war-time much resemble that of their success in the huntingfield. The number of badly wounded and operations which are said to have crowded into the hands of some of our otherwise sensible colleagues, is simply incredible. Those who are aware of what a Surgeon who has had very great experience, and who has long been accustomed to rapid thought and ence, and who has long the action, can execute, and then hear from Practitioners, who, as Surgeons, can only be regarded as mere dilletanti, that they have been able to get through twenty or thirty times the work in half the time, can only regard such statements as very vexations. A Surgeon will not enumerate as operations the removal of balls, dilatation of wounds, and opening of absorand if the Practitioner does lug these into account, it will still remain a falsehood when he boasts of his hundreds of operations and his thousands of wounded. You must not expect that I am going to deal with these hundreds and thousands, although my field of observation has been a proportionally large one.

Having now said what he wished on these personal matters, Professor Billroth, in his future letters, proposes to give some of the results of his observations of the cases that have come under his care.

(To be continued.)

MUSCULAR ANOMALIES .- At a recent meeting of the Royal Irish Academy, an abstract from a paper by Dr. McAlister was read, entitled "Additional Observations on Muscular Anomalies in Human Anatomy, with a Catalogue of the principal Muscular Variations." The author stated that there are more than 2000 deviations from the normal arrangement of the muscles in the human body. Of these npwards of 1500 had been seen by Dr. McAlister himself. The paper will be published.

DR. RICHARDSON ON CHLORAL HYDRATE.

BEFORE commencing his lecture on experimental and practical Medicine, on Tuesday last, Dr. Richardson offered some observations on the subject of hydrate of chloral, to which we would call the attention of our readers. He said-

"My lecture to-day is on suspended animation, but I will ask you to allow me first to offer a note or two on another subject at this moment of urgent importance—I refer to the administration of the hydrate of chloral. There have recently been two assumed deaths from the hydrate. In the course of the past ten days I have myself been consulted not fewer than three times on what have been considered dangers attending the administration of the hydrate; and I know generally that doubt and measuress prevail in the Profession respecting the abuse as opposed to the use of this agent. I think it right, thereas I had much to do in introducing chloral hydrate into Medical practice into England, to answer a few of the ques-tions that are most pressing from this place, where so many demonstrations of the action of the hydrate have been carried

out.

"Question 1.—Is the practice of resorting to the use of hydrate
of chloral as a narcotic, in the absence of Medical advice and
meaning avanture amount the people? The direction, becoming a common practice amongst the people? The answer to this question is strictly affirmative. The novelty of its administration, and of proving its effects at an end, the hydrate is not at the present time used so largely by the Medical Profession as it was a few months ago, when its true place in the Materia Medica was less clearly defined. The sale of the hydrate to Medical men is, consequently, considered as declining, bydrate to Medical men is, consequently, considered as decining, while the general sale is, perhaps, increasing. Corresponding while the general sale is, perhaps, increasing. Corresponding conversant with cases of what may not improperly be called chloral drinking, and in which singular and serious symptoms are presented. Three classes of people specially resert to hydrate of chloral—rize, alcoholic devotees, who take the substance to counteract excess of alcohol and of alcoholic delirium; sufferers from neuralgia and other painful chronicdiseases, who find in the substance temporary relief from pain; and persons having much mental worry, grief, or care, who, flying to it at first in order to obtain sleep, continue it until the occasional practice becomes a persistent habit. As an indication of the quantity of hydrate of chloral used in this country since its introduction here about a year and a half ago, country since its introduction acre about a year and a half ago, I may state, incidentally, on what I have every reason to consider reliable authority, that one commercial house alone has supplied the English drug market with ten tons of the substance; three other houses have, it is supposed, supplied as much, so that fifty tons weight have been on this calculation sent out—an amount which, divided into grains, would yield over 36,000,000 narcotic doses to England alone since August, 1869.

"Question 2.—What is a dangerous, and what is a fatal single dose of hydrats of chloral? The largest dose I have known to-be taken was 120 grains. This dose produced a prolonged and dangerous coma, but recovery ultimately followed. I think we may consider 120 grains, as a maximum dose for an adult, dangerous, but not of necessity fatal. Beyond 120 grains the danger increases, and 180 grains may be considered a dose that would prove, in the majority of cases, positively fatal.

" Question 3 .- What quantity of hydrate of chloral can be given with safety in divided doses, during a stated period of time, say of twenty-four hours? Judging from the physiological effects of hydrate of chloral in relation to dose and to order of phenomena in relation to time, I should infer that the body cannot in relation to time, I should infer that the body cannot decompose and throw off the hydrate more rapidly than at the rate of from five to seven grains an hour. There will be difference according to age of person, the temperature to which the body is exposed after the dose has been taken, and the largeness of the dose, a small dose being disposed of quicker, in proportion, than a larger one. But the variation is not such as to alter materially the rate of action from the estimate as to after materially the rate of action from the estimate given: I should consider consequently that 120 grains administered, even in divided doses, in twenty-four hours, would be the safe limit of administration. In the treatment of tetanus this proportion has been exceeded, butnot, I think, to the safety of the patient; for the fact that the hydrate overcomes or reduces the spasm is no safeguard against its own poisonous effects. From what I know, I conclude that the hydrate of chloral can be given to the extent of overcoming the severest spasm; but if the dose be carried too far, with the determination of removing spasm at all risks, the success may easily be bought at the expense of a fatal parcotism from the remedy.

"Question 4.—Does the frequent administration of hydrate of chloral lessen or increase the danger of the administration? On this question I am forced to state that the frequent administration of chloral, though it may suggest greater confidence in it on the part of those who take it, increases the danger from an excessive dose. Hydrate of chloral differs from opium in this respect. Opium produces chronic symptoms peculiar to itself, but the dose may be steadily increased without immediate danger from the increase. Hydrate of chloral cannot be used in this accumulative way without danger. In a word, although a person may become habitnated to chloral, there is a limitation to the quantity to be taken safely, which limitation is not materially modified by persistence in the habit of taking, but rather the reverse."

After discussing three other questions relating to the symptoms and pathological changes incident to the habitual use of chloral hydrate, to the chemical tests for the hydrate in cases where it has caused death, and to the post-mortem distinctions in instances of chronic poisoning by hydrate of chloral and of poisoning by chloroform, Dr. Richardson closed by observing, that as the world was indebted to the Profession of Medicine for the benefits derivable from the hydrate of chloral, it behoved the members of the Profession to use their influence in protecting the public from an agent which, under improper use, might be turned from its good purpose to positive evil.

MEDICAL REPORT OF THE SMALL-POX AND VACCINATION HOSPITAL FOR 1870.

PRESENTED TO THE ANNUAL GENERAL COURT OF THE GOVERNORS. HELD ON FRIDAY, FEBRUARY 3, 1871.

THE year 1870 will be memorable in the Medical history of the ninetcenth century. It has been marked by an epidemio of small-pox of peculiar severity, which has found the population of small-pox of peculiar severity, which has found the population of this metropolis very inadequistly protected by vaccination, and therefore but little prepared for such a visitation. A much larger proportion of the population has been attacked by small-pox in the course of the existing epidemic than has ever occurred in the memory of the present generation. The epidemic of small-pox continues, and is extending. Each suc-ceding week it becomes more widely diffused, and the number coding week it becomes more widely diffused, and the number

of persons attacked is greater. Small-pox was epidemio in London during the whole of 1870. Judging from the monthly admissions of patients into the Small-pox Hospital, the epidemic may be assumed to have commenced in November, 1869. The rise and increase of the epidemic during at least a portion of its course will be shown by the monthly admissions into the Small-pox Hospital. For the last three or four months of the year, however, our admissions give no adequate idea of the prevalence of small-pox. Owing to the crowded state of our wards during the months of Owing to the crowded same of our wards during the monus of October. November, and December, large numbers of applicants have of necessity been refused admission, and, although additional Hospitals have been opened in various parts of the metropolis, and the accommodation for small-pox patients has been enormously increased, it has been found insufficient to meet the requirements of the epidemic.

The minimum of admissions into the Small-pox Hospital in 1869 was in the month of August, when they were only selected. At that time small-pox was sporadio only, and epidemic eight. At that time small-pox was sporadio only, and epidemic lit may serve, influence had not yet come into operation. It may serve, therefore, for a standard of comparison with the months that

Monthly Admissions of Patients into the Small-par and

-		1	accin	atio	n Hosp	ital.		· Fom		
1869:	August .			28	1870;	May				112
	September			31		June				112
	October.			34		July				113
	November			51		August				89
	December			52	i i	Septem				108
1870:	January.			79		October				144
	February			66		Novem			,	159
	March .			73		Decemb	er			178
	April .			83	1					

In the year 1870, 1316 patients were admitted into the Small-pox Hospital. Of these, 1285 were suffering from smallpox, and 31 from various forms of eruptive or febrile disease not small-pox, but assumed to be so, and an such assumption sent to the Small-pox Hospital. Of these 31 cases, 3 died. Of the 1285 cases of small-pox, 962, or 74° per cent. of the whole cases, had been vaccinated, and 322 were unvaccinated. whole clases, flat need vaccinated, and 22 were intractinated. One patient was said to have had small-pox previously, and that case recovered. Of the 962 vaccinated asses, 76 died, giving a mortality of 7°9 per cent.; whilst of the 322 unvaccinated cases, 124 died, being a mortality of 3°5 per cent. Six of the deaths-5 in the vaccinated and 1 in the unvaccinated class—were due to gangrene or some other form of superadded disease. Upwards of 30 patients admitted last year are still in the Hospital under treatment, and of these several are in great danger.

The general mortality for the year 1870 has been 15.4 per

The high death-rate of the last year was due in part to the unusual severity or malignancy of the disease, and in part to the number of children suffering from small-pox who have been received into the Hospital. Ten years since—namely, in 1860—7.37 per cent, only of the whole admissions were children under 10 years of age. As will be anticipated, the greater proportion of these were unvaccinated, and amongst them the mortality was 33.8 per cent. In 1870, more than 16 per cent. of the whole admissions were children under 10 years of age, and the mortality amongst those of them who were unvaccinated

was as high as 42 per cent.

Not a single fact has occurred within our experience at the Hospital during the past year to shake our confidence in vacci-nation when properly performed, or to detract in any degree from that high estimate of its value which many years experience in the wards of the Hospital and a close study of smallpox have led us to form. But vaccination is an operation of considerable delicacy, and requires much care in order to secure the advantageous results it is capable of imparting. failures of vaccination to prevent fatal small-pox which have occurred are almost all of them due to the careless and imper-

fect manner in which it has been practised.

In the present state of the population, revaccination is of scarcely less importance to the adult than is primary vaccination to the infant. A very large number of the adult population of this country are without adequate protection from vaccination, and are liable to take small-pox in its gravest and most deadly form. All persons who have not already had small-pox, and have been, or are likely to be, exposed to the infection of that disease, and all who have not several (at least four) good marks testifying to the character and efficiency of the primary vaccination ought to be revaccinated. Revaccination has proved itself to be a most important and efficient means of preventing small-pox. For upwards of thirty years, all the nurses and servants at the Small-pox Hospital who had not previously had small-pox have been revaccinated before entering on their respective duties, and in no one instance has it failed to preserve them from small-pox. We believe, therefore, that revaccination extensively practised, and with the same precaution to insure efficiency as ought to be observed in pri-mary vaccinations, will prove to be the most certain mode that could be adopted of checking the present epidemic of smalloox. 360 persons have been vaccinated at the Hospital during the year, and 580 charges of vaccine lymph have been supplied to the Medical Profession at home and abroad.

WILLIAM MUNK, M.D., F.S.A., Physician to the Hospital. J. F. MARSON, F.R.C.S., Surgeon to the Hospital.

PRELIMINARY COMMUNICATION CONCERNING THE FUNCTION OF THE PROSTATE GLAND.

By Dr. KRAUS,

Editor of the Fienna Medical Times,

I BELIEVE that I have discovered some essential points relating to the function of the prostate; but I will at present only make some preliminary statements that I think will be found to deserve attention.

- 1. The seminal fluid, as long as it remains within the testes, vesieles, and other seminal passages, is colourless and scentles being in appearance exactly like fresh honey while deposited in the comb; and in its reactions it is neutral.
 - 2. Only when it has quitted the passages and arrived in the

urethra does it acquire its white colour and its peculiar faint

3. During its passage through the prostatic portion of the urethra, the prostate empties out its fluid, colours the semen white, and confers upon it the faculty of coagulating when exposed to the air (alkaline reaction). Semen taken from the seminal vesicles does not congulate, but remains clear, colour-

less, and scentless.

4. The spermatozoa, in the absence of the prostatic fluid. cannot live in the mucous membrane of the uterus of man malia; but with its aid they may live for a long time in the

uterine mucus, often more than thirty-six hours.

I have conducted these experiments with the greatest care, and recommend their repetition, in order that the truth of my positions may be ascertained. From the above, the conclusion may be drawn that the prostatic fluid exercises an unlimited influence on the viability of the spermatozoa, sustaining it when endangered by the mucus secreted by the mucous membrane of the uterns

This is undoubtedly the case with those species of animals which possess a prostate, and I intend next to extend my investigations to those species which are destinte of this.

HISTORY OF THE FIRST FRENCH VOLUN-TEER AMBULANCE.

By ONE OF THE SURGEONS. Now Prisoner of War at Versailles.

(Continued from page 111.) On the 18th, early, as we were leaving Metz, heavy cannonading could be heard in the distance ahead of us; the battle of St. count or neart in the distance anisat of us; the battle of St. Privat had begun by daylight that morning, and the whole army—occupying the line of defence between Rezontille, Gravelotte, Armanvillers, and St. Privat, over a distance of eight miles—was engaged long ere we reached the field. The battle of St. Privat, called by the Prussiaus "St. Marie aux battle of St. Frivat, called by the Frussians "St. Marie aux Chênes," is, so to say, a continuation and end of the battle of Gravelotte, fought on the 16th, for there was fighting on the 17th as well, and the movement of the bulk of the army in a northerly direction was operated for no other purpose than to gain a better camp and a better line of defence. extent of territory over which the army was spread made it difficult for our ambulance to find a suitable point, so as to be because the first and a sulfidite point, so as to be consistent with a sulfidite point, so as to be consistent with a sulfidite point, and about two miles in the rear of the live village midway our head-quarters. We were here, though quite a distance from the battle-field, still what is generally termed use ambulance de première lique. Our flag was quickly displayed over the church, which we had taken charge of, and before our way to the constraint of the co infirmiers could be sont forward, wounded were beginning to arrive. The inhabitants of the village—who, fortunately, arrive. The inhabitants of the village—who, fortunately, had nearly all remained at home—assisted in getting together mattresses, straw, wine, and water, so that after the first dressings were attended to the peasants did the rest. A couple of barrels of wine stood on draught near the entrance of the churchyard, and every new-comer or passes—by was greated with a cupful. The slightly wounded and the wounded in the upper extremities were, in every case possible, sent to Mett on foot; the most severe cases only were kept in the village. The artillery fire from the enemy must have been terrible, judging from the great number of shell-wounds which came to us. I remember, among others, our infrainers bringing in a

judging from the great number of shell-wounds which came to us. I remember, among others, our infrasire bringing in a sergeant-major with both legs and the left arm shattered from the explosion of a single shell; the triple amputation, performed by M. Liegeois, at first promised to do well, but purulent in-fection set in, and the man died a month afterwards. A great fection set in, and the man died a month afterwards. A great number of shell-wounds of the scalp came under my observa-tion that day, and I have since learnt, from the ill-successes which attended these wounded, that the slightest shell-wound which attended these woulded, that the slightless shell-woulded of the scalp and the head must be regarded as very dangerous. Such men often leave the battle-field scarcely complaining of headache; they do well for some days, until suddenly high fever, delirium, and the whole train of symptoms of meningitis fever, delirium, and the whole train of symptoms or meninguished declare themselves. Many, also, of these wounded in Metz died of pyremia. It was two o'clock in the morning when we were able to lie down upon some straw, between the benches in the

church, to get a few hours' rest.

Inasmuch as we could only take time to make minutes of the more important cases, it is impossible to give an exact state-ment of the work done that day and night, but I am sure that fifteen of us attended to the dressing and first care of some 800 wounded-proof. I think, that a volunteer ambulance can do good, in spite of what "pure" military men may say to the

contrary The French admit that everything appertaining to their army is rotten to the core. Agreed! but I would add, that the branch in which the greatest changes and the greatest improvements are necessary is field Surgery. The means of assisting the wounded during and after a battle are crimi-nally insufficient; whether the battle-field remained in our hands or with the enemy, in every action around Metz wounded were neglected, and hundreds of them suffered and died from want of proper attention. The pangs of the wounded soldier—of one who has fought bravely for his country— should, and can, be greatly lessened by the Physician care; this is his duty. Precious few, however, of the 40,000 wounded in the Hospitals in and around Metz have had this consolation; on the contrary-and I repeat it-hundreds have died for want on the contrary—and I repeat it—bundreds have dood for want of proper organisation in the Medical department. And how ean it be otherwise, as long as the Intendance controls us? The Medical department in a large surmy in the field in too im-portant an item to be mixed with sundry others. The people of the United States, during the war of secession, had the moral courage and the good sense to separate the Medical from all the other departments of the army; and where, I ask, have ambulances and Hospitals—overything, in fact, appertaining to the sick and wounded—been better conducted than in that

The first step in the French army after peace will be to adopt the Prussian system. That this improvement must also bring about a change in the Medical department can scarcely be

The battle of St. Privat-styled by the Prussians the "Sadowa of the war," and in which the French losses amounted to from 18.000 to 20,000 in killed and wounded-lasted until long after dark. Canrobert's corps, on our extreme right, gave way about five o'clock in the afternoon, resulting in a gave way about five o'clock in the afternoon, resulting in a hasty retreat, and a consequent falling back of the whole army towards the outer forts of Metz. It is generally admitted, I believe, that Bazaino showed himself very capable, on this occasion, in foiling the enemy in his attempt to cut off our retreat. From that day (on August 18), the army, Metz, and everything in it, became effectually blockaded and cut off from all communication with the outer world.

(To be continued.)

REVIEWS.

Wonders of the Human Body. From the French of A. L. PILEUR, Doctor of Medicine. Illustrated by forty-five engravings by Leveillé. London: Blackie and Son. Pp. 256. Or late it seems to have become fashionable to publish books of "Wonders" translated from the French. We are, fortunately for curselves, not in a position to state accurately the value to be placed on all of them, but if we are to take M. the value to be placed on all of them, but if we are to take M. Flieur's volume as a sample, the greatest wonder appears to us to be, that there have been found a translator and publishers for such a book. The author shows symptoms of being an educated Frenchman; as to being a physiologist, his claims are not at all doubtful, for it is difficult to look over a page without detecting more than one error. The drawings are said to be by Leveillé, and on certain of them the name is to be seen imof Leveluc, and on occula to time the name is to be seen in-printed; but it is exceedingly difficult to reconcile such scratch-ings, we suppose we must call them, with the beautiful work-manship of the same gentleman elsewhere; we should be in-clined to call some of the performances before us villanous. The author tells us that the elementary anatomical structures

of the body are globules, fibres, tnbes, cells, and amorphous material; that De Blainville has called the colouring matter of the blood hematosine; that M. Longet (and no one else) has shown the existence of minute, and therefore harmless, proportions of sulpho-cyanide of potassium, one of the mest virulent poisons, in the saliva; and that the fibres of Remak are found in nerves of motion (nothing is said of any other situation). Nay, more, we are informed that "the organs of digestion are the mouth, the pharynx, the cosophagus, the stomach, the liver, and the pancreas." Why the viscus into which the two last and the pancreas." Why the viscus into which the two last pour their secretion, and where alone they can have any digestive action, is not included we are not told. But the translator also seems to have forgotten his role-if, indeed, he ever knew it; for in this part of the work we are told of a duct called that of "Stenon" -one which we do not readily recognized under such a cognomen, but at which we may nevertheless Next we are told that the liver secretes sugar; that the special use and purpose of the spleen are unknown—and, we presume, unguessed at.

There is nothing said of hydrochloric acid as existing in the stomach, only lactic acid, which is usually nowadays con-sidered an abnormal product. When absorption is mentioned, not a word is said of the discoveries of Graham as to dialysis, only something of Dutrochet's old experiments in comose. People would laugh at us were we to quote what is said of the functions of the great sympathetic nerve, but we are assured that "it is formed by the sensitive and motor filaments coming from the cranial nerves, or from the roots of the spinal nerves. from the cranian nerves, or from the roots of the spinan nerves. Let these examples suffice, for we are weary of making more. The original author has apparently followed French authorities and no other, and the translator seems to have followed the original author more alavishly still. If the book does no harm we shall be content; it is plain it will do little good.

First Medical and Surgical Report of the Boston City Hospital. Edited by J. NEISON BOBLAND, Physician, and DAVID W. CHEEVER, Surgeon. Boston: Published by the Board of Trustees. Pp. 688.

It is hardly possible to do justice to a volume like this in the short space at our disposal, for not only is it weighty with solid matter, but it is also overlaid with elaborate statistics. The Hospital is a new growth, having been opened only in 1864, but its usefulness has rapidly extended since that time, for during the five years the Hospital has existed the numbers

treated have enormously increased.

treated have enormously increased.

The volume begins with a paper on Perinephritic Abscess, by Dr. Bowditch, a subject which that author has made peculiarly Dr. Bowditch, a subject which that author has made peculiarly Ten cases his own, and on which he is an esteemed authority. Ten cases are here recorded, seven not having before been made public, and four of them occurring in this Hospital. The two conclusions he drew in former articles on the subject were, that with perinephritic abscess, left to itself, there was great danger of chest complication, and, consequently, that the abscess should be tapped before even there was any appearance of pointing

—as soon, in fact, as the diagnosis was made clear. These
whest complications are apt to be overlooked if the whole the control of the owner of the control of the cont

special is published a considered of the Joints, from the pen of Dr. D. W. Cheever. He says the large joints have been excised twenty-sight times in this Hospital, the clow ten times, the hip cleven times, the knee six times, and the wrist once. The shoulder and ankle have not been ten times, the hip cleven times, the knee six times, and the wrist once. The shoulder and ankle have not been axcised. The total mortality was 43 per cent. In ex-cising the wrist, a longitudinal incision was made on the dorsal and another on the palmar aspect of the hand. The patient subsequently died of uremia. Of excisions of the hip, two occurred in adults, nine in children; the adults died, and two only of the children did very well. The cases of the and two only of the children did very well. The cases of the congratulate the Boston Surgeons the the Archer can we congratulate the Boston Surgeons the condition of the congratulate the Boston Surgeons on their excisions of an knee. In each case the operation was for disease, and the cases must either have been badly selected, or the Surgeons very un-fortunate, for only three recovered "with more or less useful limbs." It is a well-ascertained fact that every case of kneejoint disease is not fit for excision; and, when the prospect is bad, it is better to amputate as low down on the thigh as possible.

An exceedingly interesting article on Cases of Pneumonia, by Dr. J. N. Borland, comes next—190, in all, are tabulated, and the results given. As usual in such tables, a certain amount of the information given is not very valuable, but other portions of it are. The duration, for instance, of the disease he makes out to be, on an average, eleven days before entering the Hospital, and twenty-three and a half within its walls, the com-Hospital, and twenty-three and a half within its walls, the complicated cases lasting rather longer. The list of complications, given seems rather absurd, especially as we note only a single case where Bright's disease existed, and only two with cardiac mischiefs, although both are potent agents in inducing the disease. As to temperature, where noted, the author given nothing new. The treatment adopted was generally restorative; milk was given all ibitions, beef-tea and white wime whey at frequent intervals. A jacket poultie was sometimes employed, and coccasionally winnum entimoniale was given, in small does

frequently repeated. Of the uncomplicated cases, ninety-seven were discharged well, two relieved, and ten died.

Article IV. deals with Displacement of the Upper Jaw. Its author is Dr. Cheever. This really means dealing with a naso-pharyngeal polypus which had caused protrusion of the jaw-bone, and interfered with deglutition. The peculiarity of the operative procedure, which was twice rendered necessary, was the retention of the upper jaw-bone. It was only temporarily bent down in front, the antrum was exposed, and the tumour removed. The patient did well. Both Langenbeck and Ollio have tried similar plans, and a case is here recorded wherein Dr. Peaslee, of New York, performed a like operation on both jaws at the same time.

(To be continued)

NEW BOOKS, WITH SHORT CRITIQUES.

• Ought the Contogious Diseases Acts to be Repealed?
• • This anonymous little pumphlet—all inartistic from a literary point of view, but laden with Christian charity—seems likely to supply, in a certain degree, an antidote to the mischievous nonsense talked and written by a certain section of the opponents of these Acts. We are perfectly well aware that these Acts are conscientiously opposed by men and women who, in any interests but those of what they conceive morality, would object to find themselves allied with utter unbelievers; and it may be well for them to know, as this little pamphlet teaches, that God-fearing men and women may heartily support Acts which they had supposed to women may near my support to the subversive of morality. Let any unprejudiced person visit a Henrital under these Acts, and they will see that in the calm regularity, which can be enforced if necessary, there exists a more suitable atmosphere for the work of the bible-woman or missionary than in the pandemoniums frequented by the perverse opponents of these Acts, and where they hold forth on woman's rights and the constitution of England.

Alleged Increase of Lunacy. By C. LOCKHART ROBERTSON. the entire subject is treated with ability, the result being to show that insanity is not on the increase.

GENERAL CORRESPONDENCE.

DR. BURDON - SANDERSON ON SPECTRUM

ANALYSIS.

LETTER FROM MR. JABEZ HOGG.

[To the Editor of the Medical Times and Gazette,] SIR,-Dr. Sanderson's lecture, in this week's Medical Times and Gazette, page 124, contains a somewhat puzzling statement with regard to the value of spectrum analysis, and one which can scarcely be allowed to be passed over in silence. He says: "The application of the spectroscope to the examination of absorption spectra—i.e., the spectra which are produced when the light which is admitted into the spectroscope has passed through coloured transparent liquids—is neither more nor less than a method of analysing colour. The optical facts which it enables us to estimate by precise measurement are the same of which we judge by the eye alone, the only difference being that our judgment of them is more accurate. In this regard that our judgment of them is more accurate. In this regard the spectroscope slands in the same position with other instru-tion of the spectroscope shade in the same position with other instru-faculty, but only enable us to use those we already possess to greater advantage. "In my mind, such a statement tends to delivrone the spectroscope from that high position assigned to it by such investigations as Stokes, Hopps, Sorby, Thudichum, etc., and I doubt much if this can be the intention of Pro-fessor Sanderson. If it is, then I cannot help saying that I believe he does injustice to an instrument which, beyond the shadow of a doubt, is of the highest value in the physical and chemical sciences—not as a means of "estimating the precise measurement of colour" only, but as a method of qualitative measurement of colour only, but as a method of qualitative analysis—since it is founded on the power possessed by many substances of developing peculiar bright lines in the spectrum flame; and, doubtless, the absorption bands observed in the name; and, doubtees, the areorption bands observed in the spectrum of both vegetable and animal (coloured and un-coloured) fluids indicate the most delicate changes in their chemical constituents, and, when we shall have been able

to read them rightly, must prove of incalculable service.

The spectroscope used simply as a means of more accurately

snalysing colour, could never have entered into Dr. Thudichun's mind when working with it to assist in determining the obemistry of the normal and pathological ingredients of the animal body and "the chemical identification of disease;" neither could colour have had much to do with the discovery by gives a most doubtful indication of colour, place it before the alit of the spectroscope, and the well-known absorption bands of reduced limentia rate at one seen. To a certainty we know blood is contained in such a specimen of nrine. With the micro-spectroscope we recognise the characteristic absorption bands when a single drief blood or results, have been a supposed and submitted to examination. The colour to the unaided eye of this speck is of no value whatever—even with the highest power of the microscope is zearcely recognisable—and, therefore, until the spectroscope is brought into requisition, the investigation was of no service to science. Indeed, in such a the question. The lens of a wild rabbit kept for a time in dilute acetic acid, taken out and dried, and burnt in the flame of a Bansen jot, produced the brightest of sodium bands and the solitary band of thallium. Here, again, we deal with a perfectly colouries substance. Further, take two solutions totally unplus. It could not have been supposed that non skilled in the use of the spectroscope should have been able to any that both other ordinary known means, would not have been supposed that one skilled in the use of the spectroscope abould have been able to any that both other ordinary known means, would not have been proved, however, in the case of tauracine. Recognition by colour, or probably obter ordinary known means, would not have been able to any that both other certainty. In the same and iridium; and the merest tyro in science can detect the one three-milliont part of a milligerance of sodium with the atmost certainty.

February 6.

I am, &c., JABEZ HOGG.

"A FEVER DEN."

(To the Editor of the Medical Times and Gasette.)
Stm.—From a paragraph in your last impression I learn that
Fleet-row, a court in the Holborn District occupied exclusively
by Italians, is, on the finding of a coroner's inquest conducted
by Dr. Hardwicke, stigmatised as above. A more inapprepriate and unmerited epithet could not be applied to it, except
mo other eighteen houses in the district so constantly free from
continued fever and all other preventible diseases as this court.

The case under investigation was one of no nacommon occurrence—that of an infant, aged 3 months, overlaid in bed by the man or woman who kept its mother to either sit as a model for artists, or to dance and play the tambourine to a bagpipe-blower in the public streets. The late Mr. Wakley used to assign that true cause of death when he classed them as "Saturday night cases." Now, the practice with. I regret to say, a Medical coroner is, to impress upon juriese "that the other control of the condenserous to the unfortunate companis," and then follows the verifiet of "Desth by sufficient from want of fresh air." The jury proceed to draw up requisitions to the local authorities, the Medical Officer of Health, and the Impactor of Nuisances, drawing attention to the imaginary overcrowling, the disgreeded state of the house, etc., not one of which requi-

the disgraceful state of the nones, etc., nor one or wmen requisitions ever comes into the hands of the parties named.

As regards the house in question—No. 7, Effect-row, CyraAs regards the house in question—No. 7, Effect-row, Cyraground floor has a window, and a door opening into it from
the front, and another window and door from the back yard.
This room was occupied by a man, his wife, and two children
under 10 years of age, and the servant girl with her infant,
that was brought up by hand, in order that its mother might
follow her out-door avocations. The cubic space of the room
is such that each adult would have about 490 feet, and each
child half that amount. The two rooms above are smaller,
in one instance by a man and his wife, with an infant
in one instance.

Not knowing who Mr. Cole was, I wrote to ask Mr. Norton the number of the houses, and whether his evidence was correctly given in the report you published. I append his reply, from which it appears that his evidence related to an Italian lodging-house, which is really two houses knocked into one viz., I and 2. Eyre-court—having a common dising-hall or

kitchen on the ground floor. My inspector has counted thirtyfive or forty persons asleep a midnight in these two house; so that probably Mr. Norton's informant did not oraggerate in saying that fifty persons had slept in the two houses. But what this hearsay evidence about a different class of house, in a different court, had to do with the premises sub judies, I am unable to state, unless it was to give confidence to the jurors in drawing on their requisitions for the use and benefit of—

ahall say—the "penny-a-liner."

On the best authority, I do know that this so-called judicial investigation has nearly been the means of depriving many of the Italians of their employment as models in the art school of

the Kensington Museum.

the konsington aussum.

A few months ago an equally, if not more, unfounded verdict was recorded by the same coroner as to an infant which was overlaid by the mother in Baddwin s-gardons. The mother and three small children occupied a good-sized and well-and three small children occupied a good-sized and well-and three small children occupied as good-sized and three small children occupied as the small children occupied as good-sized and three small children occupied as good-sized and well-and three small children occupied and three small children occupied as good-sized and well-and three small children occupied and three small children occupied as good-sized and

The coroner's court is a venerable institution, and may do a little good, but you will, perhaps, agree with me that nothing but mischief can result to the courter-is, the coroner's—and the community from their propounding nature and exaggreated variities. This is the day of commissions of inquiry, and I would respectfully suggest to yourself or to one of your Medical contemporaries that an inquiry into the constitution and procedure of the coroner's court would do mend good.

I am, &c.,
THE MEDICAL OFFICER OF HEALTH FOR HOLBORN.
February 8.

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

TUESDAY, JANUARY 24, 1871.

DR. BURROWS, F.R.S., President, in the Chair.

A PAPER by Mr. JOHN G. PRENCH was read "On the Probable Cause of the Fost-mortem Muscular Contractions in Cholera, and on the Philosophical Treatment of that Disease." The author believes that a physical law of nature, discovered by Dr. Marshall Hall, accounts for the post-mortem contractions in some choices patients, and the properties of the properti

A paper by Dr. Robert Lee was read "On Cases of Hysteria with Sacezing." This paper contained an account of two cases of hysteria in which sacezing fits formed a prominent symptom. The author did not profess to give any explanation of the

ocurrenc

Apaper by Dr. E. Mexrow was read "On Suggestions in Support of a Rational System of Therapeutics." In a former paper Dr. Meryon showed that every ganglionic centre of the sympathetic system of nerves has three distinct elements, over and above the ganglionic cells, and that each element or nervecial has its own special attribute; the ensory fitters, to impart without operating immediately on its bloodvessels; the motor bires, to incite vascular action and secretion in response to the vital sense; and the grey fibres of Remak, to restrain and regulate the stream of nutrinest conveyed by the arterioles into the cell-territory for secretion or for assimilation. In the rilliance of the stream of nutrinest conveyed by the arterioles into the cell-territory for secretion or for assimilation. In the rilliand for the purpose of interpreting the operation of many medicinal agents. For instance, the fact shown by M. Claude Bernard, that section of the fibres of Remak induces increased vascularity and clevation of temperature in the parts to which those sympathetic nerves are supplied, has its pathological counterpart in inflammation, in well-to or Remak, blood reguestly such as the proposal of incident counterpart in inflammation, in well-to or Remak, blood reguestly such as a supplied, but the payment of the proposal of the payment of the payment of the proposal of the proposa

effect. By increasing the inhibitory influence of the sympa-thetic fibres, it diminishes the calibre of vessels, shuts out blood corpuscles from the capillaries, and even the blood-plasma itself, and so restrains many forms of hemorrhage. Dr. Mervon then goes ou to show that, just as the localised ganglionic centres of innervation are suggestive of independent action, and localised, accelerated, or retarded circulation is an obvious indication that the vascular function of each individual gland is regulated by such ganglionic centre, so have we medicinal agents which localise their power on special parts, either by exciting or restraining their functions. This proposition is illustrated by showing the manner in which drugs having antagonistic actions exert their influence on the different individual organs. Seeing that most pathological conditions are but extensions or exaggerations of physiological actions, and the effects of derangement of the operations of the vaso-motor perves; seeing, moreover that we have therapeutical agents which stimulate, or assist, or supplement the attributes of the vaso-motor nerves, on which the healthy functions of all organs vasor-motor nerves, on which the nearthy functions of all organs depend, Dr. Meryon concludes, that in the knowledge and due appreciation of such aids we have the foundation of a rational and scientific system of therapeutics.

CLINICAL SOCIETY OF LONDON.

FRIDAY, JANUARY 27.

Dr. W. W. Gull. President, in the Chair.

THE PRESIDENT delivered an Inaugural Address (which we published last week) to a large number of members, which occupied thirty-five minutes, and was listened to and received

with marked attention and approval.

Dr. Silver read an Account of certain Cases of Rheamatism treated with Veratrum Viride. The drug was given in two-minim doses every honr, ten-minim doses, which were first given, causing sickness and pain in the epigastrium. Its effects were noticed chiefly with regard to two particulars: reduction of temperature, and diminution of pain. The temperature charts were laid before the meeting, and the author was of opinion that they testified to an abatement of bodily heat as soon as the drug-influence had time to manifest itself; but the cases being only six in number, and his opportunities for further observations being meanwhile in abeyance, he fortified his position by the experience of Biermer, who had used the drug largely in the treatment of crupous pneumonis, and in whose hands it had acted powerfully in inducing defervescence. In the cases recorded a speedy diminntion, in certain of them a complete abolition, of pain was brought about within forty-eight hours after giving the drug. As to the other objects to be aimed at in treating acute rheumatism, specially the removal of any materies morbi from the system, the facts recorded did not enable the author to speak; except that with its use the urine speedily became clear. except that with its use the utine specially occame cicar. As to the obvision of heart-complications, it was pointed out that these depended rather on the period of the disease than the withhelding of any special mode of treatment, patients ordi-narily giving evidence of the complication during the first week of the disease, or at the period of relapse. For reasons-hinted at above, the paper could only be considered as a frag-ment, but might be useful to those who careed to pursue the subject further.

Dr. CLAPTON commenced the discussion by remarking that he had found the stomach very intolerent of veratrum viride. It was well known that the North-American Indians used it in the ceremony of choosing their chiefs, because it was thought that the individual who resisted the irritating effects of the drug most successfully must be the best man. Hence, according to his experience, it was necessary to combine the veratrum with opinm or some other sedative, so that it was difficult to know which preparation procured relief. He believed the effects of veratrum were somewhat allied to those of colchicum and digi-

talia

Dr. MURCHISON had no experience of veratrum in rheumatism. He had, however, employed it experimentally in pyrexia, and entirely subscribed to Dr. Silver's remarks as to the remarkable effects produced on pulse and temperature, as in cases of scarlet fever, pnenmonia, and typhus treated by the drug; lowering, both of pulse and temperature, were markedly observed. He did not, however, think that it shortened the duration of disease, and discontinued its use, or rather did not adopt it, because rather alarming symptoms approaching to sympose were induced (without any irritation of the stomach), requiring the use of stimulants. The drug, however, was worthy of further trials, and would, he hoped, receive further attention.

Dr. Thorowooon hoped that the anthor of the paper would

have included some experiences of aconito as compared with veratrum in the prevention of pericarditis.

Mr. Castra asked if exact notes had been taken as to fre-quency and force of pulse—say, half an hour after the drug was taken-and, if any change was observed, how long that change continued.

The President asked, if any negative cases occurred, in what way the failure consisted -- whether as to pulse and temperature.

Mr. Kesteven remarked that, in veterinary practice, a decrease of temperature always followed the tuking of any

Dr. C. T. WILLIAMS asked if the drug produced any effect on the urine or the alvine evacuations.

After some remarks from Mr. Barwell as to the treatment

of inflamed joints, Dr. Silves replied that these were all cases treated as in-

patients, but that he had seen the most marked effects as to the success or failure of the drug among out-patients. He was glad to have the support of so excellent an authority as Dr. Murchison as to the effect of veratrum in redneing temperature. He could give no information to Dr. Thorowgood as to the relative value of aconite and veratrum. From the exceedingly small doses given, there was at first no derangement of stomach, and no direct effects on the pulse, both becoming gradually affected. The only exact information as to the secretions was gleaned The only cate: information as of the secretains was greated from America, where it appears that in some cases the urine was notably increased by it. The author added that since writing the paper be had found that veratrine had been used for acute rheumatism in Trousseau's wards, and was greatly commended by Bouchut. Arran land also confirmed its greaty commenced by bouchit. Arran had also confirmed its very remarkable powers in lowering the temperature, the pulse, and respiration. From the physiological inquiries of Kölliker and Pelikan, it seemed probable that veratrum acted primarily and directly upon the heart, but he had rested his views on its remedial action alone. The author greatly regretted that the number of cases at his disposal had not permitted him to con-

tribute more than a fragment to the history of the drug.

Mr. They an briefly related the particulars of four cases of unusually Large Calculi, and stated that there were four points of interest:—(1) that the calculi were large; (2) that the method adopted for their extraction was not in accordance with the rules laid down and accepted by Surgeons; (3) that the patients recovered; and (4) that there was no incontinence of urine in any case. Surgeons usually extracted calculi by means of a limited internal incision, and a subsequent so-called rocess of dilatation, which was in reality complete rupture of process of dilatation, which was in reality computer rupture or the prostate and its capsule. This method was opposed to the teachings of anatomy, and was usually followed by one of three bad results—death, impotence, or incontinence of nrine. If, on the contrary, a free incision be made into the bladder, the rate of mortality will be lessened, and such sequences as impotence or incontinence of urine be abolished. One of the reasons which deterred Surgeons from making a free internal incision was the fear of infiltration of urine. Now, such an Now, such un incision was the rear of innitration of urine. Now, such an event, after lithotomy, was a physical impossibility. Infiltration of urine could only occur when the fluid was pent up and was unable to escape. After lithotomy, the urine passed freely, either by the wound or per urcthram. Now, as there was no danger of infiltration of urine from making a free incision, and as the extraction of a calculus without the rupture or incision of the prostate was not possible, it followed ripture or inseason of the prosence was not possible, it rollowed that it was preferable to extract a stone by cutting it out rather than by tearing. Mr. Teevan stated that after he habit with the forceps, grasped the calculus, he was in the habit of introducing a probe-pointed bistoury, and cutting downwards and outwards sufficiently freely to enable the stone to glide out of the bladder without the slightest traction being exerted. He brought forward the above cases to show that the method was unattended with danger, and that the patients were in all respects botter off by being treated with free internal incisions rather than by indefinite lacerations of important structures.

Mr. Dn Moroan said every Surgeon would corroborate the riew that it was better to cut than to tear the prostate. He thought there was a difference between the mode suggested and that adopted—that is to say, between making a single large incision in the prestate, and cutting it in various directions. The multiple incisions might be advisable with a large stone, ordinarily they were not so.

Mr. Terran raid be made a mederate incision in the prostate,

laid hold of the stone, and then cut in various directions until it was released. There was no such thing as dilating the prostate; there was laceration morely, and the laceration some-times extended even to the ureter.

Mr. Barwell said that in cutting the prostate they had to try to avoid cutting the fascia; if that were done, the only chance for the patient was to make the external opening very large. He had nover felt anything like a tear. Mr. Teevan, in reply, said no one could tell whether the

prostate was cut completely through or not. He believed there was no such thing as infiltration of urine after lithotomy; the external incision did not matter. His subsequent excisions must have far exceeded the prostate, and that must be always the case with children. Pathological specimens showed that some patients lived long after tearing the capsule of the prostate. Soon after an operation the cut surfaces would be covered with lymph.

OBITUARY.

SHERIDAN MUSPRATT, M.D., F.R.S.E.

THIS well-known chemist died on the 3rd inst. in his 51st year. He was a man of good abilities and suggestions; somewhat too fussy and demonstrative, but, not withstanding a somewhat over-estimation of himself, he did good service in his time, especially in relation to his discovery of the virtues of a mineral spring. In addition to his qualifications above stated, he was a Member of the Royal Irish Academy, and Membre de la Société D'Encouragement, etc., etc.

MEDICAL NEWS.

ROYAL COLLEGE OF SURGEONS OF ENGLAND .- The ROYAL COLLEGE OF SURGEONS OF ENGLAND.—The following gentlemen, having undergone the necessary examinations for the diploma, were admitted Members of the College at a special meeting of the Court of Examiners, on the 8th inst., viz. :-

Chewall, William, M.D. St. Andrews and L.S.A., Horley, Surrey, of the Middlesex Hospital. Liebreich, Friedrich Richard, M.D. Berlin, Cork-street, Burlington-gardens.

APOTHECARIES' HALL. — The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday, February 2, 1871 :-

Green, Charles Josephus, Sunningdale Berks. Turner, William Mulholland, King's-road, Chelsea.

The following gentleman also on the same day passed his First Professional Examination:—

Parkhouse, Henry, Westminster Hospital

THE APOTHECARIES' HALL, DUBLIN .- At the Quarterly Examinations, which commenced on January 2, 1871, at the Apothecaries' Hall, the following candidates obtained the

O'Connor, James. Revell, John. Scagraves, Charles. Smith, Michael. Spain, Body.

Certificate in Arts :-Hergia, Daniel.
Emerson, Thomas Gilbert.
Kenny, Michael Joseph.
Leggett, (harlotte Maria Ianthée.
McCabe, John.
Murphy, James. Bergia, Daniel.

At the same time the following gentlemen obtained the Licence to Practise:-

Barry, Richard John. Boland, Christopher Themas. Halahan, John W. Kidd, Henry. McEnter, William Charles.

APPOINTMENTS.

The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

COWELL, GEORGE, F.R.C.S.—Assistant-Surgeon to the Royal Westminster Ophthalmic Hospital.

SHITH, R. SHINGLETON, M.D. Lond., B.Sc., etc.—House-Surgeon to the Bristol Royal Indirnary, vice Dr. Ludlow, appointed Assistant-Physician.

MILITARY APPOINTMENTS. MEDICAL DELITER IN THE APPOINTMENTS.

BEFORE A PROPERTY TO A PROPERTY APPOINTMENT OF THE RESERVE TO A PROPERTY TO A PROPERTY TO A PROPERTY TO A PROPERTY APPOINTMENT APPOINTME RIPLE BRIGADE.—Staff Assistant-Surgeon Alexander Minty, M.B., to be Assistant-Surgeon, vice Julius Wiles, promoted on the Staff. 6711 Foor.—Francis John Shortt, to be Buggeon, vice George Edwin Gains, deceased.

45TH FOOT.—Staff Assistant-Surgeon Frederic William Lloyd Hodder, M.B., to be Assistant-Surgeon, vice Thomas Wood, M.D., appointed to the Staff.

467H FOOT.—William Henry Price, to be Surgeon, vice Robert Specidy, deceased.

Galton.—On February 1, at Thicket-road, Upper Norwood, the wife of John H. Galton, M.D. Lond., of a daughter. Honner-Whiohr.—On February 7, at Clarence Lawn, Dover, the wife of Jos. C. Horneby-Wright, M.D., Surgeon 2nd Battalion 17th Regiment, of a son

of a son.

OHITTH: —On February 7, at Oxford, the wife of John Forbes Ogilvie,
M.D., Egyptian Medical Server. However, the comwind of Thomas Hawker Thanes, Harrietta-efreet, Cavendish-square, the
wife of Thomas Hawker Thanes, M.D., of a son.
TRUMPON.—On February 6, at Ashford, Kont, the wife of Edward White
Feld Thurston, Seageon, of a con.

VOODMAN.—On February 8, at Queen-street, Deal, the wife of Frederick.
Woodman, M.D., of a daughter.

BROOKING—PUDDICOMBR.—On February 2, at St. Jude's, Wolverhampton, Charles H. Brooking, M.D., of Brixham, Devon, to Laura, daughter of the late Alfred Puddicombe, Esq., of Mortonhampstead, Devon.

the late Airce Fradicionies, Es., of Martenhampsteral, Deven.

Lanne-Vonez.—On January Ji, at St. Peter, Paddington, Arthur

O. H. Harris, L.R.C.P. Lond, M.R.C.S.R., to Mary, eldest daughter of

Edward Vigers, Es., of Tavistock Lodge, Upper Westbourne-park.

Hivzs.—Vesar.—On Peterusy 7, at St. Swithin Control

Landon, Control Control Control

Landon, London, Londo

DEATHS.

Boort, Masy, widow of Francis Boott, M.D., at her residence, 48, Gower-street, on February 6, aged 76. Musfratt, Dr., at the Hollies, West Derby, Liverpool, on February 3,

ages 35.

Panty, Alverta, B., the lost curviving chaughter of the late Charles D.
Panty, Alb., of genome-skill Bash, In London, on Erbernay R.

Panty, M.D., of genome-skill Bash, In London, on Erbernay R.

Pimbury-square, E.C., at 17, Connobury-square, on February 7.

Richton, Robert Krawerus, Sturgeon, of 11, Bermondery-square, one
February 5, in the 59th year of his age.

WERNER, ERST, Esq., son of Dr. Ernst Werner, of Darmstadt, at Camberwell, on February 4, aged 24.

Whitfield, Charles Tohlins, Eq., late Surgeon Royal Artillery, at Brighton, on February 5, agod 81.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession. mane, and the day or esceion (as far as known) are stated in succession of ALBWICE USON, NORTHUMBELAND—Medical Officer and Public Vaccinator for the Embledon District. Candidates must be duly qualified in accord-ance with the requirements of the Poor-law Board. Applications and testimonials to J. A. Wilson, Glerk, Alawick, on or before Pebruary 22. Election on the 84th.

Liection on the 24th.

Bittoric Gestal Hostriat.—House-Surgeon; must be a Member of the
College of Surgeons of London, Edinburgh, Glasgow, or Dublin, and be
L.S.A. London or Dublin. Applications and testimonials to the Secretary on or before February 34.

tary on or before February 54.

Divor AND EXTER HOSETTAL—House-Surgeon. Applications and testimonisals to E. Force, Eag., at the Hospital.

DOBLETY TITON.—Medical Officer for justicit No. 2. Conditions must be dealy qualified in accordance with the General Process that the rose head by qualified in accordance with the Group Weedles, Clerk to the Guardiana, on or before February 15. Election on the 16th.

HoseTIAL FOR WORES, SOUD-SQUARE, W.—Physician; must be a Graduate in Medicine of some recognised University, and be a Member of the Horyal College of Physicians of London.

Old 15. In the Medical Process of the State of t

KENT COUNTY OPHTHALNIC HOSTITAL.—Consulting Surgeon; must be duly qualified. Applications and testimonials to R. Pearson, Esq., Secretary, Maidstone, on or before March 18.

LANCASTEE DISPERSANT.—House-Surgeon; must have both Medical and Surgical qualifications. Applications and testimonials to the President on or before February 16.

on or before February 16.

POPLAR AND STEPRET SIGN ASPLEM DISTRICT.—Resident Medical Bupperintendent for the New Asylum at Bronsley, Middlesex, Candidates, mited duly qualified and registered. Applications to be made on print and
forms, which may be obtained of Mr. M. Foshet, Manager's OptiStepper Vision Workhouse, Bronsley, E., or or before Mourary 24.

forms, which may be stepped planed workhouse, Bromley, E., on or before retourny as stepped planed Workhouse, Bromley, E., on or before retourny as Stepped planed Science Courty Hoserata—Honorary Medical Officer. Applying the step of the step of

9T. Mary's Hospital and Dispersary for Worry and Children, Quay-street, Manguageme.—Visiting Medical Officer; must have both Medical and Surgical qualifications, and be registered. Applications and fer-timensial to John Starber, Eug., Secretary, 41, John Dalton-street, Manehoster, on or before February 17. Ambleations

Manchoster, on or before February II.

ST. Trouxa's Hourita.—Avaidant—Suppon; must be a Fellow of the Royal College of Surgeons of England. Applications and testimonals between fine even to the Transacra, to the Other, 18, 85. Trounta's Houritane even to the Caracara, to the Other, 18, 85. Trounta's Houritane. Headshot Assistant-Surgeon; must be a Fellow of the Royal College of Surgeons of England. Applications and testimonials to be sent, under cover to the Trounter, to the Office, 18, 81. Trounta's Houritane. STRAND UNON.—District Medical Officer for the District O St. Martin-in-the-Fields. Candidates must be duly qualified and registered. Appli-cations and testimonists to the Guardians of the Strand Union, 6, Bowstreet, W.C., on or before February 13.

UNIVERSITY COLLEGE HOSPITAL - Assistant Obstetric Physician. Applications and testimonials to John Robson, B.A., Secretary to the Council, on or before February 22.

POOR-LAW MEDICAL SERVICE.

. The area of each district is stated in acres. The population is emputed according to the last census.

RESIGNATIONS.

Banbury Union.—Mr. Thomas Harris has resigned the Chipping Warden District; area, 8580; population, 1538; salary, £43 2s. per annum. North Witchford Union.—The Second District is vacant; area, 10,628; population, 2712; salary, 440 per annum.
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District. Bornere and Claydon Union.—Frederick Gull, M.R.C.S. Eng., L.S.A., to the Coddenham District. Guideorough Union.—Alexander Cameron, M.D. and M.C. Univ. Glas., to the Danby District.

Union .- James Roberts, M.R.C.S. Eng., L.S.A., to the Melton Mowbray Union,-Melton Mowbray District.

McRon Mowbray District.

Skirlaugh Union.—Robert V. Ash, L.R.C.P. Lond., M.R.C.S. Eag.,
L.S.A. Lond., M.B. Univ. Aber., to the Skirlaugh District and the Work-

South Metropolitan School District.—John Wilton, M.R.C.S.E., L.S.A., L.R.C.P. Edin, to the School at Sutton.

THE Poor-law Board has sanctioned the expenditure of £350 by the Paddington guardians for the erection of an iron Hospital for the reception of small-pox cases in that parish.

THE Metropolitan Board of Works have given permission to the Native Guano Company to erect works at Cross-

ness for the utilisation of sewage. Mrs. Gladstone, the wife of the Premier, offers two houses at Clapton to be used temporarily as a Small-pox

Convalescent Home.

THE British Orphan Asylum, Slough, has received no less than three donations of £1000 each from an anonymous donor with the initials R. W. T.

DR. LIEBBEICH.—It will be seen in another page that this distinguished Ophthalmologist was examined and admitted a Member of the Royal College of Surgrons on Wednesday last, preparatory, it is stated, to being invited to the Ophthalmic chair at St. Thomas's Hospital.

MUNIFICENT SUPPORT .- " S. W. Y." has for the third time kindly sent £1000 to the exchequer of the Great Northern Hospital.

THE MIDDLESEX HOSPITAL .- This institution has just received a donation of £1000 from "D. T. S.," being the third sum of a similar amount for which the funds of the Hospital are indebted to their anonymous benefactor.

BELFAST ROYAL MEDICAL BENEVOLENT FUND. DEFERRED ENVAL MEDICAL DESERVOLENT FUND.—
The annual meeting was held last week. Dr. Browne, R.N.,
was re-elected treasurer, and Dr. Stewart honorary secretary.
The Fund is in a satisfactory state, but it is intended to increase
its amount by some one of the Council or members calling upon those gentlemen not connected with the Fund, to solicit their

aid and co-operation.

THE death of William Keith, M.D., of Aberdeen, took place at Edinburgh on February 6, of apoplexy. He was admitted a Member of the Royal College of Surgeons of Edinburgh in 1822, and was appointed a Surgeon of the Aber-Edinourgn in 1822, and was appointed a Surgeon of the Acer-deen Infirmary in 1843, retiring from the Senior Surgeonship of that institution in June last. He practised Surgery very successfully for over forty years, and was widely known throughout the North of Scotland as a most skillful and successful operator.

MUNIFICENT DONATION .- At the last weekly board of the General Hospital, Birmingham, the chairman announced that a cheque for £500 had been received from Messrs. E. and A. Ludlow, which they hoped would cover the expenses ca-tailed npon the Hospital by the late calamitous accident at their works. Messra. Ludlow had also sent a cheque for £50 as a donation to the "Temporary Building Fund."

QUESTION IN VACCINATION LAW. - An important question was raised on Monday last at Bridgwater, in connexion with the objection which some parents still entertain to having their children vaccinated. The magistrates ordered the fathers, who appeared before them in answer to summonses, to bring their children into Court, which they declined to do, on the ground that they were not the custodisns of the children, but that the mothers were, up to 7 years of age. The Bench adjourned the case till Monday next, for the production of the children, but it was intimated that they would not be forth-

SMALL-POX IN LARGE ESTABLISHMENTS .- In several of our large establishments the assistants have been revaccinated, in order to avoid the possibility of eatching the disease. This simple fact has given rise to an unfair and cruel report—that the disease itself is prevalent in several large honses at the West-end of London. Inquiries have been made iuto the truth of the assertion, and the result has shown that such a scandalous report is baseless. Several well-known houses have been visited, and it is found that, although hundreds of the young people employed have been revaccinated, there is not a single case of small-pox among them. It is necessary to make this fact known, because many regular customers at these establishments may, not knowing the rumour to be groundless, be debarred by fear from continuing their patronage, and almost inconceivable losses may accrue to the proprietors in consequence.

SUDDEN DEATH .- On the 1st inst., Dr. Bunny, SUDDEN DEATH.—On the 1st inst., Dr. Bunny, Coroner for Newbury, Berkshire, held an inquest on the body of Mr. S. Chesterman, who for many years had an extensive practice as a Surgeon at Banbury, but had latterly retrief from the Profession. Last week he arrived on a visit to his sonsin-law, Messrs. B, and J. C. Pinnifer, solicitors, in Newbury. While sitting by himself in an armchair in the dining-room, he While sitting by himself in an armemir in the uning-room, it anddenly expired, and was found almost immediately afterwards by Mr. Cockburn Pinnifer in an easy attitude. He had apparently died without the least struggle. The jury found that death arose from heart disease. Mr. Chesterman was 67 years of age, and much esteemed in Banbury and its neighbourhood.

SOCIETY FOR RELIEF OF WIDOWS AND ORPHANS OF ciety, held January 11, £1078 10s. was voted in various sums cuery, nest January 11, 210/3 10s, was voted in various sums to fifty-six vidows, and £242 to fifty-bidner for the half-year beginning January 1. A sum of £22 was granted to one widow and two children as extra grants from the Copeland Fund. In the absence of the President, Dr. Pitman, V.P., rund. In the absence of the Pressent, Dr. Pitman, V.F., took the chair. The Court was well attended. The usual business of such meeting was transacted. Only two new members were proposed. There were none for election. The directors once again urge on the Profession the necessity of increasing assistance to enable them to meet the very heavy and increasing demands on the Society. It is expected the balance-sheets of 1870 will show but a few pounds to the credit of the Society. It having been decided that no annicredit of the Society. It having been decided that no anniversary festival be held this year, the directors earnestly request the wealthier members of the Profession to make donations to the declining funds of the Society.

EFFECTS OF FROST ON IRON .. - The general opinion is that cast and wronght iron become more brittle under the influence of a low temperature, and that hence arise some of the railway accidents from broken tires, which we hear of every winter. This matter has been discussed at the Manchester Literary and Philosophical Institution, with the result that the popular notion is unfounded. Dr. Joule said the common-sense explanation of these accidents is, that the ground being harder than usual, the metal with which it is brought into contact is more severely tried than in ordinary circumstances; but to set the matter at rest he made a series of experiments on wires, needles, and cast-iron nails, from which he concludes that..."Frost does not make either iron (cast or wrought) or steel brittle, and that accidents arise from the neglect of the companies to submit wheels, axles, and all other parts of their rolling stock to a practical and sufficient text before using Similar experiments with the like result were made by Mr. Spence and Sir W. Fairbairn, and the last-named gentleman points elsewhere for the real cause. "The danger he says, "arising from broken tires does not, according to my opinion, arise so much from changes of temperature as from the practice of heating them to a dull red heat, and shrinking them on to the rim of the wheels. This, I believe, is the general practice, and the unequal, and in some cases the severe strain to which they are subject, has a direct tendency to break the tires. What is required," he adds, " in this description of manufacture is, that the rim of the wheel and the inside of the tire should be turned to a standard gauge, accurately calculated to give the required amount of tightness with a larger margin of strength; and this done we should attain greatly increased security to the public, and a great saving in wear and tear—to say nothing of the large sums expended by companies in the shape of componention for injuries and loss of life." Says Nature, "Here, then, is another potential triumph for more scientific accuracy, and more hope for travellers."

ROYAL COLLEGE OF SURGEONS .- Professor Erasmus Wilson, F.R.S., will bring his course of lectures to a close this day (Friday). Sir William Fergusson, Bart., the President of the College, will deliver the Hunterian oration on Tuesday, the 14th, at three o'clock, and Professor Flower, F.R.S., Hunterian Professor of Comparative Anatomy and Physiology, will com-mence his course of eighteen lectures on the Characters, Structure, Functions, and Modifications of the Teeth and Allied orracrure, runctions, and Modifications of the Teeth and Allied Organs in the Mammalia, on Friday, the 17th inst. The following is the programme of the learned Professor, viz.:— Essential characters and structure of teeth. Development and succession of teeth. Classification and nomenclature of teeth. Dental formulæ. Modifications of the characters of the teeth in the different groups of the mammalia. Teeth of man. Teeth of Simiina. Old-world monkeys. New-world monkeys. Teeth of Lemurina. Teeth of terrestrial Carnisora. Dogs and allied forms. Cats and allied forms. Bears and allied forms. Teeth of Funcipatia. Sea bears and seals; walrus. Teeth of Inscriptors. Helgehogs, moles, shrews, etc. Galcopithecus. Teeth of Chiroptera. Frugivorous bats, insactivorous bats, blood-sucking bats. Teeth of Redentia. Harres, guinea-pips, porcupines, rats, squirrels, etc. Teeth of Cetacas. Odontocetes, or toothed whales; dolphins, porpoises, narwhal, sperm whale, siphius, and allied forms. Zengfodonts. Mystacocetes, or whalebone whale; rudimentary teeth. Structure and function of baleen or whalebone, Teeth of Ungulata. Perisodactyles; saelent and modern forms, palacotherium, hores, rhinceros, cancies, cherrotatins, and pecons flower than the production of the control of the Teeth of Pinnipedia. Sea bears and seals; walrus. Teeth of manatee. Teeth of Edentata. Sloths, ant-eaters, armaninos. Teeth of Marsapialia. Opossums, thylacine, dasyures, perarecta of Marshpana. Opossums, tuyname, usayures, pera-meles, phalangers, kangaroos, wombats. Fossil marsupials. Value of dental characters in drawing inferences as to the affinities and habits of extinct animals. Horny teeth of Mone-Ornithorhynchus. The course will conclude on tremata. Wednesday, March 29.

VACCINATION IN 1803.—As there is a strong prejudice in some quarters against vaccination, it may be as well at the present time to call attention to a statement made by Mr. Highmore, Secretary to the Small-pox and Inoculation Hospital, at a meeting which was held on January 19, 1803, under the presidency of the then Lord Mayor, at the London Tavern, "to consider of the best means to be adopted for the extermination of the small-pox." On that occasion Mr. Highmore presented a report from the Committee respecting the increased enefit of the institution "since the introduction of the vaccine benefit or the institution—since the initial value of the incombation has been added to the former branches of its practice." The system began in the Hospital, under the direction of Dr. Woodville, in January, 1799, and from that period to December 1, 1802, 11,800 patients and npwards had been vaccinated, of which number about 2500 were afterwards vaccinated, of which number about 2000 were altervaries proved to be secure from the natural small-pox by receiving a further inoculation according to the former practice which took no effect; "a number," Mr. Highmore remarked, "amply sufficient to satisfy the public mind of the security and success of the new practice of vaccination." No complaint had been heard from any one of those who were not inoculated a second time, of their having since taken the natural small-pox, although they were chiefly indigent persons, and the far greater number of them living in places where the air was very confined, and particularly where it had since been ascertained that the natural small-pox was prevalent among those with whom many of them necessarily had continual intercourse. At this same meeting Mr. Wilberforce mentioned a curious circumstance as showing the popular prejudice against vaccination. Out of every 100 persons, he said, who had been vaccinated at the Small-pox Hospital, not five would have submitted had they not supposed it to have been the old-fashioned mode of inoculation.

AVERAGE COMPOSITION AND QUALITY OF THE METRO-POLITAN WATERS IN THE YEAR 1870-from the monthly returns of Dr. Letheby to the Association of Medical Officers of Health .--

Names of Water	Solid for flon.	\$ 5.5 g	Nitr	ogen.	Hardness.		
Companies.	Total 8 Matte per Gal	Oxygen quired Organ Matter,	As Nitrates &c.	As Ammo- nia,	Before Boiling.	After Boiling	
Thames Water Com-	Grains.	Grains.	Grains.	Grains.	Degs.	Degs.	
Grand Junction .	15'53	0:078	0.076	0:002	14'2	3:7	
West Middlesex . Southwark & Vaux-	18-43	0.023	0.002	0.001	14.0	3.7	
hall	16:37	0:077	0.023	0.003	14'2	3.8	
Chelsen	18 67	0.088	0.060	0.005	14'3	3.8	
Lambeth Other Companies.	19:04	0.071	0.181	0.002	14'3	3.9	
Kent	27:31	0.011	0.145	0.000	20.0	5.5	
New River	18:31	0:024	0.088	0.000	14.0	3.2	
East London	. 18-62	0.041	0.003	0.001	14.1	3.8	

Names of V	Vat	er Co	mpa	nies.		Average Daily Supply.						
Thames Water	Closs	panie	s .			No. of Gallons. 53,684,665	No. of Houses. 219,312					
Grand Juneti	on					10,734,368	30,929					
West Middle	ecx.		- 1		- 31	8,814,045	40,887					
Southwark as	ad 1	Jaux	hall	- 1	- 1	15,622,730	77,076					
Chelsea .					- 1	8,167,208	25,518					
Lambeth						10,346,314	44,902					
Other Companie	s.					50,319,392	258,604					
Kent .						7,439,600	39,521					
New River						23,198,417	117,845					
East London						19,680,968	101,238					
Total						104,008,947	477,916					

COMPOSITION AND QUALITY OF THE METROPOLITAN WATERS IN JANUARY, 1871 .- The following are Dr. Letheby's returns to the Association of Medical Officers of Health :-

	lon selid		Nitro	ogen.	Hardness.		
Names of Water Companies.	Total S. Matte Per Gall	Oxygen quired Organ Matter,	As Nitrates &c.	As Ammo- nia.	Before Boiling.	After Boiling	
Thames Water Com-	Grains.	Grains.	Grains.	Grains.	Degs.	D. gu.	
Grand Junction .	21:61	0.070	0.110	0.002	15:9	4.1	
West Middlenex	21:49	0.067	0.110	0.003	15.6	4.0	
Southwark & Vaux-							
hall	20:72	0.063	0.110	0.003	16.0	4.2	
Chelsea	22'67	0.078	0.132	0.004	16'4	4'4	
Lambeth	22.79	0.028	0.001	0.003	16.5	4'4	
Kent	27*37	0.000	0.150	0.001	31.9	5.3	
New River	23:37	0.042	0.152	0.003	16.0	4.3	
East London	15:13	0.028	0.136	0.002	16.7	4.5	

Note.—The amount of oxygen required to oxidise the organic matter, nitrities, etc., is determined by a standard solution of permanganate of potash acting for three hours; and in the case of the metropolitan waters the quantity of organic matter is about eight times the amount of oxygen

the quantity of organic matter as arous eagin, somes user required by it. The required by it. From the to be clear and mastry colorules in all cases but the following, when it was slightly turied—vir, in that of the Chelsea Company, the recording month was, according to the returns of the Water Companies the preceding month was, according to the returns of the Water Companies the preceding month was, according to the returns of the Water Companies the proceeding month was, according to the returns of the Water Companies the rounder of mones supplied was 679.84. This is at the rate of 30° gails, per head of the population daily. The last efficial return from Paris stated that the average duly supply per bead of the population was 27° sullions; but this includes made and the state of the policy of the control of the policy of the policy of the control of the policy of the policy of the control of the policy of the policy of the control of the policy of the po

THE Scientific American says that the Board of Trade of Buffalo have obtained a franchise, and organised a Company to be styled the "Oxy-hydrogen Gas Company," having for its object the introduction of the oxy-hydrogen gas light into that city. Buffalo, it seems, is to be the first city in America

to adopt this splendid light.

VITAL STATISTICS OF 1870 .- In England the registered births were 792,129, and the deaths 515,644, equivalent to a ratio of 35.9 births and 23.3 deaths to every 1000 of the population. The births exceeded the deaths by 276,585, and the year's emigration of persons of English origin was 107,926, the difference between the two (168,659) approximately representing the actual increase of the population of England during the year. The birth-rate was 5 per 1000 above the average of the preceding ten years, and was higher than in any year of the breeding ten years, and was higher than in any year of the ten, with the exception of 1868. The death-rate was "8 per 1800 above the average, and was in excess of the rate for either of the previous ten years, excepting 1864, 1865, and 1866. The marriage-rate for the year cannot yet be determined, but there is little doubt it will be below the average.—Registrar-General's Quarterly Return.

HOPE FOR THE "DUNCES."-Generally speaking, it is not the high classical or even the mathematical boys that have excelled in science-learning, but precisely those who before eccupied no prominent place in the school, had no special gift for classics or mathematics, and were considered, more or less, "good-for-nothings." And here it is important to remember that a person may have a mathematical mind without being a mathematician.—Nature.

Suspicious Vegetation.-Dr. Cohn has discovered a Suspidious vegetation.—Dr. com mae discovering plant in well-water, at Brealan, to which he has given the name of Crenothriz polyspors. The genus is new and is closely allied to Chamasiphon, being intermediate between that and Lyngyba. It was first noticed in water from a well at Breslau, Dyngyos. It was not noticed in water from a weil at pressan, in a part of the town notorious for the prevalence of typhus. It has been found also in other wells of bad reputation, but whether it has any injurious effect upon the health of the dwellers in the neighbourhood of the wells in question, Dr.

Cohn cannot venture to say.—Neture.

YAWNING.—The Midland Gazette says:—"Yawning has been known to produce dislocation of the jaw ; but that an injury should arise from 'stretching' is certainly peculiar.
Still, a youth, of Bedford-street, a few mornings ago, having
risen from bed, proceeded deliberately to stretch himself, and in so doing dislocated his left arm at the shoulder.'

NOTES, QUERIES, AND REPLIES.

Se that questioneth much shall learn much .- Bacon.

Dr. Berryman, St. John's, New Brunswick,-Your letter, with enclosure, has come safely to hand.

A St. Bartholomen's Student.—On making application to the Secretary of the College, you will, no doubt, obtain admission to Professor Flower's course of lectures on Comparative Anatomy.

An Old Member.—The first Hunterian Oration was delivered by Sir Everard Home, Bart., in 1814, who, like Sir William Pergusson, Bart., the orator for the present year, was Sergeant-Surgeon to his Sovereign.

Colonial.-The Act for constituting a Medical Board for New Zealand bears date October 10, 1867.

Fiste.—The oration was delivered in 1837.

A. R. should state the case to the Poor-law Board.

Parens.-Persons should not be revaccinated from "matter" derived from revaccinated arms.

Non est.—The lecturer cannot be compelled to sign the certificate.

Dr. Martin,-Your complaint should be addressed to the journal where th mistake was made-vir., the confounding Dr. William Powell, F.R.C.S. (exam.), with the person of the same name who was examined in the Poorlaw inquiries.

Dr. Lavies has received acknowledgments for the sum of £158 15s., paid by him to Dr. O. W. Letters from St. Germain acknowledge, with deepe gratitude, the kindness of those who have contributed. A consideral sum still remains awaiting Dr. O. W.'s order for payment.

Sulphuric Acid in Wine,-A correspondent calls our attention to an article in the Foll-mall Gasette of Jan. 31-it stating that Mr. Muntz, in ord to prepare himself for a fresh crusade against adulteration of food, had ed some experiments by Mr. Postgate, of Birmingham :

witnessed some experiments by Mr. Poolgaks, of Birmangana: —
"Mr. Poolgav went through the bassal experiments upon tea, coffice,
"Mr. Poolgav went through the bassal experiments upon tea, coffice,
All were more or less shullersted, but the supersided ingredients were
comparatively harmines in their effects. This, however, was not the
per down. These when tested with carbonate of sods aftervesced like
per down. These when tested with carbonate of sods aftervesced like
cole-water, and one of them was found to cordina to alreye a measure of acid
water, and one of them was found to cordina to alreye an amount of acid
water, and one of them was found to cordina to alreye an amount of acid to the ounce as to require twenty-five grains of sods to neutralise it. Further investigations showed at the bottom of the vessel employed a heavy deposit subpurie acid, sufficient to carbonise the organic matter in the liquid and to produce inflammation in the stomach of any unfortunate consumer

The isotorer told his beaves that he had known as instance in which the beautiful control of the control of the

The writer clearly does not know that all pure wines efferve bonate of soda; and that sulphuric acid, if previously mixed with sherry so as to carbonise the organic matter, will no longer carbonise the stomach. As for the precipitated sulphur, it must be borne in mind that, as prepared by the old Pharmacopoia authorized processes, it always stained sulphate of lime. It is a scandal that it should do so still, and we should be glad to see a staff of inspectors employed regularly to examine and report upon the stock of grocers and chemists of the underselling order.

Mr. Armstrong.—Cases of a similar kind constantly come under our notice Publicity is the only means of arresting the evil. The person more immediately interested should apply to a magistrate in London and state the circumstances. The duty is not a pleasant one to discharge; but it would be appreciated by the public, and put a stop, to a certain

extent, to the nefarious system of extortion now carried on.

**Maleers again.—Mr. Smith, whose conduct we noticed three weeks since
with reference to his isolation of scarlet fever, publishes, in the Maleers News, the following advertisement:-

19 January 20, 1870. " Taeston

HEREBY CERTIFY that everything has been done "HERED I ULIGITI I that every summy may be now in the case of Mr. Smith's two children, which science and exprisence suggrest, to prevent the diffusion of scarlatinal contagion throughout the house; and that the house, and reverything it contains, have been thoroughly disinfected, eleansed, and purified, the disease being at an end. "(Signed) "(Signed) "Warras Jonsson, M.B."

That newspaper makes, in a leading article, the following suggestions There is a good deal of common sense in them; but we fear that, in attempting to carry them out, the cry of endangering "the liberty of the subject" would be successfully raised. We are sadly deficient, even now, in sanitary arrangements; the present epidemic of small-pox may

now, in annitary arrangements; the present epidemic of small-you may have some effect in making an quicken our pace;—

"And what, let us salt, would be the effect of the general adoption of what, it is used, would be the effect of the present adoption of hold, the responsible properties element to compelled—let, to make known the fact by some established signal; 7md, to communicate the facts to the project-estation, or in some other competence place in the district. The effect would be—int, that the public would know what houses should be exceed to the public would know what houses should be exceed to the public would know what houses should be considered to the control of the competition of the control of the contro

The Metropolitan Asylum District and the " Pall-mall Gazette."-We have received a long letter from Mr. Jebb, the Secretary of the Metropolitan Asylums' Board, addressed to the President of the Poor-law Board, upon the subject of the mis-statement as to the proceedings of the managers, which have for some time past appeared in the Full-mall Gasette. Mr. Jebb's letter deals serials with the complaints made by the Full-mall. Thus, it asserts that the location of one of the Hospitals at Haverstockhill was a proper proceeding, and that the cost of the land was not exorbitant, but "fair and reasonable." A long quotation is then made from an article in the Pall-mail Gasette, giving a graphic, but certainly, we think, exaggerated, picture of the opening of the various Hospitals at Stockwell, Homerton, and Haverstock-hill, the conveyances being so numerous as to resemble a Derby day; and then a description is given of the desertion of the neighbouring houses by the inhabitants, and a fierce denunciation made against the employment of every kind of conveyance to carry infected persons from one populous place to another, and thus propagate infectious diseases wholesale. The letter of Mr. Jebb, in answer to this, save that-

the systems of the books number of small-year patients received at the three Hospitals of Hampstead, Homestron, and Sockettle, consisting or 1947 500, the whole (with one exception) have been brought in ambeliance specially set agarde for this purpose. The exception, a man—not a partner proceedings of the propose of the process of the

The letter proceeds to say that no patient is discharged until perfectly free from infection; that not a single case of small-pox has appeared get the staff of officers and nurses; that the opening of the Smallpox Hospital at Stockwell has made no perceptible difference in the occupation of the houses in the neighburhood, and large additions have been made within the last two years to the number of houses near to the Hospital.

THE QUANTITY OF BEER, ETC., ALLOWED TO HOSPITAL PATIENTS. TO THE BOTTOR OF THE MEDICAL THESE AND GRETTS.

Sin_—I should be glad to be informed what (about) is the average allowance daily per patient of stout and ale, when and brandy, in the chil London Hospitals. Could any of your readers kindly inform me! X. JAPANNEO TIN DISSECTING CARES

		OUT-	PATIENT	HOSPITA	L REFO	aw.		
TO	THE P	ROTTOR	OF THE	MEDICAL	TIMES .	XAD OAZ	ETTE.	
Siz,-Will	you k	indly a	llow me	to ackno	wledge,	in your	next issue,	the
eccipt of th	e folio	WIDE S	ums to	wards defi	aying U	se expen	sea incurre	1 Dy

the Out-patient Hospital Reform Committee ! Mr. Walter Coulson ... £1 1 0 | Dr. Ogle (Derby) 0 10 0 | Mr. Boger Bell ... Mr. F. M. Corner ... Mr. G. O. Coles ...

COMMUNICATIONS have been received from-

Double of the Committee of the Committee

BOOKS RECEIVED-

BOORS REALISATION CONTRIBUTION OF THE AUTOMOTION OF THE OB-sectional Recovery of London-The Correlation of Expancic Diseases. By the Skin. By Framus Wilson, F. R.S., F.R.C.S.—Skatistical Review of Ten Years of Disease in Manchester and Salford, by Dr. A. Ransons— Mobel's Process for Removing External Tumours. By William A. Bell, M.A., M.B. 'satab.—The Inaugural Address of Balddwin Latham, Mem. Inst. C.E., President Ecology of Engineers.

PERIODICALS AND NEWSPAPERS RECEIVED-

Medical Press and Circular—Nature—The Malvern News—The Pharma-ceutical Journal—The Monthly Homoopathic Review, February—The Indian Medical Gastle-American Journal of Spihliography and Der-matology—Fractitioner, February—Edinburgh Medical Journal, February.

APPOINTMENTS FOR THE WEEK,

February 11. Saturday (this day).

Operations at St. Bartholomew', 1, 15 ms; St. Thomas's, 0, 1 ms; King's, 2 ms; Charing-cross, 1, 5 ms; B. Thomas's, 0, 1 ms; King's, 2 ms; Charing-cross, 1, 5 ms; B. Thomas's, 0, 1 ms; Charing-cross, 1, 5 ms; Even, 1 Hospital for Women, 9, 2 ms; Boya London Ophthalmic, 11 sm; Roya Liververios, 3 p. ms; Rev. W. H. Channing, "Laws of Life Revealed in History."

13. Monday. Operations at the Metropolitan Free Hospital, 2 p. m.; 8t. Mark's Hospital for Diseases of the Return, 2 p.m.; 8t. Feber's Hospital for Bione, Maries and Scient of the State of the State of the Maries and Scient or Lowon, 8 p.m. Mr. Barnes, "A Case of Fatal Hemorrhage from Fibroid Polypus of the Uterus." Dr. Semple, "On Diphtheria and the Diseases Allied to It, or Mistaken for it."

14. Tuesday.

Operations at Guy's, 14 p.m.; Westminster, 2 p.m.; National Orthopsedic, Great Portland-street, 2 p.m.; Boyal Free, 2 p.m.; Boyal London

Greet Fordand-street, 2 p.m.; Moyal Free, 2 p.m.; Moyal London Ophthalmic, 11 n.m., 27, 8 p.m. Meeting, Ophthalmic, 11 n.m., 27, 8 p.m. Meeting, Ophthalmic, Ophthalmic, 12 n.m., 12 n.

15. Wednesday.

Operations at University College Hospital, sp. m.; Bt. Mary's, 15 pm.; Muddlesex, 1 pm.; bt. Thompson, 15 pm.;

16. Thursday.

Operations at 8t. George's, p.m.; Central London Ophthalmic, 1 p.m.; Royal Orthopædic, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m.
HASVAIAS SCHITT, 8 p.m. Clinical Meeting.
David Discoverios. 2 p.m. Dr. Odling, "Davy's Discoverios."

17. Friday.

Gperations at Westminster Ophthalmie, 15 p.m.; Central London Ophthalmie, 2 p.m.; Royal London Ophthalmie, 11 a.m.
BOYAL INSTITUTION, D p.m. Mr. James N. Douglass, Engineer to the Trinity House," The Wolf-Eock Lighthouse,"

VITAL STATISTICS OF LONDON. Week ending Saturday, February 4, 1870.

BIRTHS. Births of Boys, 1178; Girls, 1177; Total, 2350. Average of 10 corresponding weeks, 1860-69, 22

, 1860-69, 2215-5. DEATHS.

Deaths during the week . Average of the ten years 1880-89 . Average corrected to increased population	. 801 798·7	882 772-9	1683 1571-6 1729
Deaths of people above 90			
DEATHS IN SUB-DISTRICTS	FROM	EPIDEM	IICS.

21111 618210 57 10 8 4 671158 53 773175 29 4 Total ... 2803969 196 | 12 49 6 48 11 15 13 14

METEOROLOGY.

From Observations	at	the	Gree	mioic.	Å	Observa	to	ry.
fean height of barometer							٠	29 828 in.
dean temperature							٠	34.9*
lighest point of thermometer					4			47.9*
owest point of thermometer								28-2*
fean dew-point temperature								32'4"
eneral direction of wind.								Variable.
Whole amount of rain in the v	reel	k.					٠	0°19 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, February 4, 1870, in the following large Towns:-

	lon in 1871.*	ere.	during Feb. 4.	during			ture	Temp. of Air (Cent.)	D.	din.
Boroughs, etc. (Municipal boun- daries for all except London.)	Brimated Population middle of the year 1871	Persons to an A.	Births Registered the week ending F	Deaths Registered the week ending F	Highest during	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3259469	41'8	2350	1683	47-9	98-9	34'9	1.61	0.18	0:48
Portsmouth	125464	18.8		84		22 8		1.20	0.15	0:38
Norwich	81787	10.9	61	45		25 0		0.72	0.30	0.76
Bristol	173364	37'0	150	105						
Wolverhampton	74439	22.0	89	33	45.8	26.1	32.5	0.58	0.16	0.41
Birmingham	879574	48:3	965	91.0	47.2	26.8	32.8	0.45	0.12	0.38
Leicester	101367	81.7	89	57	44 5	26-7	33.4	0.78	0.81	0.28
Nottingham	90480	45'3					31.8	-0.11	0.16	0.41
Liverpool	526225	103.0		470	43.5	27.4	33.2	0.84	0.26	0.66
Manchester	379140	84'5	270	221						
Salford	123651	23.9	95	60		27:0		0.84		0.89
Bradford	148030	22.2	181	92		28.0		0.63	0.51	
Leeds	206108	123	220	142	37:0	80-0	83.5	0.67	0.30	0.76
Sheffield	255247	11.5				26.5		0.08	0.35	
Hull	135195	38.0		51	40.0	27.0	32.2	0.28	0.44	1.15
Sunderland	103037	31.5	63			***		***		***
Newcastle-on-Tyne	136293	25.5	90	57		30.0		1.55	0.21	0.23
Edinburgh	179944	40.6	119			33.0		2 01	0.50	
Glasgow	477627	94'3	336			25'0		0.11	1.08	
Dublin (City, etc.+)	822321	33.1	185	222	51.2	32-2	38.9	8.83	0.51	0.23
Total of 20 Towns		_	-	-	-	_	-			_
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The actual numbers of the population of these cities and boroughs, as enumerated at the Consus in April next, will probably be available before the middle of the year, and will then be substituted for these estimates.
 Locknize of some suburbs.

T

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ORIGINAL LECTURES.

LECTURES ON EXPERIMENTAL AND

PRACTICAL MEDICINE.

By BENJAMIN W. RICHARDSON, M.D., F.R.S.

ON DEATH BY DROWNING AND COLD.(a)

GESTLEMIN.—I have taken advantage of the late extremely cold weather to institute a new series of researches on death by drawning in water at 2° F. This is the season in which such inquiries can only be satisfactorily carried on in our country, and it is the season, also, in which accidents occur that oall forth our special curative skill. The study, consequently, is all forth our special curative skill. The study, consequently, is of these directions it is most absorbing. To be also, by any line of study, to see the way more clearly towards lifting up those who have suddenly fallen into death, and who, but a moment before, were in the full of life, is a good effort, even imperfection of grand result; and if attended in the end with affirmative result, would be, of all efforts in the practice of our all minimative result, would be, of all efforts in the practice of variable any improvement, but the study is causely worthy, for it leads us to contemplate the physical phenomens of death with an appreciation which nothing less than an experimental research studing towards the highest of intellectual advancements and the solution of the most selement of imperfectual advancements and the solution of the most selement of imperfectual advancements and the solution of the most selement of imperfectual advancements and the solution of the most selement of imperfects.

I wish as, if you please, to keep these two lines of thought in our miods as we proceed; to think first of the practical, as experiment teaches us fact; to think of what is suggested for practice by each experiment; but to think, also, of the general teaching that may be gleaned, of the alliances of conditions of disease und of death, of the reasons why phenomena of death are manifested, and of the methods by which the phenomena may possibly be averted or removed in various forms of disease.

TWO FORMS OF REAL OR APPARENT DEATH.

When an animal body ceases to render to any of our sense-evidence of motion, voluntary or involuntary, we are accusatomed in the common of our knowledge to think it is dead. If, we may of our knowledge to think it is dead. If, when we try to make you can be considered to the control of the

Thus I would begin by pointing out this truth; and, as far sa I know, it is the first time the same truth has been clearly defined: that when motion ceases in an animal, the body settles into one of two physical states:—(a) a state in which tho water and crystalloidal matter are fixed, the fatty matter selds, but the colloidal matter still hydrous and ready for section: (b) a state in which the water and crystalloidal matter selds, but the same shade of the section o

these two conditions-

l. Crystalloidal. Glacial. 2. Colloidal. Pectous.

As a rule, the immediate condition of the body after arrest of motion of life is the second condition named above, the pectous or insolutive; for so soon as the animal motion has ceased, the tudency of the Shrine is to become insoluble, and to settle into the soils or pectous form. Only one circumstance connected with death can, as far as I know, prevent this r-lunge, and that in, exposure to great cold. If the body, at the limit of death, is so placed that it is quickly reduced below 45 Fahr. in all parts, the pectous change will be avoided, and the selutive or glacel condition will be established.

As I shall illustrate presently, we can, by experiment on certain animals, induce the pure glacial death; and there are some facts which tend to prove that the same kind of death may happen even to man. But let us at once understand that the event in the human subject is extremely rare.

It is essential to have the two conditions immediately following death, of which I have spoken, in the clearvest appreciation; and especially so when we turn from the study of condition to the study of treatment. For here at once is a fact of primary interest: the state which I have called glacial or solutive is one from which we may secure recovery; the pectous or insolutive is one from which there is, according to our present light, no means of recovery. Moreover, as the glacial passe into the pectous condition very easily on mere elevation of temperature, it is worth remembering that in processes of recovery we may, if we are not careful, transform the recoverable death.

CHARACTERISTIC FRATURES OF THE GLACIAL AND PECTOUS CONDITIONS.

Let us now turn to the physical character of the animal matter in and during the two conditions named. At first the animal tissues and fluids are closely slike: there is appearance of solidity, with continuation of form. Here, for example, are two eggs from which the shells have been removed; both are solid, both admit of being out by the knife, surface. But these eggs are in entirely different conditions: arrace. But these eggs are in entirely different conditions; which I call "pectous." The first is resoluble without chemical decomposition of its parts; the second is insoluble unless it be allowed to decompose. Here are two specimens of clotted; they were taken from the same animal—a sheep—two hours ago, and in colour, consistency, general character, they are still as one; but they are quite different in this physical respect—that one is in the glacial, the other in the pectous condition of rollidication. I take the first, gently warm it, and it inquefice: I take the second, gently warm is brought back to the condition of natural fluid blood, the second is immortable. It is worth while before we move from these specimens of blood to mike a further observation. In these brought back to the condition of natural fluid blood, the second is immortable. It is worth while before we move from these specimens of blood to mike a further observation. In these brought back to the condition of natural fluid blood, the second is immortable. It is worth while before so move from these specimens of blood to mike a further observation. In these products are the persure of 45° Fahr. If, consequently, in the process of thawing blood that has been made to mdergo glacial solidification, we raise the temperature to anddedly, we may transform the glacial condition into the pectous without witnessing the internediate stage of fluidity, so related with the process of the persure of the persure that the condition into the pectous without witnessing the internediate stage of fluidity, so related with the process of the persure the sev

general, arter gaseau sonumeaton. We pass from the specimeal—two or proper telling. Here are two animals—two carp; both are west telling. Here are two animals—two carp; both are west would be called dearn both myself tell the condition of one of the condition o

We need not regret this experimental failure, for it is useful lesson, indicating how easy is the transition from

state to another. We will simply take a second carp, that has been also locked up motionless in glacial death, and try again, using more care to restore. This time we succeed; the rigid animal rapidly relaxes, and lesps even out of the water as it is resolved into life. For a time it will remain dull, but

as it is resolved into life. For a time it will remain duit, but it will recover a perfectly as though nothing, had happened tolt. This experiment, on one single fish, is but representative King, the well-known antarulist, of Portland-road, had sent him from Newcastle a cargo of gold fish. The fish had been placed in tepid water; but, in journeying to London, water and fish too were fixed by intense cold, and when they arrived at their destination, the animals were all intensely right and apparently destination, the animals were all intensely rigid, and apparently dead. On pouring heated where upon the ice, and ao dissolving it gradually, the fish recommenced to more in the water, and, as I learn from Mr. King, who himself carried out the pro-ceeding, they all recovered. The experiments thus described can be performed on frogs in an equally determinate manner. When, the performed on frogs in an equally determinate manner, when, remarkation from glacial death is more difficult; the courses of difficulty being that the whole mass of the animal hole of difficulty being that the whole mass of the animal body cannot be equally and simultaneously resolved, and that in the higher animals the blood passes much more quickly into the pectous state; but what we have seen illustrates with sufficient clearness the distinction, in respect to the restoration of life,

clearness the distinction, in respect to the restoration of life, between glacial death and pectous death. I have already said that the two conditions resemble each other closely. It is so. In both states the nuncles may seem firm and rigid; in both the blood may seem solidified if a vein be lid open; in both the crystalline lens may appear opaque; and in both all motor phenomena of life may be entirely absent. But here is the distinctive difference: in the glacial death the active colloidal structures remain hydrous and ready to react; in the pectous death they have taken on a new state—they have been rendered molecularly inactive in respect to motion of fluidity, and cannot be restored to their

rinal condition.

composed an anticolour and a second s when we try Laborde's ingenious experiment of thrusting a needle into the muscles of the animal the steel comes out unneedic into the mascies of the animal the steel comes out un-oridised. In a sentence: In the pure and extreme glacial death there is perfect cessation of motion, as far as we can gauge, and yet the functions are not impossibly prevented, for we know how to restore some animals by the simple process of

we know how to restors some animals by the simple process of restoring heat in a gradual and scientific way. And still, with all the similarities, there is difference that the glacial condition can, for a given time, be recovered from—and perhaps for any time can be recovered from—if evaporation be prevented; while the pectous state sannot be resolved by any known method. If the resolution of the pectors condition back to the fluid condition could be secured without change of molecular constitution, we be secured without change of molecular constitution, we should indeed make progress; but up to the present time we have not succeeded in the attempt. Here is this pectous or coagulated or coagulated earp—the problem is, how to bring them back from the insoluble to the soluble state without changing their character and their properties; how to bring them back in the same way as we bring back the glacial egg, the glacial blood, the glacial aximal. Whoever may effect this transformation is a matter in science.

Some years ago I thought, in respect to blood, I had, in an imperfect manner, resolved the difficulty. I took coagulated blood, triturated the mass with ammonia until it became fluid, and then extracted the volatile alkaline solvent by exhaustion under the air-pump; and it is true that a process like the process of recoagulation could afterwards be induced. I fear I was deceived, and that the condition of solidity induced was not the true pectous condition; it was like it, but was not the

I must leave these definitions of the two states of animal bodies after death, in order to pursue the rarer of the two states—that in which the glacial condition remains for a longer states—that in which the guerial condutor remains for a conget or a shorter space of time. We have seen that in fish and in frogs the body may be brought to such a degree of cold that the process of pectous change may be suspended. It remains to be asked whether the same may occur in the higher animals,

and in the highest animal in the scale of created beings on this planet-man.

Touching warm-blooded animals, I may say that, after many experiments, I have once known a recovery of a kitten after no less than two hours' immersion in ice-cold water; but I have repeated the experiment several times without obtaining the same result. Once, also, the following experimental fact occurred to me, and it is of singular interest:—A dog was occurred to me, and it is or singular interest:—A dog was put to sleep with the vapour of chloroform during a time of intense frost. The animal died in the vapour, and the body was opened after death, and was left exposed to the open air with an injecting tube tied in the ascending aorta. Three was the state of the contract of the c hours after exposure to the cold air, the thermometer registering six degrees of frost, water at 130° was injected by the tube through the arteries of the animal. The result was most singular: as the warm fluid traversed the body, every most angular: as the warm hull traversed the body even muscle appeared to be brought into action. The intestines first showed active vermicular action; the muscles of respiration followed; and, finally, the muscles of the body generally, commencing with the facial, took on movement. At one moment it seemed as if the animal were alive again; but one moment it seemed as it the animal were alive again; but as the injection was continued the muscles settled into per-sistent contraction—they had passed through an interval of motion, during which they had been transformed from the glacial into the pectous state.

OBSERVATIONS ON THE HUMAN SUBJECT.

Observations on the human subject after death by simple cold have been very imperfect, but facts have been elicited which demonstrate that even in man the pectous change, in the muscles at least, may be suspended for long intervals of time, and that the muscular motion may be reinduced under the stimulus of heat. The great experiment of Aldini-in which a man who had been executed was made to exhibit such extreme excitability of muscle that he seemed to live again—was of this character, the man having been submitted to the executioner on a day when the air was extremely cold; and later experiments have confirmed what was seen by Aldini and his fellowobservers. In cases of death by drowning in water at freezing-point, some truths even more practical have been brought under notice. Last year, my friend, Dr. Belgrave, of Hendon, was summoned to attend two men who had been immersed in the lake at the Welsh Harp, Hendon. One of these men was exlake at the Weish Harp, Hendon. One of these men was ex-tricated from the water by Dr. Belgrave himself after twelve minutes of immersion, and, artificial respiration having been immediately set up by Silvester's method, the man recomm immeniately set up by Silvester's method, the main recommenced to breathe naturally, and lived for several hours—the death taking place, ultimately, from what Dr. Belgrave considers to have been congestive bronchitis. It was unfortunate that this have over congestive bronchias. It was unfortunate that this patient was conveyed quickly to the house, and, before the Doctor could control the treatment (the second man being also under his supervision), was placed in a hot-water bath, a method which, as I shall show in my next lecture, is opposed in every particular to recovery.(b)

In this case, then, there was an example of a man who was subjected to drowning and cold at freezing-point for twelve minutes, and in whom, nevertheless, the muscles remained capable of excitation and the brain of consciousness (for the man became conscious), and who, on restoration of respiration,

lived again.(c)

irred again. (c)

A case such as that described by Dr. Belgrava, and so the roughly supported, leads to the conclusion that, in sudden death by drowning and cold, the body of a warm-blooded animal may be so left that the colloidal part shall not for a long period become pectous, but that it shall be left in a condition for recovery even after a prolonged immersion. I have been led thereupon to endeavour to ascertain, by direct observation on the inferior warm-blooded animals—first, what are the phe-nomena of death after the same mode of death; and, secondly, What are the obstacles to recovery. The first of these inquiries I will proceed to explain, in so far as I have obtained information; the second I will reserve for another of our meetings.

MODE OF DEATH AND CONDITION OF THE BODY OF WARM-BLOODED ANIMALS, AFFER DROWNING AND COLD, When strong and healthy warm-blooded animals fall in

transaction and a treasury was an exceeded the billion of the bill

water at freezing-point, the death from the drowning, if death follow, is, as a rule, remarkably rapid, and apparently free of pain. The same obtains in the human subject; for, in the case of a woman who was immersed in water at freezing-point, who wastaken out in an unconscions state, and who remained unconscious for more than twelve hours, I had the opportunity of putting to her the question of her sensations at the time of the accident. She affirmed to me that she felt nothing but an indescribable intenseness of cold, which seemed to make her body feel smaller, followed as quickly by an utter and helpless exhaustion, after which she remembered nothing. It was proved by those who were engaged in dragging her out of the water, that she struggled severely, and was convulsed; but of this she had no knowledge whatever. In strong animals we sometimes see convulsive movements when the body is under the water, and these may occur a few seconds after what appears to be the quiescence of death. The whole of the enomena, up to the time of absolute cossation of motion and of consciousness, are included in the period of a minute, pro-bably, in every case, and I have seen them included in thirtyonly, in every case, and I have seen them included in thirty-five seconds. In very young animals the struggle for life is longer than in old, and in animals well primed with food, and well fed, the struggle is longer than in animals requiring food or imperfectly nonrished; but in all it is very short. I refer to these facts, because to those who have been so unhappy as to lose relatives or friends by drowning and cold, it is a satisfaction, sad as it may be, to know that the death is free from prolonged suspense and from know that the death is free from protonged suspense and now acute pain. Indeed, I should judge it to be one of the easiest of deaths—as easy as death by chloroform. The convulsive movements that are seen are unconscious movements; they are the same as those which mark the period of stupor, in death by hanging, by nercotic vapours, by concussion; and they are simply the results of action of muscles from which the controlling power of the nervous centres has been removed.

Various speculations have been offered respecting the sudden-ness with which those who are immersed in water at freezingpoint sink in it so readily, the favourite theory being that the sufferers are subjected to what is commonly called cramp of the extremities, and are thus prevented from exerting themselves, even if they be swimmers, so as to escape from death. My own view differs from this. It is clear, I think, to all who have witnessed the phenomena of death by drowning and cold, that the cause of the sudden and complete collapse is peripheral nervous shock and sudden exhaustion of the nervous centres by direct extraction of animal heat. It would be most correct to say that the death is by nervous syncope; for although there is no actual loss of blood from the vessels, there is loss of the force the blood supplies, which amounts practically to the same

If a body be removed from the water in from one to two minutes after complete immersion, the muscles everywhere are found perfectly flaccid; and, assuming the convolution which always precedes death shall have been passed through, the nunceles will be found motionless as well as relaxed. The voluntary muscles will be found at first very feebly excitable; the respiratory muscles more excitable; the heart not simply excitable under stimuli, but acting of itself, often in perfect rhythm and in all its parts. Thus, the heart in these cases, as rayoun and in an its parts. Inns, the heart in these cases, as in cases of hanging, poissoning by narcotic vapours, and hemorrhage, continues to the last true to its duty. The action of the heart is, however, very feeble, and it is not sustained long as an independent motion. I should limit the duration of action to five or six minutes.

The heart and all the other muscles, motionless and flaccid though they are, are nevertheless capable of showing vigorous action when they are supplied with heat; and under the infinence of heat they soon undergo true rigor mortis. If a dead ence of nest tay soon undergo true rigor mortis. If a dead animal just removed from water at freezing-point be laid on the muscles on that side will pass into firm, pectous rigidity, while the nuscles on the side vill pass into firm, pectous rigidity, while the nuscles on the side exposed to the air will remain flaced. We may thus witness the curious phenomenon of intense rigor mortis and flacedity in the same animal at the

same time

The condition of the internal organs of the body immediately after death by drowning in water at freezing-point is favourable to recovery, as you will see here in the body of an animal—a rabbit—that was removed from the water five minutes after the cessation of respiration. The conditions are fairly repre-sentative of what is always seen after this form of death. The brain and spinal cord are free of congestion, the cut surfaces free of vascular line or speck, the structure rather firm; the sinuses hold blood, but are not distended. The heart is charged with blood on the right side, but not to distension; the pul-monary artery contains blood in its trunk and branches; the left side of the heart is contracted, but contains a little blood both in the auricle and the ventricle; the arteries are empty, indicating that the final arrest of the circulation of the blood was in the pulmonary tract of blood. The abdominal organs are natural, neither congested with blood nor pale. The muscles are still flaccid, and, under the influence of heat, are

capable of undergoing contraction.

We should infer, from what we see here, that for some time after death a body so little injured and so ready for motion ought easily to be set again in motion. It does truly often occur to my mind as if the merest device would be sufficient to bring back the phenomena of life. What is more, if the body already drowned be left in the water at freezing-point, it will retain the favourable conditions I have described, not for minutes merely, but for hours—as long, probably, as the carp which we brought back to life at the early part of the lecture. I am certain, too, that the day must come when this suggested restoration of the higher animal will be matter of fact, miracle as it now may seem.

Against such success at this moment there are certain ob-Against such success at this moment there are certain for-stacles which observation has rendered clear to view, and there may be obstacles not yet forescen; but those known are suffi-cient to engage our attention, and they are fatal unless they can be removed or overcome. I will bring them carefully

before you at next lecture.

ORIGINAL COMMUNICATIONS.

FIRST PRINCIPLES.

THE NATURE AND TREATMENT OF DISEASE. By Dr. LIONEL BEALE, F.R.S.,

Physician to King's College Hospital.

"The valuable labours now under prosecution in the long-neglected field of treatment of disease. . . . have received general recognition, and thus a final blow has been given to the dominion of a disheartening therapeutic nibilism." Felix con Nibesger.

THE FEVERISH STATE AND ITS TREATMENT. (a) Let us inquire into the nature of the changes which mark the feverish state, and endeavour to decide non what principles our treatment of this common morbid condition should be based. Feverishness may be induced by many very different circumstances, and varies in intensity from a very slight derangement of the normal physiological changes, of little consequence, to a condition that must end fatally in the course of a few hours.

condution that mist ent statuy in the course of a few hours. The invasion of almost every form of acut disease is marked by feverish symptoms; and there not a few chronic diseases which are accompanied throughout their whole course by fever. Feverishness may be studied in the Eurgicol se well as in the Medical wards of the Hospital; and there is certainly not an individual in any civilised community, and probably not one even among savages, who has not experienced, at least in some degree, the phenomena of feverishness in his own organism. Nor are any warm-blooded animals exempt from fever. It is probable that even cold-blooded vertebrata suffer; and I could dduce evidence to show that some of the changes characteristic of fever may be induced even in the frog. Slugs and snails and worms suffer some of the changes characteristic of smaas and worms super some or the changes characteristic of the feverish state. Insects, probably owing to their organisa-tion, cannot be feverish; and certainly the lowest animals and plants are free from any general morbid change allied to fever.

Now, the living organism which is the seat of a slight atow, the hydrog organism which is the seat of a slight feverish attack, differs only from the perfectly healthy body in the fact of the accelerated rate at which some of the ordinary physiological actions are being carried on, and the reduced in-

tensity of other constant processes.

The change may be very temporary, lasting, perhaps, only for a few bours, and neither accompanied nor caused by any structural change in any tissues whatever. At first the blood alone is affected, and a little increased action of the lungs, aione is arrowed, and a little increased action of the lings, skin, bowels, or kidneys may at once cut short the slight dis-turbance which has taken place in the circulating fluid, and which has occasioned the fever—so far a functional derangement

In very slight fever the heart beats more frequently than in the normal state, but it by no means follows that the blood is the normal state, but it by no means renows that in whole is made to circulate more quickly through the capillaries of the tissues and organs of the body. On the contrary, there is evidence in many organs of impeded circulation, of obstruction

⁽a) From a Clinical Lecture delivered at King's College Hospital.

healthy specimens contained,

specimens contained, respec-

ont. So that not only is the

generally greatly increased in

to the free passage of the blood through the capillaries, of dis-tension of their walls, and in some of accumulation of blood. Consequently, the animal heat is not carried off as fast as usual, and the temperature of the blood rises. At the same time usual, and the temperature of the hood, rises. At the same time there is in many parts of the body, even at an early period of the disease, an increased development of heat. The exalted temperature in fever is, indeed, due partly to the disturbance of

temperature in fover is, indeed, due partly to the disturbance of the processe concerned in the energyna george heat, and partly to the invested setivity of the heat-producing process. Less water is given off from the blood in the feveriah than in the healthy state. The blood is, therefore, of lower specific gravity than in health. Many of the little arteries are dilated, and, the capillaries being distended, the blood flows through them more alone's and undersome less change as it flows than and, the caputaries being missended, the brook howe bright them more slowly, and undergoes less change as it flows than in perfect health. The pressure upon the vascular walls is increased. The feverish patient is even conscious of a feeling intrasacci. He inversas passens as even conscious or a years of fulness and distension in many parts of his body. The muscles seem tired; the skin is dry; the lips parched; and the mucous membrane less moist than they should be. All the exerciting organs—the liver, the skin, the kidneys, and the exerciting organs—the liver, the skin, the kidneys, and the exerciting organs—the liver, the skin, the kidneys, and the exerciting organs—the liver, the skin the kidneys, and the exerciting organs—the liver, the skin is the skin of the liver. the bowers—work ices actively than is their work. Although the temperature of the body rises, there is a feeling of chilliness—perhaps actual shivering, as from cold—an instinctive desire for external warmth, yielding to which will, indeed, bring case. A warm bed or a warm both will evileve all the unpleasant sensations accompanying a slight febrile attack in a very short time; but they recur if the external heat is removed before recovery has taken place.

The phenomena characteristic of the feverish state we are

discussing, and some others, the consideration of which I have purposely omitted, are consequent upon changes in the blood.

A perfectly healthy state of the blood and the feverish condition cannot coexist, and it is impossible for fever, even of the mildest degree, to occur without accompanying changes in the composition of the blood. Indeed, the blood-change is the starting-point of every feverish attack, and, if this be due to temporary disturbance only, the balance of opposing actions to temporary disturbance only, the channe of opposing accounts is soon restored by compensation, and health returns; but if it depend npon circumstances which cannot be quickly changed, the feverish state continues, and the degree of its intensity increases

It has long been known that when fever, inflammation, and other blood diseases have become established, the composition of the blood is altered, and even in a slight feverish attack which constitutes an ordinary cold, the chemistry of the blood is temporarily deranged. The extractive matters soluble in is temporarily deranged. The extractive matters soluble in boiling water are present in undue proportion, and it is probable that this increase arises from insufficient oxidation. Various matters, which in perfect health are very highly oxidised, so as to be climinated in the form of carbonic acid, ures, and other substances which are readily excreted, there is reason to think, remain in the blood imperfectly oxidised, or are remy planely and with difficulty periminated in a suboxidised state. Thus there remains in the circulating fluid an excess of soluble material, which permeates the tissues much more readily than ordinary healthy serum would do. This soluble matter transordinary healthy serum would do. This soluble matter trans-udes through the walls of many capillaries, and is appropriated by the bloplasm of the blood, of the ressels, and of the tissues, to their detriment. These very substances are susceptible of a higher degree of oxidation, and might have been oxidised and excreted as urea, carbonio acid, and other fully oxidised and excreted as ures, caronal send, and other any canons substances. The bioplasts or masses of germinal matter invariably increase in size in every form of fever. By this increased growth of germinal matter, which invariably takes place is all inflammations as well as fovers, the close analogy casisting between these two classes of discussic is established.

One important change in the composition of the blood when fever has been induced, may be demonstrated in a very simple way. If the dried residue of the fever blood be extracted with boiling distilled water, it will be found that the proportion of boiling distilled water, it will be found that the proportion of matter dissolved out from the fever blood is much larger than that obtained from the healthy blood residue. Three speci-mens of blood taken from animals which died of the cattlemeas of blood taxen from animals which died of the cattle-plague fever contained, respectively, 2-91, 2-22, and 1-81 parts of solublo matter dissolved out by boiling water, or twice the quantity extracted from healthy ox-blood. The exact amounts

were as follows :-

		Ox-Blood.	Blood from Cattle Plague.				
by evalurating 10)	19.87	20.08	1.	2. 22.78	8. 24.88		
Substances soluble in boiling water	1.33	1:11	2.91	2-22	1.81		

The solid matter of the tw respectively, 6:69 and 5:38 boiling water, while the disca tively, 12.62, 9.72, and 7.22 1 percentage of the solid matter this form of fever, but the e tractives and other substances soluble in boiling water are 1 -ent in increased proportion. These substances probably consutute a pabulum, which is very

readily appropriated by degreest forms of bioplasm.(b)
On the other hand, it has been insisted upon by manyupon purely theoretical grounds—that fever results from peroxidation. So far from the being so, it is certain that the everish condition is from the very first associated with diminution in the activity of the oxidising processes. I even doubt nution in the activity of the oxidating pour of the view that any if there is any evidence whatever in favour of the view that any morbid state known to us depends upon too free oxidation. I do not believe that hyperoxidation is possible. I doubt if we can oxidise ourselves too much. The greater number of our ailments-temporary and permanent, slight and severe, trivial

and fatal-are unquestionably due to, and are associated with,

the very opposite condition—insufficient exidation.

Although fever and inflammation are often considered as if they were very different conditions, the essential pathological phenomena are the same in both states, and a fever may be looked upon as a general inflammation, while an inflammation nonced upon as general innamination, while but innamed may be correctly regarded as a local fever. Fever may usher in a terrible inflammation, and a local inflammation may give rise to general fever. The mitute changes which may be no readily demonstrated in ordinary inflammation, have much in common with those that take place in fever, but in the former condition the phenomena may attain a stage which in fever could not possibly be reached, for the simple reason that death would occur first. A part of the body may be destroyed by the growth and multiplication of the living matter, or bioplasm, until pus results, and although nniversal supportation is, of course, impossible, we do actually meet with cases in which fever runs high and lasts long, and has actually led to suppuration over a great part of the body.

TREATMENT.

But in this lecture I wish to direct your attention to the question of treatment of the feverish condition, in the hope that we may be able to decide upon the principles which should guide us in the management of cases of fever.

In the feverish state the appetite is had, and there is a distribution to take food, sometimes amounting to an actual loathing, and the sight or smell of food is disagreeable. Now, there is no use in introducing food into the stomach of a person who is just attacked with fever, for if it remains it only occasions distress, while in most cases it is soon rejected by the stomach in the same state as it was when swallowed. In fact, the process of digestion is very imperfectly performed, or is altogether suspended, for some time after the accession of the feverish condition.

In slight feverish attacks, lasting only for a few hours, the introduction of food is, of course, of no importance, and abstinence for four-and-twenty hours may be actually beneficial. If, however, the feverish condition exists for any length of time, it is absolutely necessary to introduce nourishment, and our object should be to give those substances which are easily absorbed by the stomach and intestinal surfaces, and which require little change to convert them into matters ready to be appropriated by the living matter of the blood and tissues. Milk and beef-tea are valuable foods in the prolonged feverish condition. Some stomacha will not, however, bear pure milk, in which cases the milk must be diluted with water, and the addition of a little lime-water, or a few drops of liquor potasse, addition of a little inne-water, or a few arops or unuor porasser, is of advantage. In other instances milk is altogether refused, and for nourishment we must depend upon simple nutritious soups, eggs cooked in various ways, beet-bes, or the extracts of meat now so largely sold. The digestion of any animal soups is promoted by putting into each cupful three or four grains of pepsine and twenty drops of dilute hydrochloric acid. If the mixture be allowed to stand in front of the fire for a couple of hours, artificial digestion will actually have occurred, and the mixture will be in a state favourable for absorption, the weakened digestive power of the stomach not being taxed in any way whatever.(c)

But, as I have already hinted, in the temporary feverish condition, the treatment of which alone is now under consideration, little food is really required. Not only is there oftentimes

(b) See my Report on the Cattle Plague, 1866; and "Disease Germs: Their Real Nature," 1871.
(c) Concerning the "Preparation of Pepsine," see my Archive of Medicine, vol. L., pp. 369, 316.

thirst and actual desire for fluid, but the feverish condition is often much relieved by taking water alone. In this way the action of the skin and kidnyny promobed, and this way the cation of the skin and kidnyny promobed, and the skin and kidnyny promobed, and the skin and kidnyny promobed, and the skin and kidnyn of the skin and kidnyn skin and

It would not be judicious to advise plain cold water, while few patients could be persuaded even to taste warm water unless some said substance or other were added to it.

Everyone knows how pleasant is the sensation produced when moderate perspiration is induced in the early stage of a common feverish cold. Even placing the feet in very hot a common feverish cold. Even placing the feet in very hot tension about the head, nostriis, throat, and neck which we have all experienced. The blood is diverted from these parts to the lower extremities. An ordinary warm bath or a vapour bath, which everyone can have in his room ready for use, is still more efficacious. The hot-air bath or the Turkish bath is now much used. Basking in the heat of a good fire varyped up in a ray or lying in a warm feather bed, will have the same the healight forerish state. A glass of hot spirits, or wine and water, a dose of sulphuric other and sweet spirit of microsin stage. A glass of hot spirits, or wine and water, a dose of sulphuric other and sweet spirit of microsin state. A glass of hot spirits, or wine and water, a dose of sulphuric other and sweet spirit of microsin state. A glass of hot spirits, or wine and water, a dose of sulphuric other and sweet spirit of microsin state. A glass of hot spirits, or wine and water, a dose of sulphuric other and sweet spirit of microsin state. A glass of hot spirits, or wine and water, a dose of sulphuric other and sweet spirits of microsin state. A glass of hot spirits, or wine and to work wonders. Even a tumble of hot water, or a basin of hot greal or arrownoot, will redieve the early a spirit of Mindererus (our line, atomic, and the water, or a basin of hot greal or arrownoot, will redieve the early a spirit of microsin state. A great spirit of microsin state of the spirit of a microsin state of the spirit of spirits of a microsin state. The production of contacts of protash, and a number of others which will occur to you, have been given. I have found the solution of acetate of ammonia very

calomel, and thus effect the "cure." In some cases, perhaps by judicious interference at noes, the contraves of more prologed illness, particularly among the youngest and least judicious of patients, may be prevented.

But a slight feverish attack may be uninterrupted test is the only remedy that is required to cut short many an attack of feverishness—indeed, healthy contilutions frequently "sleep off" their feverish allments, and many children who go to sleep

feverial neas—indeed, healthy constitutions frequently "along off" their feverial alments, and many children who go to sleep in a feverials state gut up twelve hours afterwards perfectly well. Now, you will perhaps be surprised when I tell you that all these different remedies and proceedings act beneficially by bringing about the same changes. By all of them the removal from the blood of fluid holding in solution various substances is promoted. Neither perspiration, nor disease, nor purgation can occur without the escape of much fluid from the blood. In this way, various soluble and some imperfectly soluble substances which had accumulated in the blood in undue proportion are gradually removed, and the feverial condition ceases; in other words, the healthy state is restored. The illness consists in the non-removal of these substances, and their gradual accumulation until the normal action of many tissues, and particularly that of nerves and muscles, is disturbed. By rest in the convenience of the substance which we have a consultance of the control of the substance when the same result may be obtained quite as effectively nour the same result may be obtained quite as effectively nour the same offectimes more alonyl. If time be allowed, the exercising organs will resume their work, and thus the various substances which so the substance of the nervous substances which so the control of the nervous substances are the control of the nervous substances and the control of the nervous substances are the control of the nervou

are removed from the body. By the increased action of several secreting organs, the balance of action is restored, and the normal healthy condition of the several tissues and organs is resumed. The proper treatment of a common cold or alight feverals attack is based upon sound physiological principles, which, if well understood, will often safely guide us in the management of far graver maldies.

ON THE USE OF THEINE AS A THERAPEUTIC AGENT. By LEWIS THOMPSON, M.R.C.S.

I wouln wish, through your columns, to direct the attention of the Medical Profession to the use of a valuable agent which has hitherto escaped notice, although its powers are most unquestionable, and its cost price very trivial. The article to which I allude is theine, a substance existing in tea and coffee, and, as I believe, in many other vegetable products. As a medicine, there is powerfully tonic and stimulant, and appears to possess the tonic virtues of the disulphate of quinis united to the stimulating power of wine, but with this difference, that the stimulus from theire is not followed by any depression, as in the case of wine and alcohol.

in the case or wine and account.

Theiro seems to act chiefly on the great sympathetic or ganglionic system of nerves, and but slightly on the brain. I have used it in doses of from one to five grains, with very marked advantage in the low stage of typhoid fevers, confinent small-pox, and that form of mortification of the toes which is small-pox, and that form of mortification of the toes which is so singularly fattle to old people. But, in addition to this, dif-sorting the state of the state of the state of the state of the hemicrania, neuralgia, and what has been called relapsing fever; and in the case of an overdose of opium, it appeared to relieve the narcotic symptoms speedily. With regard to the cost of this medicine, I have discovered that in the ordinary process of reasting coffee the whole of the theins is driven off before the torrification of the coffice is completed, and this before the torrification of the coffee is completed, and this their may be cheaply collected by making the axis of the coffee-roaster tabular. If, instead of a solid axis, we employ at one end of the roaster a tube passing away to the distance at the constant and the passing away to the distance refrigerating power of the atmosphere, and may afterwards be easily dissorded out by a little water, and purified in the manner about to be indicated. As the result of much experience, I have obtained, on an average, seventy-five grains of theirs from the roasting of one pound of raw order; and when we reflect that in Great Britain Alone there are more than 13,000 tons of coffee roasted annually, we see that about 140 tons of theine or concervanced animary, we see that according to them are wasted and lost every year by she around 1 to form a re-haps, be thought that the saving of the their will damage the flavour of the coffee, but from experience I know that it has no such effect; and, in point of fact, it is an advantage to the flavour of the coffee to make both the axes of the roaster tubular, and to cause a gentle current of air to pass through the ap-paratus during the roasting of the coffee, so as to expel the parstus during the roasting of the coffee, so as to expel the empyreumatic products as they are formed. I will now relate the fact upon which the purification of theins depends; and when this is once clearly understood, the manufacture of theins from either tea or coffee becomes an extremely simple matter. Thein is absolutely insolable in a concentrated solution of the carbonate of potash, and thus we may pre-cipitate it from its admixture with sugar, mucliage, and vegetable extract. If, then, by means of the subscetate of leaf, we have removed from a regetable infusion the tannin, andie we have removed from a regreace intensor the tannin, mails and, det, we have only to evaporate the filtered solution to a small bulk, and add to it its own weight of dry carbonate of potach, and the whole of the thein becomes a rone insoluble; so that, having collected this insoluble product, and boiled it in restlifted parit of wine, we have a solution of pure theins, which, after distilling off the spirit, furnishes crystals fit for immediate nee. In gonduloud, it will meavely mention a disimmediate ase. In conclusion, I will merely mention a dis-tinctive test for theine, sufficiently delicate to detect the onethousandth of a grain of that substance. Dissolve the theine in a small quantity of water, and pass through this a stream of euchlorine, then allow the fluid to evaporate at a steam heat; a blood-coloured substance will remain, which, on the application of a few drops of cold water, forms a beautiful scarlet solution like red-ink. It is, I apprehend, almost unnecessary for me to say that euchlorine gas is formed by the action of hydrochloric

acid upon the chlorate of potash.

I ought, perhaps, to add that theine, collected as a waste product from coffee, and purified by myself, has cost me less than three-pence per ounce troy.

REPORTS OF HOSPITAL PRACTICE

FURTHER HOSPITAL EXPE

By T. SPENCER Surgeon to the Queen's Household, (Constanted from Vol.

No.	Medical Attendant.	Date of Operation.	Apre	Condition.	Duration and Progress of Discuss.	Previous Treatment and Tappings.	Measurements: 1, At unbilical level. 2. From ensiform car- finge to unbilican. 3. From unbilican.		
301 (exxix.)	Dr. Junkor	Jan. 1869	27, 41	Married 28 years; children; cldest 27, youngest 4 years	Fourteen years ago noticed a tumour of the sare of an each in left tillne region, which increased very shorly until sage; pain and numbross of both legs; very rayld growth during last 6 months; distinct floetursion in fluid around notulated morable tumour; liver pushed up to fourth rib; pressure on fourth rib; pressure on badder and rectum; dyspaces great emeciation	Dec., 1888: 15 pints fluid, al- butatinous, col- loid corpu-cles, sikeline; sp. gr. 1018. 2nd. Jan. 1899; 10 pints alkaline fluid, sp. gr. 1020. contain-	2. 10 inches 3. 11½ inches	Cterus low, movable laterally; everty 5 inches; cervix short; os off, patalous; posterior wall of vagina prolapsed (rectocele). No timour in pelvis, Catamenia ceased 6 months ago	and replacing uters and vagina, the to-
(cx))	Dr. Livy, Bolton	Feb.	8,-40	Married 21 years; 2 children; eldest 20, youngest 17 years	Six years ago began to swell gradually, poin in secral concessional. Bearing down occasional. Bearing down of uterus; morning sick- ness; rapid growth during last 9 months; etuaciation	Tapped 6 times — Feb., 1888; 22 pints viscid fluid. June. Aug. Oct., Nov. 1883; Jan. 6, 1889; 26 pints alkaine fluid, sp. gr. 1984; col- loid corpuscles	1. 49 inches 2. 14 inches 3. 12 inches	Uterus low, laterally novable; cavity dinches; presed back-wards; anterior lip-elaquete; o o open. Tumour hard, closely presed against, or albering to, posterior posterior vaginal wall prodapsed. Catamenia regular	Large cret in abdomen hard tuniour in pelns
906 exif.)	Mr. Freer, Stourbridge.,	Feb. 1860	18, 29	Married 12 years; 7 children; eldest 11 years, youngest 11 months	Eight months ago noticed a ewiling in public region, right hypochodrum, and both lumber regions, paidily increasing during less 3 well nourished; liver pushed upwards	1869: 16 pints of	1. 52 inches 2. 12 inches 3. 13 inches	Uterus high; lateral mobility; cavity 6 inches; op patulous; anterior lip thickensed; overvir hard. Elementary of the lateral forms and rectama, high up in pelvis. Continual measurant discharge during last 8 weeks	Ovarian tumour
807 cx18.}	Mr. Brown	Feb. 1	7,48	children	Bogen swelling in left iliac region 8 years ago; in- region 8 years ago; in- property of the property months; ordens of both legs; great emacistion		1. 43½ inches 2. 18 inches 3. 11 inches	Uterus normal, free; os closed. No tumour in p-lyls. Catamenia ocased 8 years ago	Free ownian cyst right henbar regio clear, left dull
exim.)	Dr. Shorthouse, Carshalton	Feb. 2	4, 49	years; two children - eldest 21.	Nire months are, com- menord with bearing down pain in both grouns and puble region; increased very gradually; great emaciation	19	. 37 inches . 9 inches . 8 inches	Uterus normal; limited mobility; os open, anterior in thickened; cervic elongated, soft Offensire dieharge from ragins. Tumouf felt high up in pelvic through rectum. Monstruit flow continual during last 6 mobils	Ovarian colloid to mour; lear lumbs sounds

IN

MEDICINE AND SURGERY.

RIENCE OF OVARIOTOMY.

WELLS, F.R.C.S.,

			OPERA	TION.						PRO	OR	ESS .	APTE	R OI	PERATION.			
ie.	and on.	ń	,	.936	d.	of ound.	10 of 12		eratur durin						Therap	peutics,	Result.	Date of Discharge and Subsequent
Anesthetic.	Situation and Length of Inciston.	Adhesions	Pedicle	Почногтваде	Which Ovary Removed.	Method o	Description Tumour.	-	hest R	-	-	7	nt Ra	7	Medical.	Surgical.	General	History.
	-						-	Day.	Temp.		Resp.	Day	Temp.	Pulse.				
hloro- methyl, fer,	Midway between umbili- cus and sym- physis pubis; 6 inches	Extensive parietal	Broad, ahort pe- dicle, sc- cured by large clamp; after- wards re- moved, and pedi- cle trans- fixed, tied, and kept outside		Left; the right healthy; a clot of lymph adhering to its surface was wiped off	Silk sutures	Multilocular fi- bro-cystic tu- mour; a por- tion trubecu- lated, contain- ing extravasa- ted blood and 15 pints of colloid fluid; weight, 12 lbs. 4 o.t.; total, 27 lbs.	of 1st day Eve of 2nd day			01	forn fifth day	98'2	92	5j. lauda- num. Tiret. nucis vora., Wx. on 20th day	and 6th	Recover	Left Hospital 34 days after opera- tion, still in a delicate condi- tion. Went to Brentwood, and returned April, 1869, in excel- lent health, Died subsequently at home Oct.8,1899, No post-mortem. Said to have had brunchitis.
hioro-methyl, jvi.	hetween	Extensive and firm in front and left sides	Twisted pedicie, about 3 inches long; large clamp; no trac- tion	while oc circion; we cut c	light; the left healthy, close to en- larged uterus (as large as in 4th month of pregnancy)	Silk sutures; used to vascular shreds of separated adhesions close to abdomi nal wall	partly trabe- culated, con- taining 40 pints of fluid,	Eve of 4th day Eve of 1st day	102.6	112:	4	Metrostaxis, 2nd to 5th day	98-6	80	3ij∞. laude- num	Stitches re- moved 4th day; clamp 6th day; suppura- tion from stitches; last ligature came off 20th day	Recover	Left Hospital perfectly well 24th day after operation.
Moro-methyl, Svij.	Be- tween umbili- cus and sym- physis pubis; 7 inches	and omen- tal, and to	cured by clamp; the pedi- cle after- wards transfixed and tied	adhe- sions; several omental shreds and a vessel near left ova- ry tied, and shreds and liga-		Silk sutures	Cystoid; vas- cular stroms, softence by fatty decay; a portion trade- culated, con- culated, con- culated, con- fluid; weight fluid; weight fluid; weight 9 ibs. 8 oz.; total 39½ lbs.	Eve of		136)	01	fter- noon f 2nd lay	98-8	128	3j. landa- num; ene- ma of assa- fortida, 5iv.; turpentine, 3j.; tinet. nucis vom., nx., é doses; oxalate of cerium, gr. vi.		Died 99 hours after operation	Post-mortem 18 hours after death. — Slight lympa- mitten; I plant for the state of the state of the state of policy of pelvis; effu- sions; colar of present to each other, of the state adhesions; colar of the state adhesions of the curren; fatly liver; several counces of dark serum in perfusion; and the state of the
bloro- nothyl, irus.	Be- tween umbili- cus and sym- physic pubis; tinche	None	Short pe- diele; large elamp; some traction	Boarcely any	Right	Silk sutures		Eve of 3rd day			ni 6t	ight h	96'8	92	3iiss. lauda- num; ci- trate of potash	Removed attitches 4th day; elamp 11th day	Recovered	Left Hospital 40th day after operation; made a rapid recovery, but was kept in Hospital on ac- count of swelling of right leg.
hioro- torthyl, 15m,	Cancer !	To abdo- minal wall and omen- tura	Overy:	shreds of omen- tum, which were tied and	Both	Silk sutures. Be- tween clamp and podicle rather a free opening left for drain- age	proliferous eystoids of both ovaries, very soft and broken up to pieces, weigh- ing together 2 lbs. 18 oz., and 13 pints of		102-0	128	d d	th lay	99-8	100 21	3i. lauda- num; chlo- ric ether; beef-tea enemas	Removed stitches 4th, 5th, and 6th days; elamp 6th day	Recovered	Left Hospital 31 days after opera- tion, perfectly well.

No.	Medical Attendant.	Date of Operation.	Condition.	Duration and Progress of Disease.	Previous Treatment and Tappings.	Measurements:— 1. At umbilical level. 2. From easform cartilage to umbilicus. 3. From umbilicus. 3. From umbilicus to symphynis publis.	Uterus : Situation, Displacements, Mobility, and Length of Cavity. Catamenia.	
soe (cadiv.)	Dr. Barker, Brighton	March 3, 1869	O Married 15 years; 6 children; cldest 13, youngest 3 years; one abortion in 1867	In July, 1667, violent pains in abdomen below umbil- ing the pain of the pain of the in November, and income incore rapidly afterwards frequent sixtness; very ansemic and emaciated	Eighteen tap- pings between June, 1888, and March, 1889. Last tapping day before ova- riotomy: 18 pints of neutral colloid fluid, sp. gr. 1006		Uterus normal; interni mobility; cavity 3; inches; os open; cer- vix hard, elongated. No tumour is pelvis. Catamenia ceased June, 1868; leucor- rhova	Much free fluid in a dominal carls around a moval tumour, which a be moved with any effect on cere uteri
810 (calv.)	Dr. Shorthouse, Carshal- ton	March 31,	59 Married 25 years; 7 children; eldest 33, youngest 18 years; 7 miscor- ringes	Two years ago began to increase alovely, with pains in gubb region and bearing pidly during last z months dyspose; inguinal gland enlarged; varicose veins of both legs; abdominal wall ordematous	Tapped March 17,1869: 10 pints alkaline colloid fluid, sp. gr. 1012	1. 39 inches 2. 9 inches 3. 9 inches	Uterus normal, high, free; os open; cervis short, soft. No tu- mour in pelvis. Cata- menia ceased 10 years ago	Piec evarian tumou aacites
812(cmlvi.)	Dr. Lucas, Brecon	April 21,	54 Single	After cessation of cata menia (6 years ago) suffered 14 months ago, began it enlarge gradually, and lose flosh	None	1. 39 inches 2. 9 inches 3. 10 inches	Cervin rather high and to right; on closed to right; on closed to right; on close Catamenia ceased & years ago	Multiloular ovaristumour; some dos whether it might is be a soft Broid; i distinct fluctuatios cervix absorbed; cos not get sound in cavity; no bruit; in manufacture and the cost of the
515 (cxlvii.)	.Mr. Blythmen, Swinton	a April 29 1569	35 Single	In February 1809, was evine until a very to the process and the very to the process and the pain to right like much pain to right like region; semi-clastic tumour crepitus around untilicus wery ansemic and emaciated	Tapped April 4 58 pints thick reddish fluid	1. 35 inches 2. 8 inches 3. 8 inches	Uterus antefiered; re stricted mobility; stricted mobility; large, hard, open, un even; base of tumou relt through formi and behind cervi Cutamenia ceased weeks ago; regula before	uterus 2. Peritonosl cano involving ovary
819 (czlyłti.)	Mr. Elliott, Chichester	May 26 1969	21 Single	Two and a half years ago com menced with swelling of lege especially left, and of abdo men, without pain; increas ed very gradually, more ra- pidly during last 12 month- Occasional siskness, and pain and fulness of broasts; dis- tinct fluctuation; lumbs sounds clear; looks health, and well nourished	None	1. 33 inches 2. 5 inches 3. 9 inches	Uterus high, alighti anteverted; on closed congated hard. No congated hard peris. Cata mefnia regular	Ovarian cyst, left s probably a close of nexion with uters front and to left

WELLS'S HOSPITAL EXPERIENCE OF OVARIOTOMY.

Feb. 18, 1871. 189

			OPER	ATION.						PR	OGI	E88	AFT	ER	OF	ERATION.			
:eps	and on.	i		age.	rary d.	of ound.	f. of	-		g A	fter-	and treat	Respin	ratio	m	There	peuties.	Result,	Date of Discharge and Subsequent
Anmethetic:	Situation and Length of Incision.	Adhesions	Pedicle.	Harmorrhage	Which Ovary Removed.	Method of uniting Wound.	Peseription Tumour.		in the state of th	-	-		est Ra	-0-		Medical.	Surgical.	General	History.
Joro- nethyl, ijss., fter un- access- ul trial f other		Parietal	Short pedicle, trans- fixed by whipcord and tied in two portions	Some oozing from adhe-	Left	Silk	A semi-solid tralsculated fibro-cystic tumour, wedghing 6 lbs. 6 os.	Morn of 2nd day	102-8	-	32 E	we diter	98°4		S Besp.	3j. landa- num; enema; with beef- tea and brandy	Injection of armonia, Il., in veins of arms and right saphena and day		Post-mortem 17 hours after death. —No tympanilio- discension; right- discension; right- discension; right- to- ty adhesiona be- tween rectum and uterus; about one pist- discension below of serum in pel- vic exviry; no blood nor eld; red granular thickende peri- toneum; liver adhesent to sto- minal wall; clot in heart.
sloro- sethyl, dv.	From one inch below umbilicus down-wards; six 6 inches	None	Short pedicle; large clamp; little traction	Scarcely any	Left	Silk	Multilocular, proliferous cystoid, par- tially trabecu- lated; soft wall; cavities coated with lymph; 9 pints of fluid; weight 1½ lbs.; total 10½ lbs.	Morn of let day	99-6		22	Metrostaxis 2nd 500 to 6th day 4 m	98-6	78	18	mixxv. hau- danum; ei- trate of potash	Removed stitches 4th and 7th days; clamp 10th day		Left Hospital well 20th day after operation.
hloro- nethyl	Be- tween ambili- cand sym- physis pubis; 6 inches	omental.	Short pedicle; Large clamp; no traction on uterns, but some tension of right broad ligument	Very little bleed- ing, but a consi- derable quan- ity of serum coused from the peritoneal cavity; five shreds of ome- mentum were tied and cut		Silk sufures	Very vascular, multilocular, multilocular, multilocular, partly trabeculated cystoid: fatty degeneration of, and apopalexy in, appoplexy in, that containing containing of olded fauld and lymph; weight, 1 lb. 84 oz.	uny	101.2	130	(0)	eveof pera- tion	96'8	80	200	Sij. landa- num; el- trate of potash; pills of ex- tract bella- donna gr.j. opium gr.es.	3rd day: purulent discharge beside pediele; removed elamp and separated adhesions of intestine behind pediele; introduced elastic tube. 4th day: the same proceeding, and punc- tured trans- verse colon to give escape to gas	Died 5th day after operation	Post - mortem,— Beveral ounces of dark serum in personal production of the post of the control of the post of the control of the tractical of the control of the tractical of the control of the tractical of the control of the small inter- tion was bent in a small short survey, and ad- terior surface of pedicie; heart contained much dark conquires the control of the control of the dark conquires of the control of the dark conquires of the control of the con- trol of the control of the control of the con- trol of the con-
sloro- sethyl, iijes.	Be- tween umbili- ous and sym- phisis pubis; ā,inches	and to a	broad; middle- mised	A good deal from pediele and adhesions; vossela tied and lign-tures eut off	Left	Silk sutures	A soft-walled fibro-cystic tu- mour, partly trabeculated; extensive fatty degeneration; weight, 3 lbs. 4 os., and 10 pints fluid	oth day	10218	150	98-7t	h	100-4	190	21	5vss. lauda- num; sul- phate of quinine 6th day; beef- tes enemas	Removed stitches 5th and 6th days; clamp 6th day. Shortly be- fore death punctured Douglas's space through restum, and removed 3 oz. of pu- rulent, not fetid, fluid	Died 6th day after operation	Post - mortern. — Abdomen dis- tended and tym- panitic : adhe- sion of colls of intestine to each other and to ab- dominal wall; ef- fusion of lymph; 5 to 8 os. of tur- bid, not felid, serum in pelvis
nro- rthyi ljut.	Midway between umbili- cue and sym- physis pahis; 6 inches	None	Right se- cured by circular clamp; left trans- fixed by whipcord ligatures, fastened to clamp, and kept by a pin outside	Scarcely	Both	Silk su- tures	Right: Unflo- locular cyst connected with part of tube and Wolffan body, weigh- ing 69 ourse. Left: Unflocular cyst; internal surface sind- ded with part aurface sind- ded with part part of Wolf- han body and tube attacked, weight 89 cm; fluid of both cysts 10 pints	2nd day	108-4	194		th	96-6	88		siv. of hau- danum; ci- trate of potash	Venceetion from arm —90 cas. of blood 2nd night; re- moved stitches 5th and 9th days; clamp and ligature 15th day	Recovered	Left Hospital per- fectly well 3s days after opera- tion.

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Medical Times and Gazette.

SATURDAY, FEBRUARY 18, 1871.

THE SMALL-POX EPIDEMIC.

We learn from the least return of the Registrar-General that the deaths registered in the week ending February 11 were 21.1. The average small-pox mortality in the first five weeks of the year was 151. Distributing the deaths in the Hospitals among the several districts of London, we find still the East districts furnishing the largest number—namely, 80 deaths. The other districts follow this order—vir., the West districts 45 deaths, the North 39, the South 33, and the Central it deaths. The Registrar-General makes the following remarks upon the age of the persons web have died:

"The mortality from small-pox varies with age. Thus, in the last week the annual rate per 1000 in children under 5 years of age was 107; in young persons of 5 and under 20 it was 32; in persons of the age of 20–40 it was 27; in men and women of 40–40 it was 08; and after 60 the rate was not seen to be suffered to the seen and women of the control bearing upon the question. Does the protective power of the was 20–40 must have been born about the years 1831–31; while those who die at the age 40–40 must have been born about the years 1831–31. Now, it is not likely that the numbers born in 1811-31 were vaccinated in any larger proportion than those born twenty years later; the balance is probably on the other side, yet the mortality at the age 20–40. The danger of dying from the mortality at the age 20–40. The danger of dying from the mortality at the garden of the control of the case of the effect of vaccination wore out with time. The facts of the ten years 1831-50 ever all England bear out this deduction.

This line of argument must be accepted with caution. It goes upon the assumption that the mortality among all the ages mentioned was that of a vaccinated population. The correction it seems to require is a similar statement as to the mortality at the same ages at a time when vaccination was not practised. So far as we can judge by published figures, it would appear that even unvaccinated persons now are very much less liable to take small-pox between the ages of 40—60 than between the ages 20—40, although when they do take it they are more likely to die.

There has never in our experience been a time when greater activity was manifested in London in performing primary and secondary vaccinations. The public stations, thanks to the efforts being made to look up unraccinated children, are crowded with applicants; and a similar demand for vaccination is observed in private practice. Especially, it would appear that the public mind is being roused to the necessity of revaccination—somewhat roughly indeed, but efficiently. Guardians who hositated

about paying for revaccinations among the poor, and who were in the habit of discouraging the practice on this account, have been rudely wakened up to their duty in this respect, and throngs of persons are induced by the dread of the epidemie to secure their protection. To such an extent, indeed, is revaccination being sought, that private Practitioners are in many cases at their wits' end for primary lymph from which to perform it. On application at Whitehall to the National Vaccine Establishment they get only a few charged points, and loud and frequent have been the complaints upon this score. People say that, as usual, the national arrangements for lymph-supply have broken down just at the time when they ought to be most efficient. Yet this is very unreasonable. The National Vaccine Establishment. is only one out of a hundred sources from which Practitioners may supply themselves, supposing even that every man was not bound to do his utmost to keep up a continued supply of lymph by primary vaccinations in his own elientèle. Mr. Simon has very properly, in a memorandum issued by the Medical Department of the Privy Council, pointed all this out. Starting from the assumption that all revaccinations should be performed. directly from arm to arm, the lymph being taken from a primary vaccinifer, he directs those who have no infants on their hands with primary pocks to the public stations established by law, where a fresh batch of children is to be found week after week. It is unfair, under these circumstances, to call upon the establishment which has to supply the army, the navy, and the colonies, as well as to answer demands at home, to furnish lymph for the revaccination of the thousands who are now seeking it. He says-

"No central depôt can pretend to give such separate supplies as will enable sech individual Practitioner to vaccinate at once large numbers of persons. The principle on which the National Vocetne Establishment proceeds (and has always proceeded) in its distribution of lymph, whether to public or with a miglicinery for the preference of a few fact reconstitutes, and it expect that the receipted, so far as the circumstances of this practice render necessary, well sear this method to see the process of the profession of the processor of the profession of the processor of the profession of the processor of the p

depût A little method will enable private Practitioners, and those who have to revaccinate schools and large establishments, to perform all their operations from arm to arm. When it is not essential that such revaccinations should be performed immediately, in consequence of positive close exposure to small-pox contagion, a Medical man might bring all his candidates for revaccination together at one time, and then a trifling remuneration would usually suffice to induce a mother to bring her infant vaccinifer to the Practitioner's house. The chief inconvenience we have heard of in this respect is, that, in some parishes, vaccinations at all the public stations are performed on one day in the week; in some, public vaccinations are only performed twice a week, although three or four stations are in existence. In such places, the local Practitioners who have to revaccinate without delay on the outbreak of small-pox in an establishment or school have very great trouble in obtaining an infant, or are driven to the use of preserved lymph. It is to be regretted that, until the emergency arose, no announcement was made that the burthen of supplying local needs would be laid upon the parochial stations. Had this been recognised distinctly beforehand, it would have been the duty of guardians, where several stations were established, to see that they were open on different days in the week.

Two important circulars have been issued by the Poor-law Board. In one, the Medical officers of districts and workhouses are urged to exercise discrimination in the cases of small-pox which they may recommend for removal to the

Hospitals. This circular has originated out of the observation that "some patients have been sent to the Asylum Boards' Hospitals in so advanced and aggravated a state of disease as to offer but little hope of recovery, and to render the danger of removal especially great." On this, the Poor-law Board announces an intention to "fully investigate all cases in which the patient, on his admission into the Hospital, may be found in a moribund condition." We should have thought this threat as unnecessary as we are sure it is impertinent. The circular was issued on February 2-that is, the very day after the Hospitals at Homerton and Stockwell were opened-so that the observations on which the circular is founded must have been made at the Hampstead Hospital. Does the Poorlaw Board think that no share of the blame rests with them or the Asylum Board if patients arrived moribund? Whose fault was it that small-pox patients had to be carried from even the Eastern parishes of London several miles to Hampstead? We can well conceive such a journey leaving a smallpox patient moribund at its termination, who might have been carried a moderate distance with impunity. To lay all the blame of the evils generated by their own delays and bad management, up to the full development of the epidemic, apon the shoulders of men who do, as a rule, discriminate, and not one of whom, we are convinced, would send a patient on a journey to Hospital without reasonable grounds for believing that be could perform it, is an exercise of power which, in the case of any other public authority, would be called by another name. Is it to be understood that none but mild cases are wanted at the Asylum Hospitals? Are none to be sent there but those of whom there is a good hope of recovery? If so, we hope the Poorlaw Medical Officers will pay no attention to the circular further than to abstain from doing that which, as Professional men. they certainly would not have done, even without the minatory exhortation of the Poor-law Board. Our advice would be-if you meet with a small-pox patient in a place where the disease is likely to spread, send him off immediately, if you think that he has power enough to perform the journey to the Hospital without injury. Never mind whether the case is likely to recover or not-think only whether the danger of the removal is such as to prohibit it. In thus doing your duty to the patient and the public, you may defy the "investigations" of the authorities at Gwyder-house.

The other circular, issued on February 9, is so far reassuring, that we learn from it that the guardians of the metropolitan parishes invariably send their cases in vehicles appropriated exclusively to contagious cases. But we gather further, that all such vehicles are not constructed so as to admit of the patient's being placed in a recumbent posture. Possibly, some of the cases admitted morbund at Hampstead might have travelled very well had they not been compelled to undergo a joilting in an upright posture through the paved streets of London. Why did not the Poor-law Board threaten the guardians with an "investigation" should cases thus brought in future arrive dying of cade?

Although Mr. W. E. Forster believes that the Vaccination Act of 1867 could not be altered for the better, he has moved in the House of Commons for a committee to inquire into its operation. The first reason which he assigned-namely, that the inquiry would tend to disabuse the minds of the few who conscientionaly object to vaccination of the errors on which their objections rest-is to our mind of little force. It will be more waste of time to reopen the question of the harmlessness of vaccination. The persons whom it is hoped to convince are of a class not to be influenced by additional Parliamentary inquiries, from which, moreover, nothing not already theroughly established can possibly issue. The second reason adduced has more validity. We think it is due to the public at large and to the Profession that an opportunity should be afforded for all parties to express an opinion as to the mode in which the law can be made more effective than it is at present. One point especially we hope the committee will take into consideration—nanely, whether, assuming that revacelantion is held by all persons qualified to give a judgment in the matrix to be nearly as important as infant vaccination, and particularly important in view of the recurrence of an epidemic senson, some plan might not be devised by which all persons, on arriving at puberty, night be subjected to the operation. Another good result of the committee might be that it may be shown where and by whom the public duties imposed upon local vaccination—anthorities have been neglected. The question of compulsary registration of birthe, as a necessary condition of encess for a compulsory Vaccination Acts in one which must arise.

BHANG- AND OPIUM-EATING IN INDIA.(a)

THE saving that every race finds out for itself some stimulant -alcohol for Northern Europe, coffee for Arabia, bhang for India, opium for China-is trite enough and, on the whole, true enough. In India, where the common hemp plant (Cannabis sativa) grows freely and acquires properties unknown here, its use as a stimulant and narcotic is of high antiquity. It is prepared in various modes, and is swallowed or smoked -as churrus (the concrete resinous juice of the plant), as gunjah (the dried plant retaining its resinous juice), and as bhang (the larger leaves and capsules without the stalks). So different are the effects of these from those produced by the home-grown plant, that it has been customary to speak of the Indian variety as Cannabis Indica, as if the species were different; but it is not so. The name "bhang" is also given to a narcotic liquor prepared from the hemp, which in this form is largely consumed. From it is prepared a sweetment called majoom, which also contains glice and sugar. The bhang-drinking is had recourse to because alcoholic beverages are forbidden by both the Hindu and Mohammedan religious, and gunjah-smoking is used for a like purpose. Gunjah is never smoked alone, but is kneaded with tobacco in the palm of the hand, and when lighted in the pipe the smoke is inhaled in long whiffs. As usual, under such circumstances, a speedy renewal of the dose is necessary to prevent subsequent depression, and so the hemp-eater, like the opium-enter, soon becomes confirmed in the use, or rather abuse of the drug. Whilst it lasts, the intuxication produced by hemp is of a pleasant kind-a feeling of lightness, and as if the spirit was no longer connected with the dull body, is common. It was the drug employed by the Old Man of the Mountains to give his followers a foretaste of Paradise, and thus secure their infallible obedience. As his orders usually were for the murder of some offender in cool blood, his followers, in course of time, acquired the name of Haschischi, modified into our modern word assassins.

The effect of the drug on the constitution is marked, but not so great as that of opium. The guijah-smoker is dry and rickety in his appearance, his eyes sanken, his checks flattened, and of a generally fladed look. These effects are in a great measure obviated or, at least, mitigated by the use of a dict containing an abundance of fait; but a hemp-eater or smoker is never stout. Dr. Chevers tells us that in practice he has found that an opium-smoker, when sick, must have his done, or he dies, but that the gunjah-smoker may have his drug eut off with impunity, except in cases where every means of alleviating pain is necessary. In connexion with this subject, it may be interesting to note that long age this substance, in the form of majoon, was used as a kind of aneathetic, especially in making enumerisation.

One would have expected that, in a country like India, the intoxication produced by the drug would frequently have been seized upon by the criminal classes for the purpose of robbery;

⁽a) "A Manual of Medical Jurisprudence for India, including the Outline of a History of Crime against the Person in India," By Norman Chevern, M. D., Sengeou-Major I.M., Bengul-Almy; Prunépal of the Calentza Medical College: Professor of Medical College, English, etc. Claritata Thacker, Spink, and Co. Tp. 851.

but this does not seem to be often the case, although in a former article we pointed out that the drug was occassionally mixed with daturs for that purpose. As a result of the prolonged and continuous use of the drug, complete loss of speech is sometimes noted, but is not very common. Much more frequent as a result of the practice is the insane condition in which the individual is prompted to acts of sarvage violence. A few days' quiet generally ends in restoring the mental faculties, but many become permanently insane. It is in the intoxication produced by hemp that running a muck seems most frequent—not that it follows that hemp is the cause of the violence, but the native

excited by some wrong, real or imaginary, fortifies his determi-

nation to be revenged by a dose of gunjah or bhang.

Opium-eating and smoking are very prevalent in many parts of India; but the drug does not seem to be very often used as a poison, except in those parts where it is produced in abundance. But it would seem to have been very extensively employed for the destruction of female children. To this end, it was either introduced into the infant's mouth or the mother's nipples were anointed with it; so that it was insensibly taken in with the milk. Drugging older children, by their nurses, to keep them quiet, is common enough, and opium is used for this purpose also. Opium-eating seems to be most prevalent among the Rajpoots; with them, eating opium together is the most sacred pledge of friendship; and upon festivals and high days the chiefs solemnly partake of it in company. The practice was encouraged, because opium was supposed to strengthen their courage in warfare, and to increase their aptitude for business. Finally, it would seem that in certain parts nux vomica is eaten to the extent of as much as twenty grains a day, in the same way as opium, and the hakeems give it to supersede the use of opium.

THE GENEVA CONVENTION.

At the conference of the Genera Convention held at Berlin on April 22, 1869, it was decided that the next assembly of delegates should take place at Vienna, in May, 1871. It is now hardly likely that the projected meeting can take place at them fixed. The proposals of the Convention for accuring the nutrality of persons and equipages engaged in the relief of the wounded have, meanwhile, been put to a practical test under which they have completely broken down. We had so frequestly infinited our doubtes as to the feasibility of the philanthe-pie schemes of the Convention, that the result has not in any way surprised us.

The communication which appears in another column, from M. Giraldes, expresses in impassionel terms the mod in which the French riew the conduct of the German with reference to the rules of the Genera Convention. Count Bismarck, on his site, has made equally grave charges against the French, and our contributor who supplies the History of the First French. Volunter Ambulance sums up, in a severely judicial manner, the facts, showing that the Genera Convention has become a complete farce during this war, that both parties have violated it, and the less that is said about the matter the better.

When the next meeting of the Convention does take place, let us hope that the bitter experience of the recent war may not be without its results. There should not be much difficulty in defining the limits within which the neutrality of those employed in ading the wounded shall be inviolable. Within the same limits, this neutrality, in order to be some peer, must be some reproofs. On battle-fields, during the heat of action, all who are present must be content to take their lives in their hands, and share all risks. It is simply abourd to expect that trains of ambulance waggous can be discriminated by the enemy from artillery or ordunate stores, which they resemble so strongly as frequently to embarrase even the friends for whose succept they are intended. We have no doubt whatever that, in many of the instances in which complaints have been made on been made on

sides of a treacherous misuse of the flag or badges of the Genera Convention, or of parties bearing them having been fixed upon by the enemy, the infringement of the terms of neutrality has been accidental. Well-authenticated cases of wilful neglect or misapplication of the "red-cross flag" have, however, been too frequently recorded by completely impartial observers for us to entertain any doubts as to bein occurrence. But even these we would be inclined to consider as the results of individual rather than national disregard of moral obligations, and as instances of that "human futility," the burden of which we must bear—

"Till, in eternity,

THE WEEK.

Our contemporary, the Times, has suddenly awakened to a great interest in the subject of Medical reform. In Wednesday's paper appeared a leading article, the gist of which was that it was incumbent on the Government to guarantee the public that all legally-qualified Practitioners should be well qualified to practise in all branches of the Profession, and that the machinery for effecting this was provided by the Bill of last year, which ought to be reintroduced at an early period of the present Session, and passed nem. con. by both Houses of Parliament. The writer or inspirer of the article has taken care to pay a sufficient tribute of approbation to the Privy Council, or rather its Medical department, and to the General Medical Council. The latter body, indeed, seems in the writer's opinion to be as near perfection as possible, and the clamourers for an alteration in its constitution and its election by a kind of universal suffrage are put out of court as a faction in the Profession which is simply beneath contempt. Now, with much in the article we may at once say we thoroughly agree. We hold with the writer that all legally qualified Practitioners should be presumably well qualified to practise their Profession in its various branches, and that the General Medical Council is the proper body to superintend the licensing and examinations of the Profession. But we maintain that these are the advantages which the Bill of the Government, in the form in which it reached the House of Commons, would entirely fail to procure. By the alterations which Lord De Grey weakly introduced into his Bill, it became simply a measure which added one more to the nineteen existing examining bodies, and which made it incumbent on the General Medical Council to legalise the practice of mesmerism, homoeopathy, hydropathy, and every other species of quackery. The writer in the Times, moreover, carries his admiration of the General Medical Council a little too far. We have never joined in the wholesale abuse of the General Medical Council, nor have we the slightest faith in the panacea of direct representation. Nevertheless, we believe that even the General Medical Conneil might be altered for the better. It might be made more really representative; it might be made smaller, more compact, and less expensive, with great advantage both to itself and the Profession. The Profession will not accept Medical reform piecemeal. It does not want a succession of Medical Bills -- in fact. it is showing the desire to work out its own reforms in its own way, without appeal to Parliament. The combination which is being matured between the examining bodies in England will leave little need or room for reform, as far as this division of the kingdom is concerned. In time, Scotland and Ireland, it is to be hoped, will follow suit, and the Profession having been the anthor of its own remodelling, will have no need of submitting to the constructive experiments of a Minister of the Crown or a Medical officer of the Privy Conneil.

The meeting on Wednesday at the United Service Institution, Whitehall, on the subject of the employment of old soldiers and sailors in those civil services of the country which require good health, habits of obedience, and a steady execution of orders, rather than any extraordinary intellectual acquirements, reminds us that there are many offices which are held by Medical men wherein the habits of discipline, the talents for organisation, and the varied experience of retired Medical officers of the army and navy would be specially useful. After five-and-twenty years in the public services, few Medical men are fit for the wear and tear and all the petty annoyances of private practice; but their previous training and experience would render them most admirable public servants as Medical officers of gaols and other government establishments, inspectors of factories, workhouses, and the like. Retired Medical officers are subject to ennui and all sorts of funcied ills. Far better let their talents and experience be obtained for the service of the country than allow them to oscillate in constrained idleness and continual grumbling between the sleepy hum-drum of a country village and the less healthy atmosphere of a London club.

We are glad that Dr. Dalrymple has determined that his Bill for taking care of habitual draukards shall at teast have a fair start in the present session. He has introduced it early, and the manly and carrows works with which he deprecated the mirh with which the first mention of the Bill was received by the House of Commons, will, we should think, obtain for it a fair hearing and examination.

The death is recorded of a young man on the morning of his intended marriage, from an overdose of prussic acid. The deceased was in easy circumstances, and there was no assignable reason for the commission of suicide; but he had suffered from a cough, and was in the habit of taking prussic acid and ammonia in seltzer water. The jury found that death was caused by an overdose of prussic acid, taken by deceased for medicinal purposes, and arose from misadventure. Prussic acid, we may add, was found by Professor E. Rogers in the stomach. We presume no Medical man would recommend a patient to take prussic acid in seltzer water in necessarily nneertain doses. His death must, therefore, have been the result of that little knowledge which is so dangerous, or must be chargeable to the advice of some ignorant and unqualified person. But the question remains-How came the prussic acid in the young man's possession? What has recent legislation on the subject of the sale of poisons done to protect the public from their own ignorance or criminal designs?

Mr. Fairlie Clarke has been elected by a large majority Assistant-Surgeon to the Charing-cross Hospital.

SIR W. PERGUSSON'S HUNTERIAN ORATION.

THE Hunterian Oration, of which we publish the text, will be read with the greatest interest, both by those who formed part of the crowded auditory at the College on Tuesday, and by those who were not so fortunate. The oration was eminently characteristic of the gifted author. Practical tact, great shrewdness, with unmistakable kindness of heart, no ambitious oratory or turgid declamation, wide Professional knowledge, a thorough appreciation of all that belongs to the progress of Surgery, and-may we add ?-just a little of that conservative feeling which is jealous of all unauthorised innovation, and which dislikes the idea that physiology shall trace development beyond the sphere of the circulation, or that a Physician-Accoucheur should meddle with Surgical fever. The tribute paid to the lately deceased worthies of our Profession was just, feeling, and couched in unaffected and nicely weighed language, which evidenced that the speaker's head and heart were warmed to his task. The peroration was particularly well done, and the rapid glance at the career of Hunter, beginning at the modest farmhouse in Scotland, and ending with Westminster Abbey, breathed a moral, which is enforced by Sir W. Fergusson's living example, and will not be lost upon the younger members of the Profession.

REVACCINATION IN THE NAVY.

Wz understand that orders have been issued for the vaccination of all boys and eaches in her Majesty's ressels. We have before remarked upon the consistent of this presention in the nary, and we hope that its introduction during the present epidemic of small-pox will lead to the practice of revaccination of all classes entering that service, as has been the invariable rule for some years past in the army.

INFLUENCE OF RECRUITS IN SPREADING SMALL-POX AMONG SOLDIERS.

WE are informed that several cases of small-pox have appeared among the troops in London, Woolwich, and other stations throughout the country. In many instances the patients have been unvaccinated recruits, who have been attacked so soon after calistment that there has been no opportunity for the operation of vaccination, which, according to the rule of the service, is invariably performed whether the recruits do or do not bear marks of previous vaccination or small-pox. We understand that in Ireland especially very marked instances of importation of the disease into that country by unprotected recruits from Westminster district have occurred. During the present epidemic, and, indeed, under any circumstances, it would certainly appear advisable that recruits should not join their regiments until they have passed a reasonable period in separate barracks under close observation, during which, also, vaccination should be carefully performed.

SMALL-POX IN MALTA.

SMALL-POX has appeared in Malta among the civil population, and a few isolated cases have occurred among the troops.

THE ARMY ESTIMATES.

THE army estimates for the ensuing year provide for an increase of twenty-six Medical officers-namely, seven Surgeon-Majors or Surgeons, and nineteen Assistant-Surgeons. former do not actually represent an increase to the establishment, being composed of merely those withdrawn from India, or specially promoted and classed as supernumeraries. The nineteen Assistant-Surgeons are an actual addition to the strength, in consequence of the increased number of batteries of Royal Artillery. Notwithstanding the increase in the number of Medical officers, the amount estimated for on account of the pay of the Medical Department is £94 less than for the preceding year. This curious result has been attained by a reduction in the estimate for supernumeraries of more than £9000, and by a redistribution of several items of the vote-au analysis of which would occupy more time and space than we have at our disposal. There is a net increase of £766 on the whole Medical establishment and services. The cost of medicines, etc., is £1030 less than the sum voted for the preceding year-rather a remarkable result, considering the increase of the army by 20,000 men; and, if it be attributable to the more careful revision lately exercised in the expenditure of medicines, it shows now necessary such revision must have become, however irksome it may have appeared to Medical officers. The estimate for the military branch of the establishment at Netley again includes the allowance for the Assistant-Commandant, the omission of which in the estimates for 1870-71 was considered an indication that the control and administration of military Hospitals were about to be entrusted to the Medical officers themselves. For the Medical School at Netley an increase of £2318 appears, composed chicfly of the pay and allowance to the mess establishment for sixty-six probationers, of whom there were none during the preceding year. The strength of the army Hospital corps has been increased from 862 to 1000 of all ranks.

NEW HOSPITAL FOR BIRMINGHAM.

A PERLIMINARY meeting, which is shortly to be followed by a town's meeting, has been held to consider the advisableness of establishing a special Hospital for diseases of women. A long statement was read showing the need for such an institution, from which we learn there is not sufficient provision in the existing Hospitals for the proper treatment of these cases. We have no love for special Hospitals-in the main we strongly object to them; they are too often made the media by which certain individuals are brought into notoriety, and are intended merely to be their own stepping-stones into fame and position, the weal of the public being a minor consideration. They also tend to weaken the confidence of the community in the Medical staff of the general Hospitals, which is supposed to be capable of dealing with every kind and phase of disease, which belief should be rather confirmed than weakened. We understand that at the Queen's Hospital, in the resuscitated midwifery department, arrangements have been made to provide for these special cases, and that its Medical officer-a man of large experience in the treatment of diseases of women-is prepared to meet all tho demands which may be made upon his specialité. This being the case, we fail to perceive the special necessity for this new Hospital: instead of which, we would suggest the bringing of the interest and influence which the discussion of it has evoked into the common channels of the General and Queen's Hospitals, wherein might be set apart wards for the appropriate treatment of diseases of women, under the supervision of a "special" Medical officer. Birmingham has already far too many special Hospitals, and we should be sorry, indeed, to see specialism running mad in our hardware metropolis.

CORONERS AND MAGISTRATES.

A very important decision has been arrived at by the magistrates at Bath, which will be the means of affording considerable benefit to Medical witnesses. Hitherto it has been the custom, when a verdict has been given by a coroner's jury, to take the accused person before a magistrate previously to his committal for trial. The Medical witness has therefore been compelled to attend two preliminary examinations, often at great inconvenience, and with very inadequate remuneration so far as the attendance before the magistrate is concerned. It appears that a girl of the name of Pillinger was committed for trial by the coroner's warrant for causing the death of her illegitimate child. Mr. Bruce was communicated with by the judicial authorities of the city on the subject, and, in consequence of the nature of his reply, the bench determined not to have the case brought before them. The coroner's warrant, therefore, is now held to be a sufficient commitment to the assizes without any intermediatory committal by a magistrate.

FROM ABROAD .- BLOODLETTING IN OBSTETRIC MEDICINE.

An interesting discussion took place recently at the New York County Medical Society upon the question of "Bloodletting as a Therapeutic Resource in Obstetrie Medicine." It arose from an able paper read by Dr. Barker, Professor of Clinical Midwifery in the Bellevue Hospital. This he commenced with a curious aneodote, in which he stated that, wishing to bleed a patient, he sought in vain for a lancet at a Surgical instrument maker's shop, although this was "the only shop for the manufacture and sale of instruments within two miles and a half of the centre of residence of the population of this great city.' He naturally regards this as a very significant indication of the change of practice that has taken place of late years, and adds; "In all the consultations on obstetric practice with members of the Profession during the last fifteen years, I cannot recollect a single instance where bloodletting had been resorted to, or even alluded to, as a therapeutic measure to be discussed, except in a few cases of puerperal convulsions." Contrasting this with the almost general practice of bleeding

recommended by all the standard British and American writers, he asks whether the reaction against what had become an almost routine practice may not have been carried somewhat too far. At all events, under that belief he has found himself of late, with an increasing clinical practice, resorting more frequently to the lancet; and his growing conviction that this had been too much neglected by himself and others has just received a new impetus from the perusul of Dr. Richardson's suggestive and practical paper on "Bloodletting as a Point of Scientific Practice." (a)

Professor Baker endeavours to appreciate the true value of this means as applied to diseases of pregnancy, complications of labour, and puerperal diseases,

 To Careaux, Dr. Baker believes, is the chief merit due of establishing that so many of the disease of pregnancy, formerly always attributed to plethora, to be treated by bleeding, really arise from an improversisted condition of the blood, caling for tonic treament. But are not eases of true plethora now overlooked?

"We occasionally see those who have not been remarkable for vigorous health, and who have been accustomed to men-structe freely, exhibit a wonderful renovation of functional activity during a first pregnancy, gaining flesh rapidly; and in such it may occur that real plethora may follow to such a degree as to jeopardise the continuance of the pregnancy, if not the life of the woman. In these cases the feetal circulation becomes oppressed in consequence of the troubles of the maternal circulation, and the appearance of the motions of the foetus are retarded, if they have not yet been perceived, or they become weaker, diminish in frequency, and may cease alto-gether. That this is the result of local congretion is demonstrated by the prompt reappearance of the motions of the fortus after the mother has been subjected to a moderate loss of blood. Even in hydramia, there may be an excess in the quantity of blood-a kind of serous plethora, resulting in great disturbance of the circulation and local congestions, which will be overcome by moderate venescction, followed by a more nntritious diet, and the use of iron and other tonics

Uterine congestions, although arising for the most part in feeble and ansunie women, when not disappearing under the action of revulsives, diuretics, and moderate catharties, are usefully treated by the loss of a few ounces of blood, followed by the use of medicines calculated to improve the condition of that fluid, and especially chlorate of potass and iron. The occurrence of renal congestion and secondary cerebral congestion in pregnancy is well illustrated in the production of temporary albuminuria, and Dr. Barker spay:—

"Within a few years I have had a success in warding off the danger attending this condition, which culminates in pureperal convulsions, by recessction, proportioned in amount to the urgency of the symptoms, which I have never before attained by other prophylactic means. It has seemed to me that there is some liability to err in the neglect of bloodletting, from the feeling that it should never be resorted to unless the patient is in a stheric condition. But some of the most striking instances of its usefulness have occurred under my observation when the patient was extremely ansemic."

- 2. Bloodletting is now rarely recorted to as a means of overcoming rigidity in labour; and its importance is chiefly evident in cases of threatened or developed convulsions. Although it is here a means of great value, it was formerly used too indiscriminately. It becomes, however, in these cases a powerful sedative of spinal action when there is great fulness of the vascular system, and is of cardinal importance when the convulsions are due to urremia.
- 3. Its use in post-pertium inflammations is much more questionable, and Dr. Barker has not for some years resorted to it in these cases, although sometimes doubting as to the prepriety of omitting it. "I have often asked myself," he says also, "whether from our fear of port-pertium haemorthage we may not have sometimes earried too far our precautionary measures to secure the immediate and permanent contraction of the utrus." In some rare forms of pureperal mania, blocaliciting

⁽a) See Medical Times and Gazette, vol. ii., 1870, p. 693,

may be of great service; but a large majority of such cases are undoubtedly associated with, or result from, defective nutrition and nerrous exhaustion. As regards bleeding in pureprafever, a more prolonged experience has only confirmed the opinions maintained by Dr. Barker some years since, that this is often of great utility.

Dr. Peaslee, in allusion to a quotation made from him by Dr. Barker, that in plethoric women he was an advocate for allowing a certain loss of blood after parturition, on the principle that in such subjects, at least, as much blood should be lost as was constantly circulating prior to delivery, observed that seventeen years' additional practice had confirmed this opinion. If in such women he found, upon inquiry, that in previous deliveries they had had but little hemorrhage, and had suffered from subsequent inflammation, he would allow them to bleed a pint or quart before attempting to arrest the hemorrhage by the usual means if these were required. "The pregnant uterus weighing from 21 lbs. to 4 lbs. should contain in its vessels more than a pint of blood. If the woman is plethoric, and has in every part of her body probably more than the normal amount of blood, I can see no reason for retaining this extra quantity." As to bleeding in eclampsia, he has no doubt of its immense value. Dr. Taylor was glad to find that Dr. Barker had not wholly adopted the idea of Cazeaux, that the condition of pregnancy is one of ansemia. The great difficulty in regard to bleeding in pregnancy is the distinguishing between cases of active congestion and those of hydramia; and, although himself by no means an advocate of frequent bleeding, he believed that, if these two conditions could be distinguished, no treatment of greater value could be employed in those cases indicating its use. He wished that Dr. Burker had entered into the subject of the diagnosis between these two states. Dr. Barker replied that the distinction between active sanguineous plethora and the serous plethora occurring in angemia constitutes one of the most difficult points in practical Medicine, often only to be settled by the nicest discrimination; yet he regards the decision as to the question of bleeding as comparatively easy, believing, as he does, that, in certain cases of amemia or hydremia, the deficiency of red corpuscles may be accompanied with excess in the quantity of blood capable of producing local congestion of the kidney, of the uterus, or of the brain (as a result of puerperal convulsions).

"In these exceptional cases, bloodletting may be necessary, though during gestation the amount of blood taken must be small, and strictly limited to the relief of the local congestion, the general condition of the patient being me, at the same time, by the most nutritions must diet and ferruginous tonics. Bleeding in the convulsions of parturitine concess under a di-Breding in the convulsions of parturitine concess under a diperint, in consequence of the convulsion—to prevent apoplexy. The apoplexy, when it occurs, is not the cause of the convulsion, but its consequence. . . In convulsions after labour, wherein much blood has been lost—in a case of placents previa, for example—no sentible man would think of venesction. There the convulsion is due to the hemorrhage, to loss of muscular and exhausted nerve-force. Optum is the great remedy here, and even alcoholic stimulants may be required."

Dr. Lente thought that the reopening of the question of bloodletting is useful; for it is hardly to be supposed that the host of eminent men of the last generation who so unanimously approved of the practice should all be utterly wrong.

"These men were, perhaps, even closer observers than we are at the present day, for the multiplication of the instruments of physical diagnosis would seem rather to have blunted our observing faculties. In an obstetric practice of twenty years, the speaker has seen many cases benefited by blood-letting. There were some instances where this measure seemed to ferce itself on the Physician, though he might be unable to assign the definite reason for it. He was speaking especially of cases of unemic convulsions, which probably constituted inno-tenths of those in which the question arises. But he had seen many more patients benefited by other remedies than bleeding; and to discuss the question properly we should conbeding the du discuss the question properly we should con-

sider the effect of bloodletting, not by itself, but in comparison with that of the other powerful measures now at our command. Doubtless the disuse of venescriton could be ascribed in so small degree to the introduction of other mean having a similar immediate effect, without the remote ill consequences to be one ployed in programacy, was little inferior to bloodletting in the certainty with which it reduces pulse and temperature. Specially applicable to the prespansa and parturent conditions were the inhabition of chloroform and the hypothermic injection of morphia. The speaker had seen patients aswell by those of morphia The speaker had seen patients aswell by those leads to the couly remody, and the Physician would have been accounted a mardeer of the had failed to employ it."

Feb. 18, 1871. 19.5

Dr. James Brown, speaking in the name of the younger Physicians, and having, during the fifteen years he has been in practice, never seen venescetion employed, was disposed to believe that the eminent men of past days were mistaken in their advocacy of venescetion, seeing that they recommended it in the most opposite eases, in some of which, at least, we now know that it is mischievous. The absence of definite indications for its employment renders its practice very difficult for these who have never put it into force. Dr. Hubbard, on the other hand, has bled in every case of puerperal convulsions that has come into his hands, and has seen its good effect in these, both aute- and post-partum. Dr. Prince had witnessed both extremes of practice, and he was prepared to endorse all that Dr. Barker had said in favour of the practice. In convulsions he had seen morphia fail to produce the slightest benefit, and even chloroform cannot always be depended upon ; and in his own practice bloodletting had proved more efficacious than any other treatment-the cases for its employment requiring, however, to be carefully selected, and the effects it produces needing close watching. Dr. Austin Flint, sen., observed-

"I found myself, in the early part of my Professional life, an opponent of bloodletting. I have found myself for the last few years an advocate of it to a certain extent; and have ventured the prediction that not many years will clapse before we shall find the Profession practising it, though in a very different way from our predecessors. I feel surer of nothing than this: the lancet is again to find its place in our armamentarium; and it becomes a question of the greatest import, as we resume its use, What are the indications and contraindications for it?" Into this question he could not enter on the present occasion, but he is of opinion that, while we must admit that much harm was done heretofore by excessive and indiscriminate bleeding, it would be quite unphilosophical to put aside all former experience as worthless. One of its great advantages, as compared with other remedies, is the promptitude of its action; and this in some cases, as in uraemic coms, may be of vital consequence. With the older Practitioners, Dr. Flint believes, also, that it will sometimes arrest the course, or, at all events, shorten the period, of acute inflammation. However mischievous in asthenia, energetic bleeding may be most useful in apnœa, as, for example, in acute laryngitis. Dr. Jacobi, although very seldom resorting to venesection, now and then meets with cases in which he deems it indispensable. He believes with Dr. Flint that by its means inflammation can be prevented or cut short in the first stage, it acting by removing one of the requisites for inflammation-dilatation of the bloodvessels, or local congestion.

"He mechanical action in relieving the blood-pressure is of inestimable use, also, in meeting another class of symptoms. For instance, I am quite positive that many a ease of pulmonary ordema will die without prompt venescetion. I have seen auch cases, and have performed venescetion where I was seen auch cases, and have performed venescetion where I was seen auch cases, and have performed venescetion where I was certain that the patient would have been dead in fifteen minutes but for that. But pulmonary celema is not disease. It is a symptom which may expect in the decrease of the very and others. We see it in the same degree, and presenting the same danger, in acute presumenia. The same holds true of recluss of the brain. No matter whether this is the result of beed disease—as for example, applexey, with consecutive infigurations.

mation—or of an essential fever, we shall, in all probability, as soon as we are satisfied that there is ordema, first draw blood, and relieve the patient, then look for the diagnosis.

PARLIAMENTARY .- OPENING OF PARLIAMENT-SIR D. CORRIGAN-RAILWAY ACCIDENTS—ADULTERATION—SELECT COMMITTEE ON VACCINATION—CORONERS BILL—BILL FOR THE EDUCATION OF THE DEAF, DUMB, AND BLIND—OPEN SPACES AND ENCLOSURES -HABITUAL DRUNKARDS-RATING OF CHARITIES.

PARLIAMENT was opened by her Majesty on Thursday, Februrankary ary 9. From our special point of view the most interesting fact in the day's proceedings was that one of the most distinguished Physicians in Europe took the oath and his seat as Member for the capital city of one of the three divisions of the realm. Sir Dominic Corrigan goes into Parliament with the best wishes of the Profession. He is an able and practised speaker, a ready debater, and may prove a great acquisition to the strength of the Medical phalanx in the House. On entering the House for the first time he was warmly received by Dr. Brady and the other Irish Liberal members.

On Monday, February 13, in the Commons, Mr. Headlam asked the President of the Board of Trade whether it was the intention of her Majesty's Government to introduce a Bill during this Session to carry into effect the recommendation of the Select Committee of last Session on the subject of compensation for railway accidents.

Mr. Chichester Fortescue said he was not prepared to introduce any measure precisely such as that indicated; but he was making inquiries upon railway questions generally, and was anxious to see the Bill of the hon. baronet opposite (Sir H.

Selwyn-Ibbetson).

Lord Eustace Cecil asked the Secretary of State for the Home Department whether, in conformity with his statement to the House last year, he was prepared to bring in a measure this Session to remody the state of the law as to the use of false weights and measures, and the adulteration of food, drink, and drugs; or, failing that, whether he would introduce such clauses into his proposed Licensing Bill as would effectually meet the evil.

Mr. Bruce said, with reference to the use of false weights and measures, a Bill was now in preparation by his right hon. friend the President of the Board of Trade, who authorised him to say that he hoped in the course of the present Session to be able to introduce it. As to the adulteration of food, drink, and drugs, he apprehended that the Licensing Bill, which he himself would bring in, would deal very stringently, and he hoped, also, effectually, with the adulteration of drinks. But was not his intention in the present Session to legislate with reference to food or drugs.

Mr. W. E. Forster, in moving for a Select Committee to inquire into the Vaccination Act of 1867, explained that his motive was not doubt of the value of vaccination—as to which he gave some interesting statistics—but to prove to those who did object to the practice how unfounded were their allegations. He expected, too, that the inquiry would strengthen the hands of the guardians and others to whom the administration of the law was entrusted, and also would furnish some valuable practical suggestions from the experience of the present epidemio.

Sir C. B. Adderley strongly objected to an inquiry which would throw doubt on the practice of vaccination at a time when complete confidence ought to be expressed in it, All

that was needed was to carry out the existing law.

Mr. W. H. Smith was in favour of a committee, which he expected would show how defective and unsystematic was the

administration of the law.

Professor Playfair, who last year opposed the committee, lest the public confidence in vaccination should be weakened when the small-pox epidemic was close npon us, was now in favour of it, in order to ascertain why the practice had not been so successful in England as in the other parts of the kingdom.

Mr. Candlish, Lord R. Montagu, and Dr. Brewer also spoke
in favour of the committee, which was then agreed to.

A first reading was given to the Coroners Bill (Mr. Goldney), and a Bill for the Education of the Blind, Deaf, and Dumb (Mr. Wheelhouse).

On Tuesday, February 14,

Mr. Shaw-Lefevre brought in a Bill for the amendment of the Enclosure Law, which is identical with the Government Bill of last year, with the addition of Mr. Cowper Temple's Bill for the Preservation of Open Commons, which is to be incorporated with it.

Mr. Dalrymple, in moving for leave to bring in a Bill to amend the Law of Lunacy, and to provide for the management of habitual drunkards, said the measure differed in a very of materials or make a sea of the measure the contract of the notice he gave of the measure was met on Thursday last would andre ne gave of the measure was met on Intrasay naw wond vanish when the gravity of the subject came to be considered by the House. The hon member concluded by moving for leave to bring in the Bill, which was granted him.

The Bill was read a first time, as also was Mr. Muntz's Bill

for Exempting Charities from Local Rates.

THE HUNTERIAN ORATION FOR 1871.

DELIVERED AT THE

ROYAL COLLEGE OF SURGEONS OF ENGLAND, ON PERRUARY 14.

By Sir WM. FERGUSSON, Bart., F.R.S., President of the College, and Serjeant-Surgeon to the Queen.

MR. PRESIDENT AND GENTLEMEN,-We are met to commemorate the hundred and forty-second anniversary of the natal day of John Hunter.

Although Hunter's death, which occurred in 1793, was lamented, owing to its tragic character, and the prominent position he held as a Surgeon and man of science, there was a somewhat tardy recognition of those great qualities for which he has been subsequently oulogised. There were varied opinions among his contemporaries and survivors; and, for seven years after, it seemed doubtful what might become of the palpable remains of his life-long labours in science and Surgery. The chief of these-his museum and manuscripts-were in confusion; and there was great danger that they might be so scattered and subdivided that the grand objects of his rcsearches might never have been comprehended. Happily, through the sound judgment of his executors, and the enthusiasm of an apprentice-boy, William Clift, the precious relies were held together until purchased as a whole by the Government, and finally placed under the care of this College. In the year 1800 the collection first came under the protection of the Royal College of Surgeons. The proved abilities of young Clift were still devoted to its service; but considerable time clapsed before it acquired more than a beginning to the great reputation subsequently attached to it.

The absence of proper catalogues seems to have been much felt. Hunter had delayed this part of his work, doubtless trusting to leisure time in later years. A gentleman, who might be considered equal to Clift himself in knowledge of the contents and characters of both, undertook the duty, and for that purpose had the manuscripts removed, for convenience, to his own residence. A cartload—literally a cartload—of these was taken possession of, but never again saw the light of day. Years rolled on; trustees, council, and Mr. Clift alike day. Years rolled on; trustees, council, and art. the scaled to regain possession of the papers, or of the semblance of a catalogue. At last, in 1823, it was announced that these papers had been committed to the flames! It was not the last of the scale of a catalogue. At last, in 1823, it was announced that these papers had been committed to the flames! It was not until 1813, and after much expense, towards which Parliament liberations which is the state of the scale o

Catalogues have been prepared under most proficient skill; the Council has spared neither pains nor expense to enhance its character; and at this date it is indisputably the finest of its kind in the world. The progress of increase seems never to cease year after year large acquisitions are made by purchase and from donations; and since we last met, on on occasion like the present, a collection specially illustrative of dermatology has been added, by the munificence of a member of our Council, which augments in a remarkable degree the value of the whole.

About twenty years after Hunter's death, two of his con-nexions and most distinguished pupils, Dr. Matthew Baillie and Sir Everard Home, made arrangements for the permanent commemoration of his birthday, and since the year 1813 a cere-mony like the present has, with few intermissions, taken place.

A member of the Council of this College is required by the terms of the deed of arrangement to pay tribute to Hunter's memory, and to make passing record of recently deceased members of our Profession, whose deeds in life may have had association with the works in which Hunter himself had been

Seventy-seven years have elapsed since the death of Hunter, and his memory is at this date oherished in a greater degree than it was sixty, or even forty, years ago. In the progress of time his works have become more and more appreciated, and with all familiar with them the impression increases in force, that he has left indications of industry and intellect such as have rarely been associated in one individual. In addition as have rarely been associated in one individual. In addition to his great museum, portions of his writings have carried his reputation far beyond the sphere in which that collection is placed, and it is interesting to consider on which his future fame will most depend.

Tame will most depend.

It was specially characteristic in Hunter so to associate the labours of head and hand that it may with many be difficult to determine in which he most excelled. A glance at his museum fills the mind with wonder that it should have been museum nils the mind with wonder that it should have been the work of one man. The few volumes of his collected writings seem small in proportion; but before coming to a conclusion, the contents of each volume, the quality and original thought contained in that small compass, should be well considered; and if, in addition, the conronous quantity of manuscript which he left be taken into the estimate, hesita-tion may arise in deciding as to the field in which his labour tion may arise in occuring as to the neut in which his incour was greatest. The proofs on behalf of his pen, now extant, are small in comparison with the mass of papers unhappily destroyed, including the famous ten folio volumes so much lamented by Mr. Clift. When that gentleman was examined on the subject in 1834, by a Committee of the House of Commons. the subject in 1833, by a Committee of the House of Commons, he enumerated a list of papers and treatises, so extensive in number, and so rare and original in quality, that apparently there had been destroyed much more than enough to have founded an imperishable name and reputation in science and natural history.

natural history.

It has been rare among Physicians and Surgeons, considering
the numbers of eminence who have flourished, to leave longstanding memorials of their greatness. Their works of skill
and art have perisde with themselves in a generation. Great
statesames, architects, engineers, and painters have left enduring, palpable proofs of their qualities, and they are known to fame almost solely by such proofs. No writings remain to attest their scientific skill, or to diffuse their individual know-

ledge to mankind.

It would be too much to expect at this date palpable memo-rials, such as I refer to, of Hippocrates or Galen; but to come to more recent times, since the study of anatomy has been zealously parsued, how small is the number of great men in our Profession whose fame can be traced otherwise than in our l'rofession whose famo can be traced otherwise than in association with written work. Bistory is quiet regarding any preparations left by Mundiums, the founder of systematic of Vesalius, Albinus, Cheselden, Covper, and a host of the bygone great. Only a few proofs of William Harrey's dealings in antomy are preserted in the College of Physicians of London. Happily, the greater part of Ruysch's celebrated first collections is still, I believe, in good condition in St. Petersburg.

The industry of Ruysch as anatomist and writer was mar-The industry or suysen as anatomist and writer was marvellous; but our English anatomist had a shorter life by a quarter of a century; and, all things considered, there has probably been no such combination of work in one man as that centred in John Hunter. There may have been more voluminous writers in so far as printed works attest, but the untoward fate of his manuscripts must be borne in mind. In respect of work, in the development of a great museum, it may be fairly said that he stands anequalled; and in the com-bined qualities of writer and practical anatomist, he is alone

in a field where a competitor cannot be named.

It is not, however, in mere industry that Hnnter's position is to be estimated. There was an originality of thought and action in all that he did which put him far above the rank of ordinary men in his own department of science. His museum was not a rambling collection of curiosities in natural history, anatomy, and pathology. It was specially designed to illustrate his own favourite pursuits—the study of life in all its phases; its causes, nature, and development, from the lowest stage of organisation up to the complex structure of man—frem the seeds of vegetables to the eggs of animals-from vegetable sap up to human blood and its products.

An anecdote related by Sir Benjamin Brodie in the Hunterian

Oration for 1837 is indicative of Hunter's originality and scope of observation. Sir Benjamin says: "When I was formerly giving lectures as Professor of this College, I found in a drawer in the museum what appeared to be some pieces of dried sticks. Mr. Clift said that he did not know what they dried sticks. Mr. Cliff said that he did not know what they meant, but he was sure that they meant something, and therefore he had preserved them. When I examined them, I found that they were the result of some interesting experiments in vegetable physiology. It appeared from one of them that he had made the first and most important of the experiments made many years afterwards by Mr. Andrew Kniight, proving the descent of the apt hrough the vessels of the bark. Yet these specimens had no ostenable place in the museum, and they would have been swept away as rubbish but for the care of Mr Clift

Many illustrations of a like kind might be collected to show how Hunter was ahead of his time, and the conviction is strong that, had his manuscripts been preserved, the value and originality of his museum labours would have been greatly

enhanced

Happily for the character of Hunter and his museum, the silent testimonies of many of his labours have been admirably deciphered by those who have had the principal care of the preparations. It was, indeed, fortunate that Clift should have devoted his life-labour on behalf of his master's works and fame. Equally fortunate was it that such a man as Owen fame. Equally fortunate was it that such a man as Owen should have appeared on the soene so opportunely. Nor should the zeal, talent, and industry of Stanley, Quekett, Paget. Morris, Taylor, and others be forgotten in association with Hunter's museum. To all these gentienen is chiefly due the merit of those compendious catalogues which throw as much light on Hunter's works and thoughts. It is, in addition, gratifying that the collection is at present under the outstraining of one that the collection is at present under the outstorainp or one distinguished alike as anatomist, Surgeon, and naturalist, whose work already done gives anticipation of a glorions further career, that shall place his name in association with the Hunters and Cuviers of bygone years. Few have thought serioudly of the time, labour, and expense

Few have thought seriously of the time, labour, and expense of developing numeuma in association with our Profession. It seems donbtful if there was any collection in this country worth speaking of prior to the time of the two Hunters. All the senior part of my Professional heavers must remember how, in their earlier days, there was a kind of fashlon in regard to the formation of museums. Everyone who deviced him-self to decauge and any area was very limit and possibly near-ter than the contract of the country of the contract of the country of the count upon such work, and some may have lively and possibly pecu-liar feelings in regard to the labour, time, and money expended. Happily, by the modern system of aggregation of teachers into schools, such custom has fallen into abeyance. Instead of into senous, such custom has fairen into abeyance. Instead of individual exertion, the effort is made by the whole school, and wealth in this way, pecuniary and scientific, has gradually been accumulated, which only the Hunters could have appre-

It is said that William Hunter's collection, now belonging It is said that William linners collection, now occurring to the University of Glasgow, was made at the cost of one hundred thousand pounds. John Hunter's is said to have cost seventy thousand. Through the apathy of a British Minister, who thought that shot and shell were, at the time, of more value to the country than anatomical and pathological speci-mens, the collection of William Hunter was refused a home in meas, the collection of William Hunter was refused a home in the locality where it had been made. At a subsequent date better feeling prevailed in regard to the younger brother's great works. The purchase-money paid by Government was small compared with the original onlay; but Parliament has again and again responded liberally to appeals for pecuniary aid to extend the buildings for the accommodation of the museum; and the Royal College of Surgeons of England, dependent solely apon its popularity with the Profession and the public, has been enabled so to cherish the excellent the public, has been enabled so to cherish the original collec-tion of Hunter, so to add to it, and so to associate it with accessories and adjuncts, particularly with a magnificent library, that it is displayed in its prevent magnitude at a cost of a quarter of a million sterling. This grand possession may be said to be the property of the Surgical Profession and of the public of England. The trustees and the Council of this College are its grantians appointed by law. It is freely open, under reasonable regulations, to all courses, of all quality; and an enthusiast night say, with truth, that it is the heart and soul of British Surgery.

Without discussing minutely whether Hunter's future fame Without discussing minutely whether runner's ruture same will depend chiefly on his museum or on his printed works, it may be admitted that he is most extensively known by the latter. It is the lot of few, comparatively, to have it in their power to visit the museum, but his writings extend over the

earth, and his doctrines may be said to constitute a large portion There are mysteries in nature which Hunter did not pre-

tend to explain, and it might be well if some modern philosophers held in mind that the result of life-long study should not be disturbed by the passing idea of a moment, or by the reckless ambition of upsetting or ignoring doctrines emanating from a brain wherein thought had, for more than forty years,

assumed a favourite place.

Of all Hunter's printed works, the treatise "On the Blood and Inflammation" is generally admitted to be the most profound. To my mind, there are no parts so replete with interest as those devoted to development and absorption. Yet these, if sa those devoted to development and absorption. Yet these, if not forgotten, have been well-nigh smothered in modern verbiage. Separate centres of life, new formations and growths, arrestments and changes of action, irrespective of blood and circulation, are among the fashionable doctrines of "Molecular disintegration" now takes the place of "disjunctive absorption." Crude statements about Hunter's " disjunctive absorption." veins doing what Hunter described as being done by absorbents rems some was runner described as being done by absorbents
—doing what he positively showed by experiment that they
could not; about pus circulating in the blood; about secondary
deposits (as they are called) being the direct result of primary
deposits—ignoring the power of nature to make another, and yet another, deposit when she has already made one; rough experiments which have no semblance to nature's actions;

experiments which have no semblance to nature's actions; modern methods of accounting for malignant disease in various distant parts of the body, as being secondary deposite; are samong the recent ways of tampering with the beautiful and philosophic views of Hunter.

A great living philosophics, one who is specially great in facts, has suggested that when the microscope falls to detect the elementary particle, imagination may legitimately be permitted to bridge the egg, and mentally extend our vision. But suggested the properties of the propertie trace the noble dust of Alexander till he find it stopping a bunghole?' Or again...

"Imperial Casar, dead and turned to clay, Might stop a hole to keep the wind away."

If imagination is to be a future legitimate course in this direc tion, let as imagine something more noble for the "dust" of our hero than the "base uses" to which that of Alexander, or

of Cesar, was consigned by Hamlet.

If I have thus, in good humour, and, I hope, without offence, ventured to question the superiority of certain modern doctrines over those of Hunter, yet I do not fail to bear in mind how little will occasionally arrest or turn aside the tide of events in our Profession. The current is naturally slow, and easily obstructed. More than half a century clapsed ere Davy's obstructed. More than half a century clapsed ere Davy a suggestion regarding anesthesia in Surject of pertains was carried into effect. The progress of ovariotomy was retarded for full thirty years by a simple song of local and personal humour. Who can say what may have been the influence of the sarcastic wit of Rabelais, of Butler, and of John Bell on the doctrines of Taliacottus? Du Hamel and John Hunter were the great animal transplanters (if I may so call them) of their days. Here are the celebrated preparations, from Hunter's own hands, of cockspurs and human teeth, taken from their natural locality, flourishing in the cockscomb. Death abruptly cut short Hunter's Surgical career; but may we not claim for him, with all deference and honour to Reverdin, Pollock, and others of the day, that he anticipated, by a hundred years, the others of the day, that he sincepaced, by a unitarical years, are scientific data on which the present system of human grafting or transplanting is conducted? Here [pointing to a picture] is a representation of portions of skin, each, originally, not bigger than a pin's head, taken from what Butter would have called the 'brawny' part of a boy's arm, flourishing on an uleer of the leg of an old lady above 60! What would John Bell, were he now alive, say to this?

But time warns me that I have still other duties to perform

within the hour, when my allotted task must be accomplished. The grave has recently closed over the mortal remains of James Wardrop, Sir William Lawrence, Joseph Hodgson, Sir James Young Simpson, and James Syme. It has soldom happened that so many distinguished men have had claims for

notice on occasions similar to this.

James Wardrop possessed great natural abilities, and was an original thinker and actor. His casays "On the Morbid Anatomy of the Human Eye" were much esteemed in their time, and his 'Observations on Fungus Hæmatodes,' published at an early period of his career, forms to this day the standard work; I may say the only one on the subject worthy of spe-

cial note. Some of his published didactic lectures were models cial note. Some of his published didactic lectures were models of power and simplicity, and his hast great work. "On Disease, of the Heart." ever cell the sagarity sequired by experience and sag—a simplicity of practice, and a relance on nature, which night be expected from a Hunterian disciple. The fact that he was the first Surgeon in England who, after the example of Dupaytron, removed a tumour in the lower part by Ordal vertical section of the bone, place is in the lower part of the vertical section of the bone, place is in addition to of Teccher's class practical Surgeons; and his modification of Brasdor's operation, his original distal operations, and the effect that all have had on this department of practice, bring his name in association with Hunter's as closely as that of any other in the history of British Surgery.

Of Sir William Lawrence it seems almost a work of super erogation to speak in this theatre. His intellectual head and brow, expressive features, and manly form, can never pass from the rememberance of those who saw him in his prime. the rememberance of those who saw him in his prime. A pupil of Abernethy, and an admirer of Hunter greater than his master, if that were possible, he, of all English Surgeons, excelled the most in developing the labours of Hunter in comparative anatomy. The currency which he gave in England to the works of Blumenbach; the taste, elequence, and ability with which he inculcated the study of comparative anatomy— a subject little more than in its infancy in Lawrence's early days; his mental capacity as anatomist, scholar, and orator; his polemical energy in supporting his favourite views, whether these were scientific or Medico-political, marked him in early years as one of the foremost men of the day in the walk of life which he had chosen. He rose, as we all know, to the highest honours to which a Surgeon can aspire in this country : but it has often been said, and assented to, that, had he been a member of another Profession, he might have risen to the highest rank or smooner recreasion, as might have risen to the highest rank which a subject in England can reach. His treatise "On Hernis," originally a Jacksonian prize essay, may be considered as the first compendious work on this most imporsidered as the first compendious work on this most impor-tant subject which ever came from British Surgery; and, although published more than sixty years ago, may, in its fifth edition, be considered the standard of reference at the him great and well-grounded reputation in Ophthalmic Sur-gery. His "Introduction to Comparative Anatomy and Phys-cology," and his "Lectures on Physiology, Zeology, and the Natural History of Man. "added largely to his fame in early life. His position as Surgeon to the greatest of English Hos-manus and the surgeon of the property of the property of the ments, his creative of the property of the property of the pro-ments his creative of the property of the property of the pro-ments his creative of the property of the property of the pro-tes of the property of the property of the property of the pro-tes of the property of the property of the property of the pro-tes of the property of the property of the property of the pro-tes of the property of the proper ments, his oratorical powers, his repute with the Profession and public at large, all made him a man of great note. It gives me much pleasure to state that, on some familiarity with the Hunterian orations that have been delivered in this theatre, the two specially devoted to the subject by Lawrence seem to me among the most cloquent which the occasion has ever called forth.

Joseph Hodgson received a considerable part of his educa-tion under Aberacthy and Lawrence. He distinguished him-self in early life by his treatise "On the Diseases of the Arteries and Veins," containing the pathology and treatment of ancurisms and wounded arteries. The work, which in its first stage had secured the Jacksonian prize, was more elaborate than any that had appeared since the Hunterian doctrines ou the subject had been recognised and approved. It was comprehensive and practical. The language and composition were simple and easily understood. It was much esteemed at the time, having been translated into German and French, and it time, having been translated into German and Frence, and it forms a worthy companion to the first-class reaches on Suppical forms a worthy companion to the first-class reaches on Suppical and a Scarpa. Astley Cooper, Charles Bell, Brolin, Sannel Cooper, Travers, Colles, Guthric, Porter, and numerous others. Mr. Hodgson commenced Professional life in London, but soon after was induced to settle in Brimingham. In the extensive opportunities afforded for practice in that populous town and surrounding district, he acquired the esteem and confidence of the public and his Professional brethren; and for many years no man among the Surgeons of Britain was held in greater respect. After a most successful career, he withdrew from the scene of his active labours, and settled in London in dignified retirement. His mind still clung with fondness to the subjects with which it had been most engrossed, and for years his opinion was eagerly sought by his admirers in the Profession and among the public. So highly was he esteemed Profession and among the public. So linguity was he estecimed by the Fellows of this College, that he was elected to a sent at the Council Board, and in due time placed by that Board on the Court of Examiners. It must be in the recultertim of many here how zeadously, homestly, and ably he performed all the varied and often most onerous duties pertaining to such distinctions, and also how grazered by the filled the presidential chair before limitly retiring from public life. It was his fortune to be a Hunterian orator. Few others more clearly and zealously appreciated the Hunterian philosophy; and it was a pleasing combination of circumstances which finally brought him out in that character, after he had been long recognised as the chief authority on the operation with which Hunter's

name is indelibly associated. The name of Sir James Young Simpson is deeply impressed on the history of Medicine and Surgery. His example is one among many in our Profession, as well as in others, of what may be called a self-made man. Possessing even fewer advantages than most beginners in life, his individual industry made tages than most organization for an intervious number? master pulse of security and the security of the security of the pulse of the security through the worked in school by days whilst others played. In early Professional life to attracted the notice of Dr. John Thompson, the able expounder of Hunter on Inflammation, and was selected by that dis-tinguished man as a special assistant. The scientific atmosphere in which Thompson lived must have had great influence on Simpson's youthful, I may say latent, talent. The connexion, I have no doubt, went far to favour his claim for the chair of Midwifery in Edinburgh. Once fairly fixed in that position, it became the stand-point whence emanated all his subsequent multifarious and brilliant intellectual work. In his own special department I do not presume to be a judge, but I imagine that since the days of Smellie, William Hunter, and Denman, he has never been surpassed. In scholarship, in antiquarian lore, and in extent of practice he has had few equals in our Profession; and rarely have men carned such distinction as he did out of their ordinary walk in life. The zeal with which he investigated any subject, Professional or otherwise, was unbounded, and it has been, I venture to say, fortunate for modern anesthesia that Simpson lived. Whilst recognising his remarkable discovery and development of the peculiar influence of chloroform, it may in after-time be questioned whether he does not deserve equal, if not greater, credit for the persistence with which he advocated anesthesia in woman's most trying hour. Sulphuric ether is still by many thought equal, if not superior, to chloroform, and other agents are in high repute in Surgery and Dentistry; but Simpson's practical vigour in ansesthesia has nover been surpassed, and his name must always remain associated with one of the most remarkable discoveries connected with our Profession. Although Simpson's path was more as a Physician than a Surgeon, he had remarkable proclirities for Surgery. These were evinced in every imaginable way in his own special department, but chiefly in his discovery, as I may call it, of acupressure, and the remarkable real with which he recommended this mode of closing divided arteries. His forensic powers in advocating the advantages of this practice have never. Limagine, been sufficiently appreciated. His abuse of the ligature would have gratified Pare's most violent enemies, and his modern artillery, consisting in suppuration, absorption, blood-poisoning, pyremia, and secondary deposits, might, if used in former times, have blown the doctrines of the great Ambrose iuto thin air. It was in association with this subject that his powers as a special pleader were remarkably displayed; for here he revived, and made to appear in a new and original aspect, under the name of "Surgical fever," all those doctrines regarding symptomatic, sympathetic, or inflammatory fever, which had been in a manner oriented by John Hunter, and elaborated by Thompson, Travers, and others. Yet in regard to these matters we must claim Simpson as a gennino to these matters we must claim Simpson as a gennino disciple of Hunter. His object was to further adhesion by the first intention, and to avert constitutional irritation. He entertained the idea that needles were less of foreign material, loss offensive to nature, than ligatures. This is neither tho time nor opportunity to discuss these interesting matters in association with Surgery or Simpson's memory; but I cannot resist the opportunity of paying my humble tribute of personal commemoration to one who, in the combined character of phystologist, archeologist, obstetric Physician and Surgeon, and the giver of the greatest possible good to the greatest possible number, has perhaps never had an equal.

My last tribute in this way shall be in memory of James Syme. Like most who have pecially istinguished themselves in Surgery, Mr. Syme began his brilliant Professional eracer as a teacher of anotomy. Hindesting, lowever, had been Surgery, and he soon relinquiched the scalpel of the anatomist for the was remarkable. His success in his newly-seasmed duties was remarkable and the state of the season of the season of recognised; and although at this time he was comparatively quite, modest, and or retring lubtis, he grained hosts of ad-

miters and friends, who foresaw in him the future chief of Sargery in Scotland. He had to work his way, I may say stand his ground, in a department already occupied by dis tinguished teachers-Allan, Turner, Liston, and Lizars; yet the numbers of his pupils speedily became nearly as large ca those of the whole of his contemporaries. At this period, before taking office in the Royal Infirmary, he, almost on his single responsibility, instituted a small Surgical Hospital, which he managed in all its departments with prudence and indomitable energy. Cases of special interest were sent to him from all parts of Scotland, which enabled him to display that great diagnostic power, clear judgment, rare manual dexterity, skill in design, and Surgical courage, for all of which he after wards became so distinguished. It was here, also, that he speedily evinced those remarkable qualities which made him the ablest clinical teacher of Surgery of the day. I remember well the effects of his labours on his immediate pupils. He was their prophet in Surgery, and inspired them with entire confidence in his powers. The great tact which he had in making a trivial case in Surgery appear almost as interesting as one of the most complicated, was remarkable. Although in reality he had a keen relish for all the great things in Surgery, he could clothe the story of a carbuncle or a whitlow with the romance of a diseased elbow-a theme rendered at that time, through his individual exertions, of surpassing interest. The migration of Liston to London left Syme on the well-wonthrone of Practical Surgery in Edinburgh and Scotland; and how he held sway, and increased his renown, is well known to all who have watched our schools during the last thirty or forty There is scarcely a subject in Surgery which he has not touched, and thereby adorned. Besides his standard works "On the Principals of Surgery," "On Excision of Diseased of Joints," "On the Pathology and Practice of Surgery," and his remarkable papers on stricture of the urethra and perincal section, he has written more ture of the uretara and permean section, no nas written more voluminously in the shape of isolated papers on Surgical subjects than any practical man that could readily, perhaps possibly, be named. His operations on the jawa, when they were little known in Britain, his revival of oxcision of the elbow, his special amputation at the ankle-joint, his ingenious plastic operations on the face, his operations on the great arteries for ancurism (on Hunterian principles, and notably on the old principle), and his bold removals of the entire upper extremity, will indelibly associate his name with the grandest deeds in practical Surgery with which we are acquainted. Mr. Syme was in every sense an accomplished Surgeon. His preliminary education was good; he had knowledge and skill in modern languages, and inborn taste for science and natural history, which he cherished throughout life. But a passion for Surgery seemed to dominate in his temperament. Happy for himself tha it was so, for it may be justly said that he was king among his fellows; and happy it has been for Surgery that such a man should have devoted his great abilities to the embellishment of that department of art and science in which the disciples of John Hunter are so deeply interested.

Such themes are apt to attract too much attention from one in my present position. It must be admitted, however, that they were, at least, the second object of the founders of this ceremony.

Before making my bow of conclusion, I shall revert to the memory of the great man in whose honour we are assembled. In as far as we can make out, his life was happy as it was brilliant, and peculiarly so in that he was cuabled, without hindrance, to indulge, to a greater extent than most men ever did, in a natural, useful bias of mind. His Professional gains were estimated by himself chiefly in proportion as they enabled him to pursue his studies and increase his accumulations in natural history; and he gratified his desires in this way to an extent as fabulous as history records. Men have given thousands for single pictures, or objects of art; but who, excepting John Hunter, enthusiast above all other anatomists, ever paid five hundred pounds for a human skeleton? That his pursuits were more pleasurable to him than any other work in the world must be undenbted. Look at the results. He, in the course of years, and at the age of 65, secumulated a treasury of facts in his museum and writings, which, from the time of his death to the present day, may be said to have been the fountain-head of modern science in our Profession The streams from thence have flowed in largely varied directions, and no man yet can span the course they may take! Truly his example may excite to emulation. Even the length we may lag behind should induce us to think more highly of the lofty pinnacle where he stands, alone among Surgeons! The question between gonius and industry is not worth

discussion in his case. That he had industry no one can dispute; he has left evidence of it unparalleled among Surgeons. I am a firm believer in his genius, but am of opinion that it was so tempered, so overspread, with the spirit of industry, that there was the just balance, so rarely combined in one man, which gives him a pre-eminence among mortals, and a rank in place with the greatest of human beings. He was born, the tenth child of his parents, in a modest country house in Scotland. He seems to have led the idle life of a wayward, petted boy, rie seems to nave led the tide lite of a wayward, petted boy, until twenty years of age, when his action changed, and the dawn of his future greatness appeared. He had neither wealth nor influential friends to further his worldly prospects, yet he cose to be the foremost Surgeon and physiologist of his day. He read nature more closely than most other men, and thereby came neaver in communion with the Divine Anthor of all. came neaver in communion with the Divine Anthor of all. Parts of the proof of his physical labour are treasured within these walls; portions of his mental labour are, in printed form, the property of the world at large; his mortal remains rest beside those of many of England's greatest sons within the hallowed shrine of Westminster Abbey. Such is, in brief, the story of John Kunter! In the ovening, the Freidsnich, Vice-Freidsnich, and Combile the Communication of the

In the evening, the l'resident, Vice-l'residents, and Council entertained a large and distinguished party to dinner, at the Albion Tavern, amongst whom were observed the Lord Chief Justice, Sir Wim Bovill; the Lord Mayor; the Lord Chief Baron, Sir F. Kelly; Vice-Chancellor Sir R. Malina; Mr. Justice Kesting; the Presidents of the Medical Council and of the Royal College of Physicians; Sir C. Locock; Sir R. Alocck; Sir Dennisic Corrigan, M.P.; Mr. Gregory, M.P.; D. Brady, M.P.; Mr. H. Lewis, M.P.; Mr. Dalympie, M.P.; Dr. Brady, M.P.; Chonel Berestord, M.P.; the Master of the Society of M.I.; Colones Derestord, M.I.; the Master of the Society of Apothecaries; the Treasurers of St. Bartholomew's, King's College, St. Thomas's, and University College Hospitals; Pro-fessors Owen and Tyndall; the Prime Wardens and Masters ressors owen and Tyndan; the Frime wardens and Masters of some of the City companies. About 100 guests sat down to a splendid entertainment, and, owing to the length and number of speeches, did not separate until a late hour.

INAUGURAL ADDRESS DELLARDED BEAUDA ARE

OBSTETRICAL SOCIETY OF LONDON.

By J. BRAXTON HICKS, M.D., F.R.S., President of the Society.

GENTLEMEN,-The pleasure which I feel at the honour you have done me in electing me your sixth President, for which I return you my best thanks, is by no means unalloyed; because I feel, as those who have preceded me in this chair have felt, the responsibility which attaches itself to those holding the position of the head of a Society which, instead of meeting for the discussion of theory or hypothesis, devotes itself to the accumulation of facts, and to the extension of improvements in practice, based on the information so obtained; and because it deals with the questions of life and death, it behoves it on all occasions to act with the serious thoughts such responsibilities demand, and to pursue with an earnest honesty of inquiry the important truths which it is its object to secure.

The anxiety which fills me at the present moment is not decreased by the remembrance of the crises through which your former Presidents have guided you; it is not diminished by the consideration of the importance of the subjects which by the consideration of the importance of the subjects which you undertake to advance, and which already within the lifetime of the Scotiety have been so rapidly and successfully carried forward; but when I look onward, and see how wast a field still remains—I will not say altogether untilled, but capable of much higher cultivation—when I see the want of proper recognition of our department by many of the examining bodies, I feel I shall require all your assistance and all your kind considerations to overlook my failings on the one hand, and to give me your support on the other.

There is no need, after the remarks which fell from your

late President at our last meeting, to allude to the past progress of the Society, let me rather direct an Association pledged to advance, to examine and reconnoitre the country well in front. And not only has each department in science and art to make absolute progress, but it has constantly to acquaint itself with the progress of kindred sections, and simultaneously to adapt all its parts to the changes and advances incessantly occurring.

For I need scarcely add that nothing can tend more to cramp the mind than constantly to pursue one object, alone and unassisted, with one's eye directed neither to the right nor the left of one's own track.

The Medical Profession is strictly one and entire; the only excuse for its division into departments is that its field is too vast and entire for individual exertions to cultivate it up to the perfection required by modern discoveries. Each branch and personaum required by modern discoveries. Each brained is so intimately connected with the other, that serious loss is suffered if but imperfect communications be promoted between them. We to that branch which, while journeying its own way, though apparently advancing, forgets to make use of the discoveries of its fellow workers!

Let us, then, individually as workers, and this Society as the hive, earnestly endeavour to gather whatever is useful to us from every field. Our labour will be sooner or later recognised. Let us forget to do this, and we shall justly be regarded as " specialists "

"specialists" in the sinister sense of the term.

It is well to call to mind the object and value of a society. As I understand them, the objects proper to such a Society as this may be comprised under three heads—the scientific, the this may be comprised under three needs—the scientific, the practical, and the political. I place the scientific and practical first, before the political, because the latter object will nearly cease when the department has received its due attention in the Profession and the State; and, indeed, strictly speaking, a Society like ours should give far greater attention to the acquirement of knowledge and improvement in practice than to the external status of the subject, because it is by true advance in the former that the liberal recognition of the importance in the romer that the liberal recognition or the importance of obstetrics will be ultimately secured, though it may be but tardily. Now, the value of a society embracing scientific and practical sections is this:—

1st. That it gives all those joining it a certain amount of interest in the subject. To some it is a strong stimulus-and interest in the subject. 10 some it is a strong summus—and this is particularly important as regards the younger members, for in them we find the greatest energy and capacity for work; so that, a definite direction being given, a result is obtained which would have been wholly wanting had no such excitement been present.

ment been present. Then, in the second place, a society forms a means of inter-communication of ideas, and I would appeal to any Fellow of this or any other society whether the attendance on a single meeting had not in some way or other tended to enlarge his own knowledge by the information thus obtained; or had his reflective powers stimulated by the hint and suggestions thrown out informally by the various speakers. There is another and third way in which so-civities of this lates to vicinity labour. It seems to me that the learned societies of

kind act benencially—hamely, in chaoling us to sequire know-ledge by joint labour. It seems to me that the learned societies have not sufficiently availed themselves of the power that association gives them. It is true that some do make efforts in this direction; but it is questionable whether any society has carried out this principle to the extent it might have done carried out this principle of the extent it might have once towards the acquisition of knowledge. How many facts are there, the collection of a sufficient number of which is impossible by one person, but which would be easily gathered by many? Take, for instance, the effect of zymotic diseases in the puerperal woman. We want information from those engaged in general as well as in consulting practice. The information in general as well as in consultang practice. The information derived from one will supplement that obtained from the other; but as these cases occur to too limited an extent in any single practice, the collection of the experience of a number, by means of a society, is a most efficient and ready method of bringing together facts sufficient to enable us to arrive at a safe contogether racus sufficient to enable us to arrive at a safe con-clusion. Numerous similar instances will readily occur to your minds. If you but carefully consider the vastness of the subjects embraced in our department, of which we have at present only an imperfect knowledge, you will, I am sure, agree with me, that it argues but a partial sequatanane with the facts to say the "mine" of any Medical subject is at all "worked on!". " worked ont

But although I would place the political aspect of this So-ciety last, this is not because it is not important; on the con-trary, the position which obstetrics take in the Profession is of great importance, both to the Profession and the public; because if the subjects it embraces are considered merely as an appendage to the Medical education, to be followed or not according to taste, and not as an integral portion of that education, it is not likely that those entering the Profession will consider it of any importance, at least not worth the trouble consider it of any importance, as reast no wheth the trouble of additional work. As a matter of fact, students attend to those questions likely to be put at the examinations; it is only a few who have the foresight to recognise its subsequent advantage to them in their after career, and it is not everyone of those who have the energy to add to their other studies one which is not absolutely required. It might be thought by many not concerned with the real state of obstetrics, as shown by the position it holds at the examinations, that this branch of Medicine had of late at least been fairly represented in the requirements of examining bodies. Let them, therefore, judge from the following statement:—The only compulsory examination in Obstetries is given by the Society of Apothecaries. The College of Surgeons, although it has a separate examination for the licence of midwlerey, does not examine in the subject for the diploma of Member. It is true that candidates lectures on midwifery, but this is all. It requires no attendance of cases of labour, nor does it require any general knowledge of diseases of women. Thus it will be seen that it is only through the Societies of Apothecaries that any requirements made of knowledge of obstetrics.

But none of the examiners, though gentlemen of excellent report, hold any appointment of an obstetric character in any branch, while the requirements on the schedule are only a three months course on midwifery and disease of women, and the attendance on twenty cases of labour. But what is a Market month of the schedule are only a three months owner, and the attendance on twenty cases of labour. But what is a As a lecturer myself. I can answer that it requires a considerable amount of ingenuity to condense even midwifery proper into three months. It is quite impossible to do justice to the subject of dystocia in so short a time, and as for the diseases of women, it is never attempted in the three months' course. To treat of the perilous operations of midwifery in a manner To treat of the perilous operations of midwifery in a manner months' course, taken in conjunction with the description of the cases requiring them. It may thus be seen how much time can be spared for the diseases of women; and the chance of a student obtaining any knowledge of the subject depends entirely on the few clinical lactures his teacher may be enterposited to the control of the control of the control of the course of the control of the control of the control of the control of the course of the control of the contro

Hospital has no obstetrie teacher at all. Is it to be wondered at that the student, as a rule, takes less interest in this department than in many others, when he sees the subject so little regarded by the leaders of the Profession? And thas it is that gentleman go into practice deficient in that want of the procession of the control of the procession. And that it is that gentleman go into practice deficient in that want, and is which the public report him to be the bost informed. Those who present themselves for the voluntary examinations of the College of Surgeons—I mean for the licence in midwifery—do, of course, prepare themselves more thoroughly, and, as the examiners are obstetricians, it will be no fault of the College if the candidates slip through. The College of Physicians and the University of London. But to what number will this apply? Only between fifteen and twenty pass the L.M. of the College of Physicians cannot pass many more for their two degrees, and the University do but twenty per annum. Superson the College of Thysicians cannot pass many more for their two degrees, and the University about twenty per annum. Superson the College of Surgeons—It College of Disposition that the other pinches of the College of the College of Disposition that the college of the College of the College of Surgeons. The College of Disposition that the college of the College of College of Surgeons. The College of Disposition that the College of College of

Apothecaries.

But it may be asked—and, indeed, it has been asked—What is there in obsettion which entitles it to claim the third department in the healing art? I would answer—For the same reason that it was found advisable to separate Surgery, or the study of those diseases which require the use of the hand, from those which do not require manual interference. There is no reason derived from the nature of the thing why the two should be separated mentally or physically; but it is found, in order to develope each to the utmoot of human power, that a more practice. The one is not really; interfer to the other, although they excrete different and, to a certain extent, opposite qualities of the mind. The Surgeon employs his senses of sight and touch in excess, his spind is exercised rather on the concrete; while the Physician employs his senses of such and bearing, his mental powers are exercised rather on the concrete, while the Physician employs his senses of touch and hearing, his mental powers are exercised rather on the general, and there is a greated elemand on his inductive powers, in consequence of the difficulty of reaching the deeper organs of the odd, or of the difficulty of reaching the deeper organs of the backing art, although conveniently separated in the larger towns and Hospital practice, cannot rightly be practised separately without the practitioner of the one possessing a very

extensive knowledge of the state of the other. In practice they constantly are intercurrent; and much and serious detriment would occur to the patients of either section if the attendant of the one were neglectful of the state of the other.

For the same reason it is argued that obstetrics should be divided from what is called Medicine and Surgery so far as these latter are from one another, but no farther. Each at cortain points overlaps the other, but at the same time each takes a ground not occupied by the other. Obstetrics takes a take a ground not occupied by the other. Obstetrics takes a sale aloarly as that of Medicine or Surgery, not quite overtainty in the grasp, but enough, and more than enough, to occupy the attention of those who study if. And it is notion that it is found, and practically acknowledged to be, so great an addition to the work and researches of the Thystian and Surgeon practice.

tising purely that these have given up its practice to others.

But is the work thus handed over to others so small that it may rate with ophthalmic or dental Surgery? Let anyone regard its scope—its application to a large portion of half of the race, and to each one of these many times during her life; to the process by which the race of man is sustained, involving changes in the uterus, having no parallel in any other organchanges in the uterus, having no parallel in any other organ— let anyone consider the important questions which arise in consequence of any interference with Nature's arrangements, him further observe the influence the organs, both in the preg-nant and unimpregnated state, possess on the general health of the individual, both morally and physically, to an extent not at all approached in the other sex. The large sympathy which these organs had with the other organs, and with the nerrous system in general, the high exaltation of the emotions in women, as well as the influence these possess over the sexual organs, and vice verse, combine to make it highly important that the study of the influence which the uterus has upon these other parts should be accurately known, so that, on the one hand, the sexual organs should not be unduly blamed, nor, on hand, the sexual organs should not be unduly bisance, but, on the other, their enormous influence more or less ignored. Nothing but thorough study can place this on its true basis, and this study legitimately falls under the province of the obstetrician. It may, I think, be safely affirmed that a woman, whose uterus and appendages are in a state of perfect quietude, tending to the asexual condition, is very like to the other sex in general character, if we add a slightly increased susceptibility of the emotions; but she is almost a different being to one whose uterus and appendages have, for a long time, been in a state of highly-excited sensibility. The investigation of this state and of its cause is best carried out by those who have had numerous opportunities of seeing woman under all the vast disturbances she is subjected to in consequence of pregnancy and parturition.

in there occur, in the neighbourhood of these organs, tumours, the resemblance to which is not found about other organs, requiring great care and skill in diagnosis—I mean extra-uterine featation (than which few things are more difficult of detection), hematocele, and inflammatory swellings of great size. The discases of the other viscers are not so complicated; their number is definite, and, therefore, in diagnosis one has only to discriminate between a known series. Not so with the uterine organs; and as the tumours of the sexual organs and the about of the discussion of the various stages of pregnancy, and it is automatical, also of the discusses of the various abdominal viscers in indispensably requisite to make an accurate diagnosis.

Again, insamule as parturition is liable to be attended by

Again, insamuon as parturition is natic to be attended by various lesions, such as rupture of the uterus and of the perinenm, each of which is best treated (if at all) directly after the accident, it is needful for him to know how to perform castrotomy, and to close the ruptured perineum.

form guatrotomy, and to close the ruptured perineum. Besides these requirements, it may be necessary to perform Cesarian section, and as the operation requires a practical knowledge of the anatomy and habits of the pregnant uterus, it is clearly more advantageous that the operation be undertaken by the obstetrician. The management of the external wound is by far the most simple portion of the process. Besides, if it be performed jointly by Surgeon and obstetrician, there is always an opportunity for mutual blame. These arguments would be gratuitous were it not that the rigid line marked ont between the divisions in the healing art in this metropolis renders it necessary to explain where one would think, a privari.

no explanation would be required.

And, forasmuch as hemorrhage may be fatal, it is also

necessary that obstetricians should be able to transfuse; indeed it is principally by them that transfusion has attained its present position.

Then, there is the disputed land of ovariotomy, which, after the external incision, is as much obstetric in the knowledge required as any portion of the department; and the detachment of the adhesions, etc., is more after the manipulation practiced by obstetricians than of Surgeons, imitating closely the mode of detaching the placents when adherent.

Besides, there is another reason, and I think of much importance, applicable to this operation, and probably capable of general application—namely, the disadvantage to the patient for the operation to be undertaken by a person not responsible for the diagnosis. Now, as the diagnosis is on all sides best made by the obstetrican, and the suitability of the performance settled by him, it is much better that the same person should In all cases of equal severity there are, when things are nearly evenly balanced, small circumstances which would have much influence upon ourselves in determining whether we should do the operation or not, but which we should feel to be probably insufficient to guide another's action. For instance, the diagnosis may have a degree of ambiguity about it, and yet the patient may be sinking rapidly. We might consider an exploratory incision justifiable, and would carry it out ourselves; but another might not think so, or would not care to run such risks. This objection to divided responsibility holds good in all cases, though the instances are less severe generally than ovariotomy; but the removal of the futus through the abdominal parietes is perhaps even a more marked example of the dangers of double direction.

Of course, in ovariotomy the Surgeon could study obstetrics, so far as it bears upon the diagnosis, but he would have to go farther into obstetrics than the obstetrician would have to learn

of Surgery.

Bosides, the existence of suppurations in the pelvis, and their difficult diagnosis, must require a knowledge of the pelvis organs under all their varying conditions, mainly seen by the obstetrician; he is, therefore, obliged to pay attention to the habits and treatment of abscess elsewhere; but his obstetric

knowledge is as necessary here as in other cases. Thus it is that, although it has essentially a separate from Medicine and Surgery, yet obstetrics requires both Medical and Surgical knowledge, the cultivation of all the senses, particularly of touch, combined with manual dexterity, carried out with extreme gentleness and endurance; and it demands the exercise of the inductive faculties to the same extent as is required by the Physician, but perhaps not so frequently. For these reasons, and many others, it is argued that obstetrics holds a distinctive position from Medicine and Surgery, sufficiently great in extent and importance to rate along with them, and it as but a logical conclusion that, so far as these two are held separate, so should obstetrics be held, but no farther. If these two are placed together, either in a society or in the examinations, then, logically, should this be conjoined; if, however, it is considered advisable to separate them, for perfection of study and convenience of examinations, then the three should be

and convenience of examinations, then the three should be expansed; but always united in spirit. If each action would remember that it exists, not to exalt itself, but to contribute to general progress! What advantage can it be to depress any one of the sections? The depression of one is by so much the depression of the whole—the carishment of one the exaltation

of the whole.

Can neither Medicine nor Surgery gain anything from the facts observed by obstetricians? If they have not, then it is because they have not looked. The aspects of nature in health and disease are so various, and human knowledge, unfortunately, so imperfect, that we can afford to lose nothing in the way of information; and our progress is quickest when we stimulate each branch to its highest point of attainment.

I hope, gentlemen, that this Society will not be a loser by placing the Presidency in my hands; I should have great misgivings did I not recollect that, after all, the progress of a society depends far more on the enthusiasm of the individual Fellow than on the assistance given by its President-the former is a constant stream, the latter only intermittent at best.

WHAT'S IN A NAME ?- The Boston Journal of Chemistry WHAT SIN A NAME:—And DONOR JOINTAIN Of Commercy reports as among its subscribers—Dr. Death, Dr. Slaughter, Dr. Dye, Dr. Coffin, Dr. Toombs, and Dr. Graves. This sombre list is lighted up by Dr. Life, Dr. Strength, and Dr. Joy. Dr. Drinkwater just balances Dr. Rumn on the liquor question.

NEW BOOKS, WITH SHORT CRITIQUES.

- 1. Does it Pay to Smoke? 2. Does it Pay to Drink? Pamphlets. William Tegg, Paneras-lane.
- . . Mr. Tegg has rendered good service to the public by the reproduction of these two "brochures" from American periodicals. They will, no doubt, be extensively read in this country, and no one can deny that they contain a vast amount of information written in a pleasant manner. They are additional examples to the many we have of the way in which the above subjects—" smoking and drinking "—are treated; they form no exception to their predecessors in taking a one-sided view on the matter in question. We still require a work that will deal broadly and impartially on a very important problem. wait deni troudly and impartially on a very important problem. Unfortunately, writers upon "smoding and drinking," as a rule, have treated on the abase and not the use of "alcohol" and the "weed." To denounce either generally when properly used, is quite as abased and impracticable as to advocate as excessive use of either. The writers of the above treated as the contract of the however, accept the moral they draw without very grave and very large modifications.
- A Treatise on Localised Electrisation, and its Application to Inthology and Therapeutics. By Dr. G. B. Duchenne, (Translated from the third edition of the original by Her-RERT TIBBITS, M.D., L.RC.P., Medical Superintendent of the National Hospital for the Paralysed and Epileptic. Part I. London: Hardwicke. Pp. 322.
- . The present part of Duchenne's valuable work is, in a great measure, occupied with notices of the various means of producing galvanic and electric currents, and of applying them to the living subject. But there are also some very important hints as to the value of electrisation by reflex action, on localised faradisation, on the therapeutic value of galvanisation by interrupted and continuous currents. The part of the work to be next published promises to be of more immediate use to the practical man. It will deal with traumatic paralysis, fatty atrophic paralysis, subacute general spinal paralysis, progressive muscular atrophy, pseudo-bypertrophic paralysis, progressive locomotor ataxy, and labio-glosso-laryngcal paralysis. We would note that the translator's work seems well done.
- The American Journal of Syphilography and Dermatology. Edited by M. H. HENRY, M.D., Surpeon to the New York Dispensary, etc. New York: Christern.
- • This magrazine, which is a quarterly production, has just entered on its second year. It is well managed, and its articles are fairly good. The present number contains, among ARRIGAR ARE HARD FOR THE METERS ARE ARE THE STREET AND A STREET ARE A STREET AS A STREET A
- The New York Quarterly Journal of Psychological Medicine, for January. New York: Appleton and Co.
- . The number before ns contains some most interesting material beyond that to which we have already alluded. Dr. Hammond's lectures on Diseases of the Cerebral Nervous System are especially worthy of attention. It also contains, besides a great variety of selected material, an interesting case of Hydrophobia, narrated by Dr. S. G. Cook.

DR. JOHN BREAKEY, R.N., who has proceeded to sea in the Enchantres, in attendance on Mr. Childers, entered the navy in April, 1854, ou board the *levelope*, 16, and proceeded to the Cape of Good Hope, and in July, 1857, removed to the Emperor-steam yacht-intended as a present from her Majesty respector—second yacon—intended as a present from her Majesty to the Emperor of Japan. He became a Surgeon in July, 1863, served in the Buil 1647, 6, on the North American and West Indian Station, from 1864 to 1867, add from the latter date until August, 1870, served in the Scropia, troopship.

STAY AT HOME .- Several Russian Physicians have warned their patients not to travel abroad, as already some Russians, including the Ambassador at the Hague and another diplomatist have died in consequence of infectious diseases contracted by travelling in railway carriages which had been used by the sick and wounded in the war.

PROVINCIAL CORRESPONDENCE.

LIVERPOOL.

February 14. Is the return which I made three weeks as of the cases and anallayers, 14.7, which, up to the 8th such received into the Ashfold-street Temporary Hospital, the number of deaths was stated to be 37, or 1 in 4. Since that time, 8 others of the patients had died; of whom 5 either stated that they had herey been vaccinated, or preo either stated that they had never been vaccinated, or pre-sented no evidence in the shape of the slightest cicatrix of the operation having been performed, 2 had each only one slight mark, and of 1 there was no report as to the state of the arm.

From January 9 to February 9, both inclusive, there have been received into the same institution 177 additional cases, the returns for 163 of which I have been enabled to examine, through the courtesy of Mr. Hagger, the Vestry Clerk. Up to the 9th inst. there had been 33 deaths out of the 163, or about 1 in 5. This proportion will doubtlessly require modification in consequence of mortality in some of the more recently admitted cases. The distribution of the deaths bears the same mitted cases. The distribution of the deaths ever time same conclusive testimony to the general value of vascination as it perhaps the perhaps that the perhaps are successful to the perhaps that this more readily appreciable than any other method. In the subjuscine table, the first column centains the report as to the state of the arm, or whether vaccination had been performed or not; the second, the numbers with such a state of arm who were under treatment; and the third, the

Condition as to vaccination.	Cases treated.	Death	
Not vaccinated, or presenting no tra	ice		
of cicatrix	. 35	16	
No cieatrix, but said to have been ve	nc-		
cinated	. 6	1	
Having one small cicatrix	. 18	6	
large	. 19	0	
, two small cicatrices .	. 8	2	
" " largo "	. 52	4	
, three , ,	. 17	0	
fonr	. 4	2	

Concerning two, no report as to the state of the arm was given. One of these died. Another had been vaccinated six days previously, the vesicles from vaccination and the variolous eruption going on together. Of the two who died, having four large cicatrices, I observe that one was sent from the Fever Hospital, and presumably, therefore, had recently been the subject of another epidemic disease. It is more than probable that the debilitated condition in which many of the patients are left by a recent attack of relapsing fever contributes to the high mortality which characterises the present outbreak. This high mortality chiefly affects adults, or at least those above the age of infancy. So markedly is this the case that, in the week ending February 4, in which the highest number of deaths ending February 4, in which the highest number of deaths from small-pox was registered during the present rejidence, the percentage of infant mortality, which in Liverpool is usually very high, fell from 24-1 in the previous and the state entire quarter of 1570, to 10-1, and 150 per 15 numbers in the three preceding weeks having been 35, 65, and

51, respectively.

The most prompt and energetic measures have been taken The most prompt and energence measures have been casen by the authorities. Vaccination stations are opened daily, and every facility is given for the revaccination of those over 12. In the West Derby district the paid inspectors con-tinue to make a large number of visitations daily, with the result of bringing up many defaulters, though the number of these is rapidly decreasing.

A SURGEON'S GIFT .- At the meeting of the Governors of the Queen's Hospital, Birmingham, last week, the chairman announced that Mr. West, one of the honorary Surgeons, had, as "a feeble expression of his goodwill to the institution," sent a donation of £20.

GENERAL CORRESPONDENCE.

BOMBARDMENT OF THE PARIS HOSPITALS BY THE GERMANS.

NOTE FROM M. P. GIRALDES.

[To the Editor of the Medical Times and Gazette.]

Monsreun Le Rédacteun,-Le siège de Paris a permis de constater comment les armées allemandes remplissent les conventious internationales. Pendant le siège, ces armées se sont fait remarquer par le mépris le plus complet de la Convention Internationale de Genève.

Le drapeau parlementaire à Croix Rouge—drapeau de Genève—a sourent été employé à couvrir des wagons et voitures des munitions et des vivres.

Les chirurgiens et les ambulanciers ont été très-souvent fusillés par ces messieurs, plusieurs ont été blessés, et l'un est mort de ses blessures.

Le képi brodé des chirurgiens était une mire pour ces messieurs.

Les chirurgiens pris étaient renvoyés en arrière, sans leur permettre de rentrer; cela c'est vu plusicurs fois au Bourget, en particulier dans la personne de l'Aid-Major Gonthier.

Enfin, pour couronner l'œuvre, du consentement de M. le Chancelier de la Confédération de l'Allemagne du Nord, le Chef de l'Etat-Major Général des armées de la même Confédération, a fait intentionellement bombarder les ambulances et les

L'Hôpital Militaire de Val de Grâce, très-reconnaissable par son dôme élevé, couvert du drapeau à croix rouge, a reçu dans son enceinte 92 obus de 14 à 22 centimètres de diamètre.

Les ambulances du terrain du Luxembourg, furieusoment bombardées pendant la nuit, ont du être evacuées à la bâte pen-dant une nuit froide, au milieu d'une pluie de projectiles.

L'Hôpital de la Pitié a reçu 100 obus. On a du l'évacuer-

l'hôpital n'était pas tenable. Le Hôpital de la Salpétrière a été bombardé. Il en est de mêmo de l'Hôpital des Enfants, le Necker, et l'Ambulance des

Jeunes Avengles: cesétablissements, très-visibles des batteries de Meudon, maigré le drapeau qui devait les garantir, n'ont pas trouvé grace devant ces sauvages. Cos dignes Enfants de la Germanie, aujourd'hui en plein armistice, volent et pillent les maisons des environs de Paris, complétant ainsi leur caractéristiques sauvages et voleurs.

Tels sont les faits qu'il est bon de faire connaître au monde médical, afin de leur permettre d'apprécier le degré de civilisation de ces germains. Paris, ce 5 Février, 1871. P. GIRALDES.

[TRANSLATION.]

Mr. Editor,—The siege of Paris has enabled us to judge how the German armies fulfil international agreements. During the siege, these armies have been notorious for setting completely at nought the International Convention of Geneva.

The flag of truce with the Red Cross-the Geneva flaghas often been used to protect waggons and carriages of ammunition and stores.

Surgeons and ambulance men have often been fired at by these gentry; many have been wounded, and one has died of his wounds.

The embroidered kepi of the Surgeons was a mark for these gentry.

Surgeons, when captured, were sent to the rear, and not allowed to return to their own lines; this happened many times at Bourget, particularly in the person of Aid-Major Gonthier.

Lastly, to crown the work, with the consent of the Chancellor of the North German Confederation, the General-in-Chief of the armies of that Confederation has wilfully caused Hospitals and Ambulances to be bombarded.

The Military Hospital of Val do Grace, very distinguishable The Mintary Hospital of val do Orney, very using quisangle by its lofty done, and surrounted by the red-cross flag, has received within its enclosure nincyt-two shells, of 14-22 centimetres in diameter (about 6 to 10 inches).

The ambulances in the Luxembourg grounds were furnous bombarded at night, and obliged to be hastily empired during

a cold night, amidst a hail of projectiles.

The Hospital of La Pitić received 100 shells. It was obliged to be emptied; the Hospital was not tenable.

The Hospital of La Salpétrière was bombarded. It was the

same with the Hospital of the Eufants Malades, the Necker, same with the ground of the Annaham analoss, the 'except,' and 'ye with the annaham and the annaham and the annaham and the annaham an characteristics.

Such are the facts that ought to be made known to the Medical world, in order that they may estimate the degree of civilisation of these Germans.

P. GIBALDES.

. It is not the English custom to condemn without hearing both sides; therefore, we must suspend our verdict as to the charge of selecting Hospitals as special marks for German shells. The whole English nation is profoundly penetrated with the sufferings of the French; but we may ask, Why did not the educated classes (of whom our estimable confrère is one)-the Physicians, lawyers, clergy, and men of property-raise their voice seven months ago against the idea of the war? It was Paris that made the war; the political agitators, newspaper scribes, traders in sedition, the most fuxurious, most thoughtless, and politically incapable people in the world, who then, in the midst of a vast national disaster, upset the government which had given France twenty years of unexampled prosperity; and to what end? -in order that they might fall into the hands of the imbecile Favre, the half-monkey, half-Jew Gambetta, and the half-dervish, half-brigand Garibaldi! We hope our French friends will wake up, establish a strong government and be loval to it, and cultivate the resources of their magnificent country, and leave their neighbours alone .- En.

REPORTS OF SOCIETIES.

THE PATHOLOGICAL SOCIETY. TUESDAY, FEBRUARY 7, 1871.

Mr. HILTON, F.R.C.S., President, in the Chair,

Mr. Balmanno Squine pointed out certain cases of Skin Disease of rare occurrence. One was a case of pemphigus of the mouth—a very rare form of the disease. Its nature was confirmed by a similar cruption on the scrotum. The next patient was a woman, between 50 and 60, suffering from ecsems. She had had several attacks, the last one persisting for a year; for the last two months, cauliflower excrescences had been developing themselves on various parts of the surface. There was no history of syphilis. The case resembled eczema when it attacked the lower lip, but there was no scab bere. The third case was one of herpes zoster of the right forearm and hand, stopping short at the albow. The case was opposed to the view that herpes zoster followed the course of nerves. In point of fact, the cruption often covered several ribs and intercostal spaces. Here, both the outer and the

inner aspects of the arm were affected.

Mr. Holnes (for Dr. Martin) exhibited a photograph and sketch of a young man whose hands and feet were affected in an extraordinary manner. The patient, though 28, was only four feet in height. His legs were very short, and there was four feet in height. His legs were very snort, and there was hardly any growth in three years. He was born quite perfect, and remained so for eighteen months, after which the first phalanges of his fingers began to enlarge and to grow steadily from their bony centres. They in time became globular, the from their bony centres. Iney in time became giorouar, use right hand being larger than the left. They were so unman-ageable as to require support. The thumbs were but little deformed. Pissures existed between the various phalanges. The larger hand weighed 10 lbs. He thought the origin lay in expanded consises. The patient would not submit to any operation, and died of gangrene of the right hand. The feet, which in this case were also affected, but less so than the hands, rarely suffered, and so also of the thumbs. He had exhibited a case somewhat similar some years ago. The disease looked enchondromatous, but contained no cartilage cells.

Mr. W. SPENCER WATSON exhibited a small Ivory Exostosis, which he had removed from the upper and outer quadrant of the left eyeball, where it lay attached by a cartilarinous base to the selerotic, midway between the external and superior recti. No similar case is on record, but it is possible that some of the recorded instances of ivory exostosis of the orbit of large size may have originated in small growths similar to the

one exhibited

one exhibited.

Mr. HUKER exhibited some preparations and drawings of Rodent Ulcer of the Face. It had been said that such were made up of connective tissue only. He had found something more, for in most of the hardened masses he had found bodies like the cells of the rete-mucosum in some parts assuming a scab-like appearance. One occurred in a female, aged 69, who had an ulcer of the cheek presenting the usual characters, but had an ucer of the eneck presenting the usual constructors, our having no glandular enlargement or constitutional cachezia. having no glandular enlargement of the same and the matter. The next occurred in a male, aged 62. The disease was of long duration, and extended from the month to the car. There was no glandular affection, and no cachezia. The parts were cauteried after removal of the diseased tissue.

were cauterised after removal of the diseased tissue.

Mr. Dz Monara considered these remarkos great importance,
as many had tried to separate these truncurs, or rather ulcers,
from cancers. Mr. Moore had considered them cancerous, and
Mr. Hulke had shown that they partoon of the nature of the
epithelions. They act similarly. It would be well, hethought,
to canninc the subject that they parton of the continue the subject to canninc the subject to canninc

which other malignant diseases may be phases.

Mr. HULKE next showed a specimen of Polypus of the
Rectum, differing much from ordinary samples. The polypus
was removed from a young woman. It seemed to consist in was removed from a young woman. It seemed to consist in the centre of a fibrous stroms, outside of a papillary growth, covered by several layers of squamous epithelium. They generally looked glandular.

Mr. Sinsey Jories had been struck with the scanty number of such polypi recorded. He had removed fifteen or twenty during the last fav years. He was of opinion that they were often overlooked, and that they might be spontaneously cured. He had examined about six of those removed. Some were

fibro-cellular merely, others glandular.

Mr. Arnorr said he was present when Sir W. Fergussor removed an unusually large one, last year. It was the size of a cricket-ball, and had a long pedicle. Its central portion was fibro-nuclear; outside this were branching papille, and the whole was covered by epithelium. Another of the same kind had been removed by Mr. Quain.

Mr. Holkes said a similar specimen had been exhibited by m. This had been partially removed several times. He did not think villous masses were very uncommon in that situation.

Mr. Hulke, in reply, said the papillse in his case were like

those of the skin

Mr. Arrorr next proceeded to exhibit a Blood Tumour of the Scrotum, of doubtful origin. It had been removed by Mr. Quain from a Spanish gentleman, who could only speak English imperfectly. It seemed of slow growth, from the bottom of the scrotum upwards. When seen, there was a large swelling, very heavy, tense, and with a smooth skin. When tapped, a small stream of thin, brown fluid came away, and when the whole was removed it was seen to consist of a chocolate-coloured material, surrounded by a thick-walled cyst. On examination after removal, the testis was found perfectly healthy in the midst of the mass.

Mr. WEEDEN COOKE thought it well to draw attention to the fact that, as matters were now arranged, it was impossible to

e specimens in time to speak on them.

Mr. Holkes pointed out that they might be exhibited a quarter of an hour before the time of meeting. It rested with

quarter of an house the same of smeaning members themselves to carry out this arrangement.

Reports from the Committee on Morbid Orowths were read by Mr. Fick; one on Dr. Payne's specimen of cancerous thyroid, quite agreeing with the description given by the author; also on Dr. Dickinson's tumour from the lumbar glands. The

also on Dr. Dickinson's tumour from the lumbur glands. The advanced growth was complicated with the existence of crysts. Dr. Allamer's their proceeded to above certain Microscopic Dr. Allamer's their proceeding to the proceeding their proceeding the proceeding the proceeding the proceeding the proceeding the tetanus. They were taken from four cases, all traumatic. The first patient suffered from laceration of the skin and injury to the ankle. The cord was soft in many parts, especially in the upper portion of its course. The posterior tibial nerve was removed, and its sheath found full of post. The second was a girl, who lacerated her finger. The nerve of the forearm was not examined. The third patient had been operated on by Chopart's method. The cord was soft in the dorsal region, and a clot was found in the lumbar enlargement. The sheath of the posterior tibial was full of pus. The fourth case was one of compound fracture of the leg. The cord was soft chiefly

in the dorsal region, and there were some hemorrhages throughout. Dr. Allbutt said that in all the cords changes were observed. especially softening. In two there were hemorrhages, the bloodvessels were distended, thickened, varicose, and plugged, and there were spaces round these vessels, either full or empty. There was also proliferation of epithelium in the central canal, which was stuffed with it. There were changes in the connective tissue of the cord, and washing out of cells in the anterior cornus, where also small yellow lumps were to be seen, as of motor cells degenerated.

Dr. Dickinson had found the same condition of bloodvessels. The thrombosis was difficult to make out after soaking in

chromic acid

Dr. Moxox had never seen anything like inflammation; the weasels were often full, but there was never anything like thrombosis in the specimens be had seen. The cord was often There was no thickening of the membranes or anyanemic. There was no thickening of the memoranes or any-thing like lymph in those he had examined, but he had seen epithelium preliferated in the central canal. He thought the tetanic condition due to irritation, not to any distinct change, as in the cases which recovered no paralysis was left, and death

resulted from over-action, not from impaired action.

Mr. Hulke had seen a softened condition and hemorrhages. Dr. Dickinson had also seen undoubted histological changes. In one case there were large swellings, and in their centres effused blood. He had never seen inflammation, but venous

congestion merely or outbursts of blood, causing injury to the He thought the bad cases all died.

Dr. Moxon said the swellings might be produced in removal

of the cord.

Mr. Houses asked if inflammation might not give rise to tetanic symptoms, and cited a case of inflammation following operation on spins bidds as an example.

In reply to reply to Mr. Barwell, Dr. Dickinson said that chronical caid tends to cause severaling rather than confraction of the cord.

Mr. Lange words of reply from Dr. Alazurr, the meeting

adjourned.

NEW INVENTIONS.

MESSRS. GEORGE W. FOX AND CO.'S PATENT PALATABLE COD-LIVER OIL, PALATABLE COD-LIVER OIL WITH QUININE, AND PALATABLE CASTOR OIL.

CASTOR Oil.
We have tried these preparations on rather an extensive scale
in a public institution for the reception of the consumptive.
Our experience leads as to believe that they are fully equal
to the best natural cod-liver oil in northibus and medicinal qualities. Some patients have taken the palatable codliver oils for a month together, and have steadily improved
the consumption of the confidence under their use. The cod-liver oil with quinine we have found to be a valuable preparation. Its taste does not disgust the patient, it agrees thoroughly well with the stomach, and the patient, it agrees thoroughly well with the stomach, and we have seen that it tends to increase appetite and to give strength and flesh. We think that patients who have got accustomed and inured, so to speak, to the taste of ordinary cod-liver oil, are not in the most favourable con-dition to appreciate the palastable oils. But for patients by when the strong flashy taste of cod-liver oil list theroughly also the strong flashy taste of cod-liver oil list the throughly also the strong flashy taste of cod-liver oil list to be the con-plex of the strong flashy taste of cod-liver oil list to be the com-liner oil large oil large oil large to list to prove a boom As we have hinted, the cod-liver oil with quinine has been most approved by those patients on whom we have tried it. It rises but little, and it nudoubtedly is an excellent form in which to prescribe two of the most useful curative agents in the modern Materia Medica. The palatable castor oil is a useful, not disagreeable, and safe laxative.

COMPULSORY VACCIMATION OF THE POLICE.—On Tuseday, Colonol Henderson issued an order that all the officers and constables in the Metropolitan Police Force should be immediately revaccinated by the Divisional Surgeons. In case of any individual declining to comply, he would be at once called npon to resign.

one was the second of the principle of a spring bod a usual feotated has been invented by Mr. Burnell, lof the United States. As motion is dear to infant life, a nurse with a baly upon her knee con dance a child with great facility by the use of the spring footatool. No doubt the idea will soon be adopted in England.

IMPRUDENT .- Promising your Do tor a legacy !

MEDICAL NEWS

ROYAL COLLEGE OF PHYSICIA N + LONDON.-The undermentioned gentleman passed h mary Professional Examination on February 7:—

Coffin, Bichard James 3 attland.

APOTHECARIES' HALL. - The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practice, on Thursday. February 9, 1871 :-

Cooper, George Joseph, Daere-park. 1-v., S.E. Bobinson, John Desborough, Systo., Leicestershire.

The following gentlemen also on the same day passed their First Professional Examination:—
Dunn, William Allison, 8t. Rartholomew's Hospital.
Jenkinson, Harold, Leeds Hospital.

MILITARY APPOINTMENTS.

16TH FOOT.—Surgeon William Armstrong, having completed twenty years' full-pay service, to be Surgeon-Major, under the provisions of the Royal Warnant of December 20, 1870.

Warrant of December 20, 1870.

San Foor.—Staff Assistant-Surgeon James Bennett Kelly, to be
Assistant-Surgeon, sice Florence Theobald M'Carthy, who exchanges. 66TH FOOT. -- 81 Fig. Foot.—Surgeon William Sim Murray, M.B., having completed twenty years full-pay service, to be Surgeon-Major, under the provisions of the Moyal Warrant of December 27, 1870.

of the Joyal Warranis of Doombee 22, 1976. Assistant can provide our first form of the Joyal Warranis of Doombee 22, 1976. Assistant-Burgoon, reice Christopher Armstrong, M. B., who exhauges, Monto. L. Dira arrayer — Assistant-Burgoon Nichola Ffoliots, from the Sannders, C. B., who relieve on half-pay. Staff Assistant-Burgoon January Christopher Armstrong, M. B., who are supported to the January of the Janua

BREVET.—Staff Surgeon-Major William Frederick Torcato Ivey, who retires upon half-pay, to have the honorary rank of Deputy Inspector-General of Hospitals.

General of Rospitals.

Baff Surgoon-Major George Saunders, C.B., who retires upon half-pay, to have the honorary rank of Deputy Inspector-General of Hospitals.

Frederick William Blake, M.D., has been promoted to the rank of Staff Surgeon in Her Majesty's Piect, with semiority of November 2, 1870.

Burgoon in Her Majesty's Pieck, with semiority of November 2, 1870.
In accordance with the provisions of her Majesty's Order in Council of February 22, 1870, Assistant-Suppost Jeremish A. Hatch has been placed on the reference list of his range of the respective list of the respective

BORNAT ARM MEDICAL OFFICERS.—To be Surgeons: A sidelant-Surgeons Heavy Robert Laurence M'Dougell; Nathaniel Rophins; Edward Edward Raymord Langley; Philip Wyntt Cechell; George Testa Hunter; Henry Francis M'Orath; Edward Raymord Langley; Robinson Bouchesd; Prederich Robertson George Testa Hunter; Henry Francis M'Orath; Edward Alexander Lawrence; Robinson Bouchesd; Prederich Robertson George Testa March 1988 (1988) (198

ADMINISTRATION DESCRIPTION OF A PROPERTY OF

BIRTHS

CLARE.—On February 10, at 1, Curson-street, Mayfair, the wife of Wm... Fairtie Clarke, F.R.C.S., of a son.

COLBECK.—On February 8, the wife of Dr. Colbeck, Customs-quay, Dover, of a daughter.

or a magnuer.

Favrs.—On February 11, at Drumeree Cottage, Drumeree, Westmeath, Ireland, the wife of Usber W. Evans, M.D., Staff Surgeon-Major, of a sem.

HURR.—On February 8, at Admiralty House, Deal, the wife of Dr.

Frederick T. Hulke, of a son.

ROBINSON.—On February 7, the wife of Thomas Robinson, M.D., 35, Lamb's Conduit-street, W.C., of a daughter. THORNE.—On February 8, the wife of Frederick Thorne, Surgeon, Learnington, of a son.

WOODHOUSE.—On February 8, at Ranelagh Lodge, Fulham, the wife of Thomas James Woodhouse, M.D. Lond., F.R.C.S., of a son.

MARRIAGES.

ANDERSON—GARRETT.—OR February 9, at the English Proshylorian Church
Maryletone, by the Rev. Janos Anderson, D.D., Morpeth, James George
Sketton Anderson, son of the Rev. Alexander Anderson, Old Aberdeen,
to Elianbeth Garrett, M.D., daughter of Newson Garrett, Es 1., Aldbrough, Setfolt.

HILLIAD-Neurolia — On February 5 at All Saints' Church, Dalston Robert Harvy, Hilliard, M. I., or Einsteil and Bella, eiden daughter of Thos. W. Nicholis, Esq. 28, Kinpland-tun bella, eiden Gaughter of Thos. W. Nicholis, Esq. 28, Kinpland-tun Annual Church, Norm-Fownia, — On February, 11, at 81. John's, Fitzroy equars, Henry William North, Esq. of Blackheath, to Ann, widow of the late Sanuel Yowell, M. D. of Milwiton, Gomenesh.

TYLECOTE—HALL.—On February 8, at 8t. James's Episcopal Church, Edinburch, Edward Thomas Tylecote, M.D., Great Heywood, Staffordshire, to Hebecca, daughter of J. Lewis Hall, Eq., Wardie-awene, Edinburgh. to Hesecoa, daugner of J. Lewis Hall, Edg., warule-wrenne, faill-longer, Wood—Lawis, —On February 14, at 8t. Mary's Church, Cheltenham, W. E. Wood, late Surgeon in Her Majesty's Bombay Army, to Bessle, widow of the late T. E. Lewis, Commander I.N., and only daugnter of the late Major-General James Durant, Bengal Army.

DEATHS

Barnes, Ann, wife of Thomas Barnes, M.D., of Bunker's-hill, Carlisle, and Tring-park, Herts, on February 3, in her 70th year.

Kidd, Latra Isasella, wife of A. Napier Kidd, M.D., F.R.C.S., at Armagh, on February 7, aged 28 years. KRITH, Dr. WILLIAM, of 968, Union-street, Aberdeen, on Pebruary 5, after a protracted illness.

a Protracted liness.

KNOWLES, PEDERICK, the second surviving son of Edmund Yalden Knowles, Survon, at Parnham, Survey, on February 9, aged 37.

MRADE, VIOLET, the only daughter of Harry Meade, Surgeon, on February 14, aged four years and a half.

Piewrett, Sanuret, Surgeon, Demonstrator of Anatomy at the Middlesex Hospital, and third son of the late Thomas Pidwell, Surgeon, Pensance, at l'ensance, on February 12, aged 25.

Surre, Joseph, Surgeon, late of Clapham-road, at 9, Milford-place, North Brixton, on February 7, in his 79th year.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession. ALWING KURON, NOATHWANGALANO.—Medical officer and stated in succession.

ALWING KURON, NOATHWANGALANO.—Medical Officer and Public Vaccinator for the Embleton District. Candidates must be duly qualified in accordance with the requirements of the Poor-law Board. Applications and testimonials to J. A. Wilson, Clerk, Almwick, on or before February 22. Election on the 34th.

Baistroi Gruzza Hospital.—House-Surgeon; must be a Member of the College of Surgeons of London, Edinburgh, Glasgow, or Dublin, and be L.S.A. London or Dublin. Applications and testimonials to the Secretary on or before February 24.

DEVOY AND EXERTS HOSPITAL.—House-Surgeon. Applications and testi-monials to E. Force, Esq., at the Hospital, on or before the 23rd inst. East LONDO IN FOUR, EAS, at the Hospital, on or before the SPR inter-Least LONDO HOSPITAL FOR CHILDRER AND DIFFERENT FOR WORKS, ANYOLITY, LONDON, E.—HORSE-GURGEON; must have both Medical and the Company of the Company of the Company of the Company of Ashtow World Company, and the Company of the Medical Staff.

GOMESTAL FOR WORKEN, SORO-SQUARE, W.—Physician; must be a Gradin Medicine of some recognised University, and be a Member of Royal College of Physicians of London. Applications and testimor to H. B. Ingram, Esq., Secretary, on or before Pebruary 18.

KENT COUNTY OPHTHALMIC HOSPITAL.—Consulting Surgeon; must be duly qualified. Applications and testimonials to R. Pearson, Esq., Secretary, Maidstone, on or before March 18.

NORTH ORMEST COTTAGE HOSPITAL.—House-Surgeon. Applications to W. Skinnee, Esq., Coatham, Redear.

Sikianes, Ee₁, Coathan, Redeaz.

POPI-RA APS BETTERS SEC ASTUE DIFFACT, "Resident Melleal Super-intendent for the New Asylum at Bromley, Middleser, Candidates must form, which may be obtained of MR. H. Robert, Manager's Offices, Stepen Claic Workhouse, Bromley, E., on or before February 21.

DOTAL SCHARZ COURT HOSTITLA HOROUTE Medical Office, Application, Stepen Claic Workhouse, Bromley, E., on or before February 22.

DOTAL SCHARZ COURT HOSTITLA HOROUTE MICH. DELIAN, PARTONIN DELIANS, PARTON

tary at the Dispensary, on or before March d.

** The area of each district is stated in acres. The population is computed according to the late consumption of the property o

PROFESSOR OF CHEMISTRY AT CAMBRIDGE,-It is proposed to increase the stipend of the Professor of Chemistry, at Cambridge, from £300 to £500 per annum, and to appoint a Demonstrator of Chemistry with £150 per annum.

RUGBY .- Dr. Farquharson, the Medical Officer of the School at Rugby, and late of the Coldstream Guards, has sent in his resignation. He was appointed by Bishop Temple in 1868.

THE good-service pension of £100 a year, vacated by the death of Dr. John Wilson, has been awarded to Dr. James Wingate Johnstone, retired Inspector-General of Hospitals.

THE Hon. Member for Birmingham, Mr. Muntz, introduced into the House of Commons, on Tuesday last, a Bill to Exempt Charities and Hospitals from Local Rates, which was unopposed.

RETIREMENT OF PROFESSOR SKODA .- This celebrated ARTHEMENT OF TROYESSON SMULA.—In celebrate resolved, to the great regret of his numerous pupils, both Austrian and foreign, to resign his Clinical Professorable in the Vienna University. He is 65 years of age, and his determination has been come to in consequence of the prolonged annual absence from Vienna which the state of his health necessitates. He is to be succeeded by Professor Nièmeyer, of Tubingen.

Pursion to a CHIMIST.—It is gratifying to record any recognition of selentific merits Dr. Steehouse, than whom few men have done more in chemical lavestigation, and in the practical application of discoveries, physical and chemical, to the useful purposes of life, has, by her Majesty's direction, been granted a pension on the Civil List of £100.

THE RIBERI PRIZE.—The subject for the fourth award of the Riberi Prize is "Nervous Diseases in general, or any of them in particular." The conditions of the conceurs are— 1. The works must be legibly written or printed in the Italian, Latin, or French languages. 2. The printed works must have been published during the triennium 1871-73; two copies to occal promined during the triemnum 18/1-/3; two copies to be forwarded free of expense. 3. The works, whether manu-script or printed, must be delivered at the Royal Academy of Medicine, Turin, by December 31, 1873.

SMALL-POX AND VACCINATION.—A military Surgeon, on a recent examination of a large number of English recruits, found that 60 per cent. of lads unprotected by vaccination had been subjects of small-pox, as against 1.90 per cent. of protected recruits who bore traces of small-pox.

DEAD AT HIS POST .- Mr. Evans, one of the Dispensers of the parish of Bethnal-green, while performing his duties, now made perilous by the outbreak of small-pox, was seized with the disease, and, after eighteen days suffering, died. His wife, worn out by tending him, took the malady, and is now lying ill in a state of great destitution. This is a case deserving of commiseration, for the unfortunate husband died at th post of duty. The guardians of the union have started a sub-scription for the desolate widow by a vote of £25.

A USEFUL VACCINE STATION .- At the Great Northern A USEFUL VACCINE STATION.—As LEG GYORE FOR VINES IN HOSpital, on Tuesday last week, 180 persons were vaccinated by Mr. George Cooper, F.R.C.S. We think Mr. Cooper's station a model one. His regularity and kindness attract large numbers of patients for vaccination, and the accommodation afforded gratuitously by the Committee of Management of the Great Northern Hospitalis of a kind to facilitate greatly shawed. Such a station is off the highest value is a score the work. Such a station is of the highest value in a poor parish such as Islington.

DEATH OF DR. HILL, POOR-LAW MEDICAL INSPECTOR.

-We regret to announce the death of Dr. Hill, who for many — We regret to announce the destrict of Dr. IIII, who for many years occupied the responsible and onerous position of Medical cocurred on Saturday morning, at his residence, Dompybrook, after a short liness. The deceased gentleman was held in high esteem by the members of his Profession, and won the respect of all with whom he came in contact in the course of his public duty.

WOMAN'S VOICE.—Mr. Glaisher, the aëronaut, has noticed that the voice of a woman is audible in a balloon at the height of about two miles, whilst that of a man has never reached higher than a mile.

MOTHER'S MILK.—Among the human secretions cmployed medically in China, woman's milk stands high, and is much used. Dr. Macgowan mentions the case of an opulant much used. Dr. Macgowan mentions the case of an opular man who required 100 nursing women for supplying him with nourishment. On attaining his 100th year he was as "round and plump as a squash." 160 is the utmost point of longevity which man is known to have attained in the West.

Association of Medical Officers of Health.—The p.m. The discussion on Dr. Robert Barnes's paper, on the question "How far is the present prevalence of small-pox to question "How har is the present prevanence or small-pox to be attributed to the plan recontly introduced of limiting the number of public vaccinators;" will be resumed by the Presi-dent, Dr. Druitt, reading a short paper on revaccination. The adjourned discussion on Dr. T. Spencer Cobbold's paper, en-titled "Entoxon in relation to the Public Health, especially as regards Sewage and Parasites, especially as regards Sewage Irrigation," will be resumed by Dr. Letheby; previous to which Dr. Cobbold will read a supplementary paper "On Sewage and Parasites, especially in relation to the Dispersion and Vitality of the Germs of Entoxoa."

MUNIFICENT DONATIONS .- £1000, a second gift, has been received by the Small-pox and Vaccination Hospital from "D. V.," and a like amount by the Royal Infirmary for Children and Women, Waterloo-bridge-road, under the initials "E. F. S." The North London, or University College Hospital Production of the Control pital, has just received through its bankers, Messrs. Courts and Co., the munificent donation of £1000 from "G. W. S.," being the second of the like amount from the same anonymous

benefactor.

benefactor.

HUNTEHAN SOCIETY.—At the annual general meeing of this Society, held on Wednesday, February 8, the following officers were elected for the ensuing year:—President: D. De Berdt Hovell, Eag. Five-President: Thomas Bryant, Eag., J. Hughlings-Jackson, M.D., Robert Korold, M.D., Dender, M.D., Hughlings-Jackson, M.D., Borer, W.D., M.D., M.D., Hughlings-Jackson, M.D., James E., Adams, Eag., Council: Henry Berry, D. Hughlings-Jackson, M.D., Librarias: Robert Fowler, M.D. Secretaries: John J., Phillips, M.D., James E. Adams, Eag., Council: Henry Berry, Eag., F. Gordon Brown, Fag., M. Brownfeld, Eag., P. Lodvick Burchell, M.B., William Carry, M.D., Edward Clapton, M.D., Legen, F. Gordon Brown, Fag., M. Brownfeld, Eag., P. Lodwick, Burchell, M.B., William Carry, M.D., Edward Clapton, M.D., Walter Rivington, Eag., Sydney Jones, Eag., Walter Moscon, M.D., Walter Rivington, Eag.

Nance Avington, Effect of Exercise upon the Bodily Temperature," paper on the "Effect of Exercise upon the Bodily Temperature," by T. Clifford Albutt, M.A. MD. Cantab., F.L.S., Memor of the Alpine Club, etc., communicated by G. Busk, F.R.S.; received November 12, 1870:—The object of the author. carrying out the experiments recorded in the present paper was to inquire whether the regulating power of the organism held good under great variations of muscular exertion. For this purpose he made frequent daily examinations of his own temperatures during a short walking tour in Switzerland, and found that the effect of continuous muscular exertion upon himself was to sharpen the curve of daily variation, the culmi-nation being one-tenth or two-tenths higher than usual, and the evening fall coming on more rapidly, and somewhat earlier. Charts of the daily temperatures were handed in with the paper. The author made reference, also, to some observations of M. Lortet, which differed from his own. These observaof M. Lortel, which differed from his own. These observa-tions, which did not come into Dr. Clifford Allbutt's hands until his own experiments were partially completed, were adduced by M. Lortet to prove that the human body was very defective in regulating power under the demands of the com-bustion needed to supply the force expended in muscular exer-tion. Dr. Clifford Allbutt's results were very decidedly opposed to those of M. Lortet; for only on two occasions did he note the depressions of temperature which M. Lortet regards as constant. It would seem, however, that the body is more or less liable to such depressions when engaged in muscular exertion; but the cause of them is very obscure. Of the two low temperatures noted by the author, one occurred during a low temperatures noted by the anthor, one occurred during a very easy ascent of lower alopes, and the second was observed during a descent. The author thinks that they may be due to some accidental deficiency in combustion, and inquires whether the capacity of the chest in different individuals may account for the capacity of the creek in directer individuals may account for the varying influence of muscular effort npon them, and perhaps for the earlier or later sense of fatigue. The sphygmographic tracings added by M. Lortet to his temperature charts seemed to show a great inadequacy of the circulation.

FEVER IN NEWCASTLE.-Dr. Philipson in his sixth report for 1870, states:—"During the year 1870, 161 cases of continued fever were returned in Newcastle, with 1 death; 579 cases of typhus fever, with 45 deaths, a percentage of 7.8; 68 cases of enteric fever, with 6 deaths, a percentage of 8.9 12 cases of relapsing fever, without a death; and 193 cases of febricula, without a death. In Gateshead, 14 cases of continued fever, without a death; 128 cases of typhus fever with 6 deaths, a percentage of 4.7; 148 cases of enteric fever, with 13 deaths, a percentage of 8.9; and 144 cases of febricula, with 3 deaths."

BATH ROYAL UNITED HOSPITAL.—The Rev. Wadham Williams, Vicar of Bishop's Hull, near Taunton, the administrator of the effects of the late John Prankard, of Bath, has sent a donation of £5 to this institution. The donation was accompanied by a letter, which stated that Miss Kate Prankard, who had been in the Hospital for three weeks, desired to acknowledge the great kindness and attention received by her in the institution.

HEALTH OF SCOTLAND. -2950 deaths were registered in the eight towns during the month, of whom 1441 were males and 1509 females. Allowance being made for increase of population, this number is 30 above the January average of population, this number is 30 above the January average for the past ten years. A comparison of the deaths recorded in the eight principal towns shows that during January the annual rate of mortality was 20 per thousand persons in Perth, 26 in Leith, 31 in Edinburgh and in Aberdeen, 36 in Dunder, 30 in Paisley, 40 in Glasgow, and 41 in Greenock. Of the 2550 deaths registered, 1224, or 41 per cent., were of persons under 5 years of age; in Aberdeen and in Paisley, 30 per cent. of the persons who died were under 5 years of age; in Clasgow, 44 per cent.; in Clusgow, 44 per cent.; in Dundee, 46 per cent.; and in Greenock. Of per cent. Eight females had passed the 90th Greenock, 19 per cent. Eight females had passed the 90th Greenock, 19 per cent. Eight females had passed the 90th the persons who will be persons with the persons of the four hours.

DR. GIBBON ON SMALL-POX .- " I believe that they will get through the distemper, provided they are not, about the twelfth or fourteenth day of it, when danger to life is greatest, hurried off to a small-pox Hospital, as has been the case with nurricu on to a small-pox Hospital, as has oeen the case with one young man at least, without any sufficient sanitary reason. In order to prevent unnecessary alarm, the public should bear in mind the fact that the populous parishes of St. Luke's and Clerkenwell are now annexed to what was formerly the Holborn Union. So that when they see in the public prints the Holborn Union. So that when they see in the public prints the inotions Union credited with so many cases or deaths from small-pox, they must not conclude that all, or even a tithe of them, occur in the Holborn sanitary district. All told, as yet we hap only had thirty-five cases since September 29 last, and these include about sight cases that occurred by importing a wayfaring and affected with the disease into the local workhouse. The epidemic, as it occurs in this district, is sporadic; it has not spread from room to room, or house to house, except in Baldwin's-place, wherealad, after a fortnight's sojourn in the Small-pox Hospital, came home and ran about the house at a time the distemper was highly catching, and gave it to an unvaccinated child in another room, whose mother had been enjoined but was unable to take it to the station to be vaccinated. I feel some little Confidence that it will not spread to any great extent, because
I have always endeavoured to enforce the vaccination laws.
Previous to the Vaccination Act 1867 coming into operation, Frevious to the vascination Act 100 Comming into operations the successful vascinations performed by the public operators averaged about 700 yearly; in 1868 they rose to 837; in 1869 to 1035, when 1922 births were registered; in 1870 they fell to 639, when 1325 births were registered; this falling off was owing to the fact that the Privy Council reduced the three public vaccinators to one, and he was comparatively unknown amongst the poor. This diminution, however, is more apparent than real, because I find it was much more than apparent than counterbalanced by the vaccinations of private Practitioners. The new inspections relate to seventy-seven places, of which thirty-two require the orders of the Board for sanitary improvements in various particulars."

INDISCRIMINATE MEDICAL ADVICE. — DATH INVICE UNITED HOSPITAL.—At a meeting of the subscribers of this institution, last week, Dr. Watson spoke very carnestly against the stitution, last week, Dr. Watson spoke very carnestly against the stitution to be swamped. He main danger of allowing the institution to be swamped. He maintained that the rule should be strictly carried out that it only relieved those who were incapable of paying. He particularly referred to well-to-do people who came to the Hospital and obtained gratuitous advice and medicine. Quite by accident, a few days ago an applicant mentioned his occupation, and thereupon the Medical officer told him that he was not a fit person to make use of the Hospital, and that if he wished his advice he must call at his private residence. It was then stated that the fee would be a guinea, and eventually the patient agreed to the terms. Dr. Watsou was convinced that the Hospital was taken undue advantage of, and something must be done to put a stop to the abuse. Mr. B. Bartrum quite endorsed Dr. Watsou's remarks with respect to the improper admission of patients, and thought that unless they adopted the system of givings out-door tickets, and thus rendering the persons giving them in some degree responsible for their distribution, the abuse would not be checked, which was really a sore ose. Dr. Falconer said that it would soon be twenty-two years since the became counterted with the Hospital. When he first came to Bath the ticket system was in vogue, but it was came to pain the ticket system was in vogue, but it was complained of as the greatest nuisance; it entailed much in-convenience at the Hospital, for the majority that applied for relief had no tickets, and they were the most urgent cases. He did not know well how to prevent the cril. Some years ago, a clerk was employed to notify every Monday the social position of every patient admitted, but they found that the number of improper applications was not greater than 21 per cent. He had frequently refused to admit unqualified persons who came from the country, and the consequence was, they abused him when they went home throughout their dis-trict. It was, therefore, a disadvantage to him to turn away the country patients who were in a good position, and yet he had always done so when he found they were unqualified. Dr. Watson was aware that being a Physician at a Hospital of this kind was sufficient to obtain a country practice. Watson remarked that the ticket system answered well in the Watson remarked that the trucks system answerses were in one dispersance. There could be no doubt that one-third of the oppulation of Bath were relieved during the year at charitable institutions. Is,600 people received cratitutous relief during the year at the various institutions. This was a startling fact. The applicated Dr. Edicouer for his conscientiousness in sending He applanded Dr. Falconer for his conscientionances in sending away improper applicants, to his own private injury; at the same time, he did not think any one of the Medical staff would admit persons of this objectionable class if they were aware of their social position. Major Baker thought Dr. Watson must have forgotten, when he said that one-third of the population of Bath received relief from charities, that these institutions embraced a wide area because the said. sese institutions embraced a wide area beyond the city. Dr. Watson said there are 26,000 patients at the various Dia-pensaries and Hospitale, and under the Poor-law Medical Officers, and I think I am within the mark in reducing that number to 18,000 for the city. Dr. Falconer observed that the benefits of the Hospital are extended over an area embracing a population of 250,000. The Rev. Prebendary Kemble said it was sometimes a difficult matter to decide as to who were eligible and who were not to receive Hospital relief. It was necessary to ascertain where the line should be drawn, very necessary to ascertain where the min should im-and if anyone could give them a receipt for restricting imand it anyone could give them a receipt for restricting im-proper patients, he was sure the committee would be very much obliged to him. At present no scheme for this purpose had been suggested, and they were as far from the solution of the difficulty as ever they were; but he was of opinion that toe discarry as ever they were; but he was or opinion that any scheme that might be proposed would incur more expense than the unqualified patients themselves cost, and, therefore, he thought they had much better let things go on as they were, unless they could discover some very effectual remedy.

NOTES, QUERIES, AND REPLIES.

De that questioneth math shall leurn much .- Bacon.

Mr. Gaine's paper shall appear as soon as possible.

N. S. E.-Read "The relations of Physiology to Sexual Morals," by Prof.

Praccia W. Newman, published by Trübner, Paternoster-row Chemicus.—There are no Commissioners for counties. Dr. Arthur Mitchell, 5, East Claremont-street, Edinburgh, is Commissioner for Scotland.

VACCINATION.

By giving a place to the above thoughts, you will oblige,
Yours truly.

17. Denmark-terrace, Printen.
R. T. Masse, M.D. . Our correspondent should read the letter from Liverpool in another column.

- A Pupil. We understand that some such arrangement will be made in the new St. Thomas's Hospital.
- H. M. S .- The appointment is in the hands of the Secretary for the Colonies
- Law Institution.—By ballot, which takes place periodically. Mr. Vincent, the Secretary, will afford further information if applied to.
- In Burs.-It is necessary that he should be registered
- C.—The operation was performed at the North Staffordshire Hospital. L.R.C.P.-There is no law whatever that could prevent him assuming the
- Anxious. The person is an advertising quack, and has no qualification whatever.

THE TREATMENT OF THE PUTTING IN SUBLISHOP.

The Takarasay of the Petrika De Stalatons.

Ring.—See Betting of your subject types and oarsets.

Ring.—See Betting of your subject types and oarsets.

But the Company's everye, to troat a case of small-pox, specially with the object company's everye, to troat a case of small-pox, specially with the object company's everye, to troat a case of small-pox, specially with the object of the objec

Hospital Beer. - Information as to Hospital diet and allowances is to be found in Squire's "Hospital Pharmacopura." The ordinary or middle diet for men usually allows half-a-pint of porter at dinner every day, Full diet generally allows a pint. Stout, brandy, and wine are extras to be ordered specially for each patient by the Physician. ";
specify the exact form in which he wishes further information.

Leicester .- In Dr. Clarke's yearly report of the Union Infirmary, Leicester, he says that about one person in twenty-four who died in Leicester, died in the workhouse. With respect to the prevention of scarlet fever, he makes the following remarks:—

makes the following remarks:—
"During the whole of the revent severe evidencie of assaict ferer, only one case last year was developed in the Union Schools, and that of the mildest character, in a child send s, who did well. A separate nurse was provided, the child was isolated five weeks, and every case was taken as provided, the child was isolated five weeks, and every case was taken as provided, but child was included to the child was included a superior of the child was been also allowed to visit friends in the town for several mother, and to the fertunate circumstance that no mathers having children suffering from the disease below, so first, here went in from the torn during the viole period."

WHAT IS " POTT'S FRACTURE"!

Wear is "Dorr's Factoria"?

Fig. — To THE SOUTH OF THE SECOLATIONS AND GARTYRE,

TO THE SOUTH OF THE SECOLATIONS AND GARTYRE,

TO THE SOUTH OF THE SECOLATION OF THE SECOLATION OF THE SECONATION OF THE SECONATIO

is injury.

If you will kindly insert this letter amongst the correspondence, with the newer, you will much oblige.

I am, &c. Exil.x.

Allahabad, January 1.

• . * Vide " Some Few General Remarks on Fractures and Dislocations, by Percivall Pott, F.R.S., and Surgeon to St. Bartholomew's Hospital, London, 1778," p. 57:-"There is a case," says Pott, "which, according to the general manner of treating it, gives infinite pain and trouble both to the patient and Surgeon, and very frequently ends in the lameness and disappointment of the former, and the disgrace and concern of the latter: I mean the fracture of the fibula attended with a dislocation of the tibia." He goes on to speak of the great importance of the fibula as a constituent of the ankle-joint; and avers that the perpendicular bearing of the tibia on the astragalus depends on its firm connexion with the fibula. "When by leaping or jumping the fibula breaks in the won't part, within two or three inches of its jower extremity, the inferior fractured end of the fibula fails inwards towards the tibia; that extremity of the bone which forms the outer ancie is turned somewhat outward and upward, and the tibia having lost its proper supports, and not being of itself capable of steadily preserving its true perpendicular bearing, is forced off from the astragalus inwards, by which means the weak bursal or common ligament of the joint is violently stretched, if not torn, and the strong ones which fasten the tibia to the astragalus and os calcis are always incerated, thus producing at the same time a perfect fracture and a partial dislocation, to which is sometimes added a wound in the integuments made by the bone of the inner ancle." It seems clear, from this quotation, that Pott regarded the fractured fibula as the primary and essential lujury produced by rash jumps, and the inward disjocation of the tibis as a consequence.

Southport.-It appears to be pretty clear that the paragraphs alluded to ational"than truthful. At all events, from the statements made, the small-pox has not been "epidemic" at Southport. There have been a few sporadic cases, which at the present time is not to be wondered at, in a town containing 20,000 inhabitants. The "ranitary movements" had commenced at least a month before the comments of our contemporary appeared.

COMMUNICATIONS have been received from-

BOOKS RECEIVED-

Transactions of the American Ophthalmological Society—The Constitution Violated; an Essay by the Author of the "Memoir of John Grey, of Diston"—The Geoernphical Distribution of Heart Disease and Dropey in England and Wales; with a large coloured chart—Report of the Alancheuter Medico-Ehinal Association—Culy of London Directory, 1871.

PERIODICALS AND NEWSPAPERS RECEIVED

Nature — Southport Independent — Pharmaceutical Journal — Biarner —
Bath Express — Chemist and Druggist — Brighton Chronicle — The
Rever's Guardian—New York Medical Garette—Medical Press and
Circular.

APPOINTMENTS FOR THE WEEK.

February 18. Saturday (this day).

perations at St. Bartholomew's, 1\(\frac{1}{2}\) p.m.; St. Thomas's, 0\(\frac{1}{2}\) a.m.; King's, 2\(\pi\), m.; Charine-eross, 1\(\pi\), m.; Royal Free, 2\(\pi\), m.; Hospital for Women, 9\(\frac{1}{2}\) a.m.; Boyal London Ophthalmic, 11\(\text{a.m.}\)

PATAL INSTITUTION, 3 p.m. Prof. Jowett, "Socrates,"

20. Monday.

Operations at the Metropolitan Free Rospital, 2 p.m.; St. Mark's Rospital for Diseases of the Rectum, 3 p.m.; St. Peter's Hospital for Stone, 25 p.m.; Royal London Ophthalmie, 11 s.m.

Medical Society of London, 8 p.m. Dr. Edward Crisp, "Two Cases of Inflammatory Group." Mr. Spencer Watson, "Two exceptional Cases of Cataract." Dr Proser James, "On "Chloral."

21. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopsedic, Great Portland-street, 2 p.m.; Boyal Free, 2 p.m.; Royal London Ophthalmic, 11 am.

Ophthalmin, 11 a.m. Per following Specimens will be erab-ly Paramozora & Borrer, 8 p.m. The following Specimens will be erab-bited: —Dr. Morell-Mackenste, "Constriction of the Trackes, with Paramozora & Borrer & Construction of the Trackes, with Morco, "General Pirmany Collod Cover of the Steleon; Spalinia Inflammation of the Jung, 'Donge of Gryto Yellow Tuherele of Lung," Mr. De Morsen, "Phomograf Lower Jave, Tumor Turbers of Lang," Mr. De Morsen, "Phomograf Lower Jave, Tumor Tree the Athlies, Herrin, Beduction on mass." Dr. Greenhow, "Cancer of Gleephages, with a Pistulary Op uning into the Trackes." Mr. Try, "Contents of a With a Pistulary Op uning into the Trackes." Mr. Try, "Contents of a With a Pistulary Op uning into the Trackes." Mr. Try, "Contents of the Doctrier: Thial Nerve." Dr. Dickinson, "Garrent Consected with Doctrier: Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier: Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected of the Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected On Doctrier Thial Nerve." Dr. Dickinson, "Garrent Consected

22. Wednesday.

Operations at University College Hospital, 2 p.m.; 8t. Mary's, 11 p.m.; Middlesex, 1 p.m.; London, 2 p.m.; 8t. Bartholomew's, 12 p.m.; Great Northern. 2 p.m.; 8t. Domass' 1 p.m.; Onthalmic, Nouthwark, 2 p.m.; Rumaritan, 2.30 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmic, 11 a. M.

HITTERIAN SOCIETY. 74 p.m.: Meeting of Council. 8 p.m.: Dr. Braxton Hicks, "On International Action of the Uterus throughout Pregnancy." Dr. Pye Smith, "On Sypblitte Phthisis."

SOCIETY OF AUTS, 8 p.m. Meeting.

23, Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmic, 1 p.m.; Royal Orthopeedic, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m.

24. Friday.

Operations at Westrainster Ophthalmic, 1; p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 1t a.m.
CLYSTEA, Security, 8; p.m. Mr. Gant, "On the Process of Occlusion in Arterics after Acapressure, with its Relation to the Treatment of Surg od Heronorchape, and compared with Ligature and Torsion."

QUEERTT MICROSCOPICAL CLUB, 8 p.m. Mr. J. R. Leifchild, "On Sections of Coal and Fossil Woods," Mr. W. H. Furlonge, "On the Minute Anatomy of Pelex irritans,"

VITAL STATISTICS OF LONDON. Week ending Saturday, February 11, 1870. BIRTHS.

Births of Boys, 1257; Girls, 1209; Total, 9160. Average of 10 corresponding weeks, 1860-69, 2224-6. DEATHS.

		Males.	Pemales.	Total.
Deaths during the week . Average of the ten years 1960-69 .		875 739°3	874 726-7	1749 1406:0
Average corrected to increased population	:	1000	120 /	1613
Deaths of people above 90		1		***

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

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METEOROLOGY.

F. Temperature Temp. R.

From Observations	at	the	Gre	enscich	Obser	rate	rv.
Mean height of barometer							29 7t5 in.
Mean temperature	٠						41'6"
Highest point of thermometer							25.5
Lowest point of thermometer	٠						25.0"
Mean dew-point temperature General direction of wind .	٠						26.2,
Whole amount of rain in the w	٠.	٠.					Variable.
W Bote amount of rain in the w	ree	к,					0.72 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, February 11, 1870, in the following large Towns:—

E.

	rear 1871.	Асте.	during Feb. 4.		of A	ir (F	ahr.)	Cent.		all.
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A	Births Registered the week ending	Deaths Registered the week ending ?	Highest during	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	071 072 075 075 075 075 075 075 075 075 075 075	In Centimetres.
London	8259469						41'6	5:33	0.72	
Portsmouth	125464	13.5					4.34	6.33		
Norwich	8t767	10.9				20-0	37 8	3-22	172	4'87
Bristol	173364	37.0		70				***		
Wolverhampton	74438	22.0			52.5			5:39		
Birmingham	378574	48-3					42.2	P.84		
Leicester	101367	31.7	65			26.2		4'94		
Nottingham	90490	45:3	60				42.8			
Liverpool	526225					27.9	41.3	5.11	0.41	1.96
Manchester	379140	84.8	275					100		
Salford	123851	\$3.8	109		21.5		41'7	£-89		
Bradford	149/130	23.2					41.0			
Leeds	366108	13.3	170				43.8			
Sheffield	255247	11.5	185			28-6				
Hull	135196	35.0	100			26'0		3 30		
Sunderland	100037	31-3	67	60						
Newcastle-on-Tyne	136233	25.8	134			28 0		8.77		
Edinburgh	179944	40.6	118			36.0		6.00		
Dublin (City, etc.+)	477627	94'3	209	356	91.0	31.6	47'8	6'95		
Total of 20 Towns	322321	29 1	200	199	92.9	31.0	14 0	6.30	0.84	3.31
in United Kingd'm	7330941	34'4	5323	4159	56 5	20.0	41.3	8:17	1.07	2.72
Paris-Week ending			1	1	1		1		T I	7
Feb. 11	1889849	96						1,01		
Vienna-Weck end-					***				***	
iner Jan. 28	622087	66		270			27.7	-9:36		
Berlin-Week end-						1/4				
ing Feb. 11	800000	52					1			***

At the Boyal Observatory, Green wich, the mean reading of the barometer in the week was 29 72 in. The highest was 30 03 in. on Tuesday morning, and the lowest was 29 06 in. on Friday afternoon.

and the lowest was 20 to it, our Friday atternation.

Note:—The oppulation of Ottes and Boroughs in 1870 is estimated on
the assumption that the increase since 1601 has been at the same anusal
rice as telewort be censuses 1618 and 1881; at this distant period, howinterest to the constant of the same anusal in the contract of the contract of the
instances be erronevas. The estimates for Lefeveter, Nottingham, Leela,
Freddred, and Hull are based upon a local enumeration of the inhabited.

The actual numbers of the population of these cities and boroughs, as cummerated at the Census in April next, will probably be available before the middle of the year, and will then be substituted for these estimates.
 Inclusive of some suburbs.



DR. ANGOVE'S ACCIDENT CASE.

"The advantages are that if vill contain instruments in encough for a flavor herping this cricked and having up in a hardy place in encough for a flavor ments, dec, out, you have an oblong lox, in which you can put what you kin which do not take up any room in the case. In a mining practice one searce in the Case are made of hard, solid leather, and will stand any amount Stendes deep. These of Dan, covered in moreone on liked views, with swit Stendes deep. These of Dan, covered in moreone on liked views, with swit for almost nay accident, logetsker with list, plaster, handages, tourniquet, &c.; and by dy to be off at any moment. It is easily carried on howebook. By faising the instru-at you like, the instruments being only key in by a leather strap and an elastic band, things she including an amputation, one accident he is called to 7, therefore, fast it via amount of knocking about, and cost a very small sum. Size of Case, 14 inches long, with swirths and drays, complete, 17 of; Case complete with fastruments of the with with a dark drays, complete, 17 of; Case complete with fastruments of

MANUFACTURED SOLELY BY

8 SONS. ARNOLD

Instrument Makers, by Appointment, to Her Majesty, St. Bartholomew's Hospital, Seamen's Hospital, &c., &c., 35 & 36, WEST SMITHFIELD, LONDON.

NEW THE PATENT

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PRIZE MEDAL.

PRATT, JOSEPH F.

PRIZE MEDAL

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PALATABLE" COD-LIVER OIL, "PALATABLE" CASTOR OIL, AND "PALATABLE" COD-LIVER OIL WITH QUININE

So prepared as to be really pleasant to the taste, whilst their medici of in the least impaired. They can be assimilated when other kinds

From the MEDICAL TIMES AND GAZETTE, June 4th, 1870.

FIG. 100 SECURITY STATES AND GAZETTE, June 4th, 1870.

"In these preparations the Patentee have succeeded in making the Gil and only platishely, but easily retained upon the stomach without rising. We tried them in several cases with matter breefs, and in some incincates in which the Gil in its natural state could not be related. The mode of the contract of the co See also "The Lancet," June 18th, 1870, and Jan. 28th, 1871; "Medical Press and Circular," May 4th, 1870, and Dec. 28th, 1870; "British Medical Journal," Nov. 19th, 1870.

GEORGE W. FOX & CO.'S London Depot, 8, Bury-court, St. Mary-Axe, E.C. MANUFACTORY, CITY-ROAD, MANCHESTER; and through all leading Wholesale and Retail Chemists
Palatable Cod-liver Oil, 1s., 2s., 2s. 2d.; with Quinine, 2s. 8d., 4s. 9d. Palatable Caster Oil, 8d., 1s.

LECTURES. ORIGINAL

LECTURES DELIVERED

PHYSIOLOGICAL LABORATORY OF UNIVERSITY COLLEGE.

By J. BURDON-SANDERSON, M.D., F.R.S., F.R.C.P., Professor of Practical Physiology.

LECTURE IV .- ON THE COLOURING MATTER OF THE BLOOD. (Continued.)

BEFORE we proceed to the important subject, on the considera-tion of which we have to enter to-day—the physiology of the circulation—we must complete the examination of the colouring matter of the blood, with which we were engaged at the close of last lecture. Of the four observations we proposed to make, three only were accomplished. I have still to show you that solutions of hemoglobin, when subjected to the action of acids or alkalies, undergo a peculiar change of colour, and that this is owing to the formation of a new colouring matter, of much more stable constitution than hemoglobin, insoluble in water or alcohol when neutral, but soluble in both when elightly acid or alkaline. This body is called hematin.

OBSERVATION XVIII.—ACTION OF ACETIC ACID ON THE BLOOD COLOURING-MATTER.

OBSERVATION XVIII.—Actros or Accessed Acts or The Blood Calciouses—Matters.

All the methods of obtaining hematin (which has been much longer known than hemoglobin, and was for years vegarded as the true colouring matter of the blood), are dependanced to the property of the addition of which to any solution of blood produces the change of colour above referred to. The nature of the change, as in the case of those changes we observed last locaters, may be in part made out without the sid of instruments. The red of a solution of blood colouring-matter, acidulated with acetic acid, appears to be mixed with brown if you view it by reflected appears to be mixed with property of the that it appears to have shifted somewhat nearer the sodium line. On restoring the acid reaction, the band returns to its former position.

A much more remarkable change of colour occurs if we add a reducing agent, such as that first employed for this purpose by Professor Stokes, which is prepared by adding excess of ammonia to a solution of protosulphate of iron and tartario acid. You will find that when you treat solution of hematin with this liquid the single band in the orange will entirely with time inquid the single band in the orange will entirely disappear, and two other bands will become visible on the opposite sodium line, which at first sight seem to be similar to those of hemoglobin. These are the bands a yand \$ of reduced hematin, and are easily distinguished by their relative breadth and position, as you will best judge by comparing them with the diagram.

the unspram-tion unsprame blood is rubbed down with common salt to fias powder, and the mixture treated with glacial acetia and, a solution is obtained, which yields crystals of hemantin te che-mical combination with hydrochlorie acid, the characteristic form of which may be readily recognised under the microscope. These crystals have been long known by the name of their discoverer—Teichmann. The process constitutes what is called the hæmin test for blood-stains, and is regarded by Medicolegal authorities as a most reliable one. The great value of it consists in the fact that it may be applied to the minutest fragment of dried blood, and that the whole process may be performed under the microscope. To linsure success, the greatest care must be taken that the dry blood and salt are intimately incorporated with each other. The mixture must intimately incorporated with each other. The mixture must

Vot. I. 1871. No. 1078.

then be spread on an ordinary microscopical slide, and covered with a thin glass, under which glacial acetie acid must be

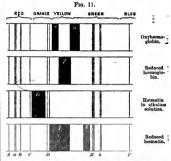


Fig. 11.—Diagram of the principal absorption spectra of the blood, showing the relation of the absorption bands to Francahofer's lines. The letters of the Greek alphabet on the bands are those by which they are usually designated.

allowed to enter from the edge. The whole must be gently warmed, until bubbles begin to form, and then left to cool. On examining the preparation, you find the whole field more or less beset with intense-coloured rhom-Fro. 12.

boidal crystals, in addition to which there are minute, irregular-shaped masses of albuminous material, and, of course, crystals of common salt which have not been dissolved.

Hydrochlorate of hæmatin may be prepared lu quantity by a similar pro-cess. For this purpose it is convenient mt. to use blood corpuscles, collected by subsidence from defibrinated blood. diluted with 10 per cent. solution of salt, as you saw last week. The cor-

..._microscopical min crystals Pro. 12 - Micro

salt, as you saw last week. The corpusation must be freed as completely so-gossible from serum by repeated washing with salt solution, and then treated with a large excess of glacial accide acid. The mixture is kept for several hours over a water bath till a purplish solution is obtained, which is then diluted with the purplish solution is obtained, which is then diluted with the purplish solution is obtained, which is then diluted with the purplish solution is obtained, which is the diluted with the purplish solution as the solution is the purple of the p

water as before.

I show you here another remarkable derivative of hematin, first described by Hoppe-Seyler as iron-free hematin, and often called four-shanded hematin, from the obaracters of its absorption spectrum. Its solution is obtained when hematin is treated with strong subpluvie acid, from which the colouring matter separates on the addition of water; it may then be dissolved in ammonia. It differs from hematin mainly in containing ue iron, and in being insolvable in dilute acids. Although, to the unstable see the ammonical solution of this materians it is arou, and in ouing insortine in distinct scient. Although, to the unsided eye, the ammonised solution of this substance is indistinguishable from that of hematin, you will find that it acts on light very differently. It sepectrum shows three well-marked bands at various intervals between the lines c and z, and a fourth, less distinct, towards the violet.

ON THE CIRCULATION OF THE BLOOD.

In commencing the study of the phenomena of the circulation of the blood, or in describing those phenomena, the order to be followed is to be determined on the same principle of relative simplicity to which reference has already been made. The circulation presents itself in its simplest form in the sorts and in the pulmonary artery. It is with them, therefore, that we must begin in our study of the systemic and plumonary.

vascular apparatus respectively.

At the commencement of the period of relaxation of the heart—i.e., of the period which intervenes between one contraction and its successor—the progressive movement of the

blood in the sorts all but ceases. At that moment, and during the remainder of the time which precedes the bursting open of the acrtic valve, the pressure exercised by the wall of the vessel on its contents is the only cause of the continuance of vessel on its contents is the only cause or the continued of the blood-stream. During each ventricular systole this is aided and reinforced by the motion communicated to the blood by the contracting ventricle. Consequently, if—for the sake of facilitating our understanding of the matter—we assume the heart to be a mere pump, acting regularly, and discharging at each stroke an invariable quantity of liquid, we have the force by which the circulation is carried on at any moment expressed by the tension of the arteries; or if, on the other hand, we sume the tension of the arterial system to remain constant, then the quantity of work done varies with the velocity of the stream at the commencement of the sorta-in other words,

with the quantity of blood delivered by the heart per minute.

This problem—the determination of the work done by the This problem—the determination of the work done by the heart in a given time—is one of the most important in the physics of the circulation. To speak arithmetically, the work done is the product of the arterial reaction, and the quan-tity of blood discharged into the aorta by the heart in the same time. This being the case, it is evident that for the solution of the question two things are necessary; first, to measure the rate of flow of the blood through the aorta, and thereby (its calibre being known) the quantity of blood which passes through it in a given time; and secondly, to estimate the arterial tension by the measurement of the estimate the arterial tension by the measurement of the mean pressure existing in the arteries during the same period. As the experiments required for the first of these measurements are of great difficulty, I shall defer attempting to show them for the present, but will at once direct your attention to the methods employed for the measurement of the arterial pressure.

OBSERVATION XIX .- ON THE METHOD OF MEASURING AND RECORDING THE ARTERIAL PRESSURE.

The arterial pressure, although in the mean remarkably The arterial pressure, although in the mean remarkance or constant, almost as constant as the temperature of the body, is subject to recurring variations—i.e., alternate augmentations and diminutions, which are of three orders. Of these, the first is dependent on the rhythmical injection of blood into the actual constant of the heart; the second, on the acterizes by the contraction of the near; the second, on the influence which the respiratory movements, or rather the alternate acts of breathing, exercise on the circulation; the third, on sugmentations or diminutions of what is called the tonus of the acteries, by virtue of which they are con-stantly undergoing changes of diameter, consequent on varying

conditions of the nervous system.

In the measurement of the arterial pressure we have, therefore, two distinct problems. The first is the determination of the mean or average pressure, which, as I have said before, is almost as constant as the temperature in the same animal so long as it remains in a natural state; the second is the investigation of the variations due to the heart's action, to respira-

tion, or to arterial contractility, respectively.

For the determination of the mean arterial pressure, and of those variations which belong to the second and third class, preference is to be given to the ordinary mercurial manometer, one branch of which is connected with the artery to be investigated while the other income. gated, while the other is open. This instrument, as so applied, constitutes what Poiseuille designated by the term he madynamometer. It was employed in this simple form until Ludwig, namometer. It was employed in this sample form nutil Louwing, in 1848, by his invention of the kymograph, laid the foundation of the more exact methods of investigating blood-pressure which are now in use. Just as the first method of Poisseille originated in the ruder experiments of our countryman Hales, so the notion of the kymograph was suggested by a contriving of Watts for registering the pressure of the steam.

engin.

This contrivance consists essentially in causing a pen, fixed horizontally at the upper end of a vertical steel rod, the lower end of which rests by a floating piston on the surface of the mercurial column in the distal open limb of the manometer, to write the up and down movements of the column on a surface of paper progressing horizontally at a uniform rate by clock-work. Since the time that Ludwig first employed it, the contrivance has developed into a method now commonly known as the graphic method. For many years the kymograph was limited to the laboratories of Germany, and retained for the most part the same form in which it was originally introduced by Ludwig. To what extent it has been used in France, I do not know; but in England, at the time that the instrument which we are going to use this morning was constructed, there was, to the best of my belief, no other.

We will now proceed to make an observation of the arterial We will now proceed to make an observation of the arternal pressure in the rabbit, after which I will explain the construc-tion of the instrument, the mode of using it, and the general nature of the results which are obtained by it.

The animal has been placed under the influence of chloral, five grains of which substance have been injected into the external jugular vein, and it is absolutely insensible. As a means of producing ansesthesia in animals, this substance is far superior to chloroform, partly because it interferes less with ar superior to cultornorm, partly because it interferes less with the play of the vital functions, partly because its influence is much more permanent, lasting for five or six hours without any repetition of the dose. It is the last fact especially which

renders it so valuable

renders it so valuable. With respect to the performance of what are called viriwith respect to the performance of what are called virisections, I can assure you that I have as Prevention of Cruelry
to Animals. The rules with respect to them are these-Eirus,
no experiment that can be performed under the influence of an
amesthetic ought to be done without it; secondly, no peripit
experiment is justifiable for the mere purpose of illustrating a
law or fact already demonstrated; thirdly, wheaver, for the isw or fact arready demonstrated; thirdly, whenever, for the investigation of new truth, it is necessary to make a painful experiment, every effort should be made to insure success, in order that the suffering inflicted may not be wasted. For the question of cruelty depends, not on the absolute amount of suffering, but on its relation to the good to be attained by it. For this reason, no painful experiment ought to be performed by an unskilled person, with insufficient instruments and by an unsumed person, with insumment instruments and assistance, and in places not suitable for the purpose. Even under the most favourable circumstances it is only by the utmost care and forethought, joined to a certain amount of utmost care and forestrought, joined to a certain amount or experience and skill, that physiological experiments can be experienced and skill, that physiological experiments can be qualifications that the real crucity consists. To counteract it, the only effectual way is to establish physiological and patho-logical laboratories under proper regulations. The opponents of the legitimate use of vivisection should consider in how far their opposition may not tend to promote crueity by compelling those who are engaged in physiological study to make their experiments in holes and corners, and without proper assistance or apparatus.

ance or apparatus.

Every kynograph may be described as consisting of two
parts—the recording apparatus and the manometer. In this
instrument, as arranged for the present experiment, the manometer (a. n.) retains the form which was originally given to
it by Poissuille. The vertical brass frame, to which it is fixed it by forsemine. In evertical orass frame, to writen it is fixed above and below, is supported by a horizontal arm, which is fitted to the upper surface of the case of the clockwork. In its distall limb (o) is a floating piston (a), and a rod of glass about nine inches in length, which is bent horizontally at its upper end (b). Behind the tube, and close to it, there are two vertical and parallel steel rods like knitting needles, fixed below to the vertical brass frame already mentioned, on which an extremely light rider, carrying a pen (c), runs freely up and down. If you watch this rider you will see that it follows exactly the movements of the mercurial column, for it is connected with the horizontal arm (D) by a silk cord. The use of the steel rods is to keep the movements of the pen steady and vertical.

In Professor Ludwig's laboratory, at Leipsie, the method of securing this is different, and perhaps in many respects pre-erable. The horizontal pen springs directly from the upper reratio: The norisontal pen springs directly from the upper ond of the piston rod, the manometer being fixed at a much lower level relatively to the cylinder; the point rests obliquely, just as an ordinary writing-pen does, against the moving paper. It is kept in contact by a plummet, the silk cord of which gently presses against its side.

grampy processed against its states.

The process of the process of the process of the grampy and the with the actory. The way in which this is effected in a matter of considerable importance. The artery which is almost always selected in the rabbit is the carotid. The operative procedure is simple. The artery can be exposed with the greatest facility, and must be cleared of its sheath for about an inch, in doing and must be cleared of its sheath for about an inch, in doing which the most scrupulous care must be taken not to interfere with the vagus. Two ligatures must then be placed round the artery, one of which—that further from the heart—must be tightened. A clip having been placed on the artery about three-quarters of an inch above the ligature, the artery is then opened by an oblique incision, and a canula introduced and secured with the loose ligature, which should be looped ready beforehand. The canula is of a peculiar form. It is a T-shaped tube (n), either of silver, or of glass with a silver nozzle. When in use it is connected by the stem (M) with the tube leading to the manometer; by one arm (r) it is inserted

into the artery, while the other ends in a vulcanite escape-tube (o), controlled by a pair of buildog forceps. The interior of the tube (x) is divided by a septum which runs from end to end, the use of which I will explain immediately. You will



Fig. 18.—Dr. Sanderson's double-cyli mercurial manometer attached.

observe that the connecting-tube (1) which unites the artery with the manometer is partly of vulcanite but principally of lead, the purpose of which is to obviate the modification of the effect by elasticity which would take place if the former material were used for the whole. Further, you will notice that the connecting-tube (x) communicates by a side branch (L) with a bottle which is suspended from the ceiling at a height of seven or eight feet from the table. This bottle contains a saturated solution of bicarbonate of soda. Before the councet-ing-tube (xx) is united with the artery-tube, the proximal limb of the manometer (excepting that part which is occupied by the mercury) and the connecting-tube itself must be filled with the same liquid.

Let us suppose this to have been accomplished, and that the Let us suppose this to have been accomplished, and this time communication of the system with the bottle containing sola solution on the one hand, and with the artery-tube (r) on the other has been established, and further, that the latter has been inserted in the carotid, and secured as I have explained. The whole system of tubes has been completely filled with solution of soda, in order that whatever blood may pass into it from the artery may be prevented from coagulating. With a similar view, it is of great advantage that a pressure should exist in the artery-tube before blood is allowed to have access to its interior, which is nearly equal to that usually prevailing in the arterial system; for otherwise, a large quantity of blood finds its way into the tube and coagulates, notwithstanding the soda

solution. To avoid this accident, the liability to which is the solution. To avoid this accident, the maching to whole is the chief source of failure in observations of this kind, is the purpose which the bottle suspended to the ceiling is intended to answer. So long as it is in communication with the manometer, it is obvious that the difference between the height of the two columns will correspond to the difference of elevation between the surface of the mercury in the proximal column and that of the liquid in the bottle—the former difference being to the latter as the specific gravity of saturated solution of soda is

to the specific gravity of mercury.

Before removing the clip from the artery you will, of course, understand that the branch tube (L) is closed. If, however, in spite of all precautions, coagulation should occur in the arteryspite or an precautions, coaguiation anomic occur in the artery-tube, it is easy to reopen it, at the same time relaxing the grasp of the bulldog forceps (o), and closing for the moment the com-munication with the manometer. By this means a stream of soda solution is made to flow through the artery-tube, and the

Cot removed.

As regards the recording cylinder, I have little to explain. The direction of rotation is from right to left. The right hand cylinder (v) is driven by the clockwork, but can be put out out of gear when necessary. The other cylinder (v) is moved by a weight, the cord of which runs over the pulley (a). By this weight, the cord of which runs over the pulley (n). By this arrangement, the paper as it rolls off the one cylinder on to the other is kept constantly tight. On the right side of the clockwork is seen a handle by which it can be stopped.

The tracing we have obtain d shows us that in this rabbit the mean arterial pressure is about five inches and a half, and the mean arcran pressure is about nive incines and a pair, and that the expansion and contraction of the artery (in other words, the pulse) are indicated by very minnte undulations, each of which corresponds in duration to $\frac{1}{14}$ of a minute, this being about the normal rate in the rabbit. But, in addition to this, you notice that there are larger waves, which correspond, not to the beats of the heart, but to the respiration-the valley and ascending limb of each of these greater undulations cor-responding to inspiration, the summit and descending limb corresponding to expiration and to the pause.

The instrument we have been using is not the one which I

myself prefer for purposes of investigation. That instrument I will first shortly describe, and then point out its practical advantages. It differs, first, in the form given to the manometer, and, secondly, in the mode of transmitting the move-

ments of the mercurial column to the paper.

The manometer consists of two limbs of equal length, one of which, the distal (A), is much wider than the other near the top, the relation between the lumen of the one and that of the other being 1; 12. Consequently, for each inch that the level of the mercury moves in the distal limb, it moves twelve inches in the proximal. The float which rests on the distal column is of boxwood: its under surface is concave, so as to fit the convex surface of the mercury. By the vertical rod it is connected with a light lever (E), two feet in length, which is counterpoised by a weight suspended to it on the other side of the brass bearing (a). At its opposite end the lever carries a pen, which writes on the moving paper. The only serious objection to this manometer is that the movement of the pen, instead of being rectilinear and vertical, is circular. Consequently, it is vertical only when the lever is horizontal, for which reason the fulerum (E), which is constructed so as to slide up and down on the brass uprights, is so placed that the lever is horizontal when the height of the mercurial column corresponds to the average arterial pressure. Its advantages are, however, more average arterial pressure. Its avantages are, nowever, more than sufficient to counterbalance this one drawback. They may be enumerated as follows:—1. The working of the instrument is more accurate and reliable. The resistance offered by the narrow surface of mercury in the ordinary kymograph. is so slight in proportion to the weight It has to support, and the friction so considerable, that, in spite of very careful adjustment, the floating piston often sinks below the mercurial sur-face during sudden ascents of the column, or lags behind it during its descents. In the lever kymograph this is never the case. However rapid the oscillations, the float never leaves the surface. 2. A pen carried at the end of a flexible lever accommodates itself to the paper much more readily than one which works in sliders, whence the tracing is finer, and the movement steadier. 3. The distance of any point in a which indicates that state of the However rapid the oscillations, the float never horizontal line on the paper which indicates that state of the manometer in which the two columns stand at the same level, is always in exact proportion to the difference in height of the two columns at the time to which the point corresponds; but the former (i.e., the vertical measurement of the tracing) is very much smaller than the latter. Thus, in my instrument, an actual difference of pressure of one inch corresponds to onethird of an inch in the tracing. The advantage of this is that, even if the range of variation of pressure in the course of an observation is as much as eight inches, the recorded on a band of paper of very moderate width. After all, the best way of judging methods is by the comparison of results. The exact conformity to each other of the tracings obtained under the same circumstances by the lever kymograph affords the best proof that it is a satisfactor; instrument.

Fro 14



F10. 14.—Dr. Sanderson's lever kymograph, for recording the arterial pressure and respiratory movements simultaneously.

Let us now investigate the tracings. Here are several obtained with the lever instrument, the characters of which are perfectly normal. About two inches below the tracing is a horizontal line drawn by the lever when resting in the post-

Fro. 15.



Fig. 15.—Tracings made with the instrument figured above. The arterial tracting is marked ar, the requiratory n. In the latter, the beginning of importation is infinited by the wetting already, a "of a operation, by \$\frac{1}{2}\$ via the importation is infinited by the wetting the are indicated by similar and the same art. The break is made by removing loss are indicated by similar atrooks. The break is made by removing loss are indicated by similar atrooks. The break is made by removing loss are indicated by similar atrooks. The break is made by the form the same art. For the traction of the same art. The bent most art to the same are the same ar

tion which corresponds to zero—i.e. the position it assumes when the two columns in the manounter zero of equal height This zero line is called the abeciss. The distance between it and any point in the tracing measured vertically is equal to a quarter of the mercurial pressure which existed at the moment to which the point corresponds. Below the abacies as another tracing, made by a second lever, which records the respiratory movements of the chest simultaneously with those of the heart. By comparing the coincident parts in the tracings, you see that the short wavelets correspond to the end of inspiration and the commencement of expiration, and the long ones to the pause between our respiration and its successor.

passe now wen one representant and to successor. I passes to we come to expend the second of the undulations. In every lymngraphic intention, it is to be rumembered that what is inscribed in not the actual movement of the artery, but the oscillations of the mercurial column. It is true that the latter are the immediate results of the former, and that the elevation of the distal culumn produced by each arterial expansion has some relation to the increase of lateral pressure, of which the expansion is the expression; but the mercury rices comparatively always, so that at the moment is tatian its accome the artery has already collapsed. Consequently, if the interval between each pulsation and its successor is very short, the extent of oscillation (or, as it is usually called, the excursion) of the manometer is relatively too small; and conversely, the extent of oscillation (or, as it is usually called, the excursion) of the momenter is relatively too small; and conversely conjustice of the collapse of the tartery. It falls back to equilibrium, and describes a curve, which (as you may learn by comparison) has the same characters as that made by the lever in returning to its original position, by whatever way—as sp,

manometer may have been momentarily disturbed.

This being the case, it is easy to understand that no condision can be derived from observations with the mercurial manometer, either as to the duration of the effect produced by each contraction of the heart, or as to the relative duration of the the periods of expansion and collapse. The use of the instrument is limited to the investigation of the mean pressure, and of those varieties of pressure of which the periods of recurrence are long enough to prevent their being interfered with by the proper oscillations of the instrument.

proper oscillations of the instrument.

If we desire to obtain a record of the exact interval of timebetween the close of one arterial expansion and the commencement of the next, or, what amounts to the same thing, to record
ment of the next, or, what amounts to the same thing, to record
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constitute and capture that it transmits the movements
of its own. The most perfect of such instruments is the socommunicated to it without mixing with them any movements
of its own. The most perfect of such instruments is the socalled *Peterymagraphion of Professor Fick. I regret that I
cannot above it you, and must therefore content myself with
cannot above it you, and must therefore content myself with
capturing of this metal. The countract of contract is
a print of wine, and communicates with the artery by means
of a connecting-tube containing carbonate of sods. As the
pressure increases, the crescents spring tends to straighteen,
and vice veral. Hence, if the proximal end is fixed, the distal
and performs movements, which follow exactly the variations
of arterial tension. These movements are of very small extent,
variations are expressed by the allightest and most transitory
variations are expressed by the callingth by a lover. As I have
never used this instrument, I cannot speak of its practical

In Fick's instrument the variations of intravascular pressure to be recorded are converted by the C-shaped spring and the lever arrangement attached to it, into rectilinear movements. As similar conversion takes place in every artery, the clastic wall of which expands with every increase of pressure on its internal surface, and contracts with every diminution of it. In internal surface, and contracts with every diminution of its officers is surface, and contracts with every increase of pressure on the mental of the contract of the contr

required to overcome it known, the elastic resistance of the artery is subject to unknown variations.

It is on this principle that the instrument invented by Pro-It is on this principlo that the instrument invented by Pro-fessor Chauvra, and now commonly known as sharey's phys-mograph, is based. Its purpose is to measure the complicated an attern undergoes whenever blood is forced into it by the heart, to magnify these movements, and to write them on a surface progressing at a uniform rate by slockwork. The way in which this is accomplished, and the significance of the records obtained, will be considered in next between

ORIGINAL COMMUNICATIONS.

ON SEWAGE AND PARASITES, ESPECIALLY IN RELATION TO THE DISPERSION AND VITALITY OF THE GERMS OF ENTOZOA(a).

By T. SPENCER COBBOLD, M.D., F.R.S., Correspondent of the Academy of Sciences of Philadelphia.

AFTER the considerate manner in which my previous paper was received by the Association, I now venture to submit a few further details, which may be regarded as supplemental to tow turner details, which may be regarded as supplemental to the data supplied by the former communication; and in select-ter that the data of the data of the data of the data of the the character of the remarks which full from Mr. Hope, Mr. Smee, Dr. Hawkasley, and Mr. Michael, and partly by the sug-gestions kindly offered by Dr. Buchanan, Dr. Stallard, and others, after the close of the last meeting. In view of determining the question at issue, it will tend to clear the ground if at the outset I observe that the sort of

practical evidence most needed is precisely that which cannot be readily obtained. Clearly, the examination of the flesh of Do resaulty obtained. Clearly, the examination of the flesh of beasts, reared fither upon, or by means of folder derived from, sewage-irrigated meadows, would, if conducted by an experience chemination logist, yield the required information. When Mr. Hope tells us that a cow fed for four years on his sewage farm competed for a prize at lest fleshfield show, that fact does not by any means astisfy me as to the freedom of the animal from measles and other entozoa. As I have, in effect, already urged, it is useless to talk about the absence of proofs of parasitism. it is insected to take about the absence of prosis of parasitism, as derived from sewage, when we have no adequate means of getting at the originate. Not only is it necessary to examine, post-mortem, animals which have been secretly hurried off to slaughter-houses as soon as they have displayed symptoms of unhealthiness, but we must also scrutinise the meat derived means the secret of the se from apparently healthy beasts sent direct from sewage farms. from apparently healthy beasts sent direct from sewage farms. It is all very well to say that mest for our markets is efficiently inspected. That it is intentionally so in all, and actually so in some instances, I do not doubt; but that the majority of eur inspectors possess the requisite knowledge of entorsol forms, guaranteeing aboulet efficiency in respect of their duties, I suphatically deny. Not only an I constantly interrogated respecting dublous appearances in the flesh of animals used as food, but an inspector in one of our largest cities has applied to me for specimens, to enable him to identify the cystic entorso

As regards the amount of egg-dispersion by means of sewage, I am free to acknowledge the impossibility of acquiring data capable of affording even an approximatively correct notion. On this score I do not care to insist upon the acceptance of On this score I do not care to mass apon the acceptance of conclusions which, for myself, only take up the position of strong convictions. If I express the opinion that we have a daily entry of 270,000,000 of the ova of intestinal worms into the metropolitan sewage, I can offer no proof as to the correctness of this surmise; or if I go further, and say that four times that number would probably be nearer the mark my convictions are not disturbed by any counter-assertion to the effect that the event is impossible. After all, allowing the numbers to amount to 1,080,000,000, that would, I reckon, only give us an average of one egg in seven ounces of sewage. Let those, therefore, who demand microscopic evidence as to the existence of entezoal germs in sewage, consider the amount of skill, time, and rationce requisite for the detection of the presence of an orga: a particle, having a diameter of 116 of an inch, and being concealed in such a relatively huge mass of offensive material

Into this question of dispersion, I cannot at present go

further; besides, it must be obvious that the consideration of the vitality of the eggs of parasites, under varying conditions, is the point to which our attention should be primarily directed, head have ever been made with especial reference to the sewage question, we are by no means destitute of facts of the highest practical value in this relation. My only regret is that the facts I have now to bring forward must be presented in so restricted and crude a shape. At all events, sufficient will be isolated data. isolated data.

Bilharzia Hamatobia.-Whilst the eggs of this entozoon are still in the urine, there appears to be neither the power nor the inclination on the part of the embryo to escape from its shell; yet from the moment when the eggs are removed from the urine and placed in water, a series of changes are commenced and carried on with extraordinary rapidity. In less than two minutes I have seen an hitherto motionless embryonic mass alter its form, become violently agitated, and burst ont of its envelope in the condition of a free swimming animalcule. envelope in the condition of a free symmung anisassous-commonly, more time is required, especially if any appreciable quantity of urine is allowed to remain in the new medium. Thus, to record only one observation:—On August 21 last, I placed a drop of fresh urine, containing twelve eggs of Bal-harzia, on a slide under the field of a one-inch objective glas-ing the control of narra, on a sude under the field of a one-inch objective glass; and to this I added about eight drops of drinking-water. The first embryo escaped at the expiration of 17 minntes, whilst two more emerged in another minute; the fourth embryo appeared at the end of the 26th minute, the fifth in 28, the strath in 32, the screnth in 34, the eighth in 37, the ninth in 38, the to both in 40, the eleventh in 43, and the twelfth in 48 minutes

respectively.

Omitting, purposely, a multitude of interesting details, I am bound to add some other particulars; the more so, perhaps, because the results were so much at variance with my expec-Thus, the strength and vigour of the escaped larvæ appeared to depend upon the relative quantity and purity of the water in which the larve were immersed. In weakly diluted urine they soon perished, and even also in water where diluted urine they soon persished, and even also in water where only a small quantity of decomposed regelable or animal 1000 eggs in a quart of clean water, to which less than a drachm of urine had been likewise added. In forty-eight hours not a single living embryo could be found. In fact, I subsequently ascertained that I could not keep the embryos subsequently ascertained that I could not keep the embryos alive for twenty-four hours in any water in which I had accidentally or otherwise introduced the smallest trace of mucus, blood-corpuscles, urinary crystals, or decomposing matter of any kind. All sorts of reagents speedily killed the larve. Mere discolaration by carmine solution, or by a drop of permanguants of potash, in the form known as Condy's hance—deadly houser or later following from the belimitaratine shapes-death sooner or later following from the disintegration and resolution of their bodies into minute sarcode mas and resolution of near comes into minute sarcono masses.

Still more rapidly poisonous effects were produced by the
addition of a little sherry or alcohol, though the strength of
the latter was not more than one part of proof spirit to fifty
of water. I will only further add that the development of the
larve was equally well accomplished in distilled water, and likewise, also, in brackish and sea-water. It may be said, indeed, that the addition of salt water revived the ciliated embryos when they were on the point of expiring in any non-saline

As regards Bilharzia, therefore, the above data, now publicly brought forward for the first time, undoubtedly appear to favour brought forward to the measures, minomorphy spycon to serve the notion that little harm can result from sewage distribution —so far, at least, as parasitism is concerned. For the sake of those who will, perhaps, have derived some comfort in this matter, I am sorry, therefore, to be obliged to add that our experiences with the eggs and larve of other parasites placed experiences with the eggs and larve of other parasites process under similar conditions give results which are in many respects precisely the opposite of those just recorded. For lack of time I cannot possibly do justice to this view of the case, but must content myself by offering the following fragmentary data :
Ascarides.—The eggs of the common round worm, Ascaris

lumbricoides, have been kept alive by Dr. Davaine for a period of more than five years. I have myself watched their development in fresh water through all the stages of yelk-segmenta-tion up to the stage of an imperfectly organised, coiled, intrachorional embryo, and have kept them in the latter condition for a period of three months. Davaine administered some of his five-year old embryos to rats, and had the satisfaction of finding a few of these eggs in the rodents' faces, with their embryos still living, but striving to emerge. He also gave eggen to a cow, and introduced others into the stomachs of dogs in small linen-covered flacks. As a general result, it may be said that the embryos escaped their shells, but those eggs in which the yelk-segmentation had not arrived at the early embryonal

stage remained undigested.

So far back as 1853, Verloren reared coiled intra-chorional embryos in the eggs of Ascaris marginats within a period of fifteen days, in distilled water. I have also reared the embryos of this species in fresh water, and have kept them alive for a period of nearly a year and a half, at the expiration of which time, and during the warm weather, some few of them suc-

ceeded in making their escape. According to Davaine, and speaking generally, the eggs of many nematode species will readily retain their vitality though long exposed to dryness, but their yelk contents will not go on developing during this period of exposure. In the case of Asceris tetraptera of the mouse, however, embryonic formation goes on in spite of the absence of external moisture. He has noticed the same thing in the oxyurides of rodents. Dryness does not even destroy the eggs of Ascaris lumbricoides and Tricocephalus dispar. It would seem, in short, that the eggs of nematodes, which normally take np their residence in cats, dogs, and the carnivora which reside in arid regions or deserts, dogs, and the carnivors which reside in arid regions or deserts, will develope embryos in ovo without a trace of moisture. Davaine thinks it is not necessary that nematode embryos should pass through any intermediary bearer, and he believes that they are often directly transferred to the stomach of their 'hosta' whilst adhering in the form of an impalpable dust to "hosts" whilst adhering in the form of an impalpable dust to the coats of their bearers, whence they are detached by the

animals' frequent habit of licking the fur.

With the eggs of the Ascaris megalocephala of the horse, I have performed numerous experiments. I have reared the embryos in simple fresh water, and have found them during warm weather escaping before the expiration of five months. I warm weather excepting better the expiration of new months. I have also succeeded in rearing these larve in pond mud, noticing, at the same time, that after their exclusion they grow more or less rapidly up to a certain point, after which they appear to stop. The addition of horses' dung to the soft wet mud in one case, and of cow's dung in another, neither appeared to advance nor retard the process of embryonal formation so long as the embryos were enclosed in their shells. On the other hand, when I reared the embryos in simple horse-dung, purposely kept moist, they attained a decidedly higher degree of organisation than those reared in wet mud or water. Having watched hundreds of these particular larvæ under varying conditions, I have come to the conclusion that, after their escape from the egg, their activity, growth, and strength is most marked whilst living in those media which happen to be the most turbid and

impure. One of the most desirable aims experimenters have in view is to get a true conception of the developmental relations of the little threadworm, which, I believe, infests some three millions of the inhabitants of this country. I have experimented largely with this entozon also, and I have tried in vain to rear it in a monkey. I naturally selected this animal, thinking that the conditions (in view of man's asserted relationship and antecedents) might turn out to be eminently favourable. However, I only obtained negative results; and as regards the rearing experiments, under other conditions I only once succeeded in producing that vermiform stage of embryonal development which, as is now known from Vix and Leuckart's researches, succeeds that of the tadpole-shaped condition. I researches, succeeds that of the tadpose-anapea conductor. I did not, in short, expose the eggs in water to a sufficient increase of temperature. In this connexion, Leuckart remarks ("Die Menschlichen Parasiten," Band ii, a 329)—"One only needs to expose the eggs of the human threadworm to the action of the sun's rays in a moistened paper envelope, when already, after the space of five or six hours, the tadpole-shaped embryos become slender, elongated worms, which are not altogether unlike the sexually mature oxyurides in form, displaying under the warmth rather lively movements." Leuckart playing differ the warmit rathed viety introduced. Some also finds that, in cases where the eggs have remained for a lengtheased period in the intestinal canal, the embryos acapable of developing into this elongated or vermiform stare whilst still in the human bearer. Speaking of these intra-horional embryos, he says—"Not only are these clongated embryos found in the frees, but also in the mucus of the rectum above and around the anus."

To cut the matter short, Leuckart holds, in partial opposition to Vix, that, generally speaking, or under ordinary circum-stances, the vermiform large escape from their egg-shells when the ova have been swallowed by some new bearer. In other words, we take in the eggs either with food or with drink, or in some other way; and it then follows that, if their

embryonic contents have sequired the vermiform stage, tha embryonic conheats have asquired the vermiform stags, the gastrio juice, aided by the struggles of the enclosed embryo, will ensure the escape of the larra. For myself, I will only asy that, for the ultimate development of the nature worm, I cannot yet follow Davaine and others, and so disallow the neces-sity wither of an intermediary saimled or vegetable bearer, or, falling these, the assumption of a higher larval stage, either in motie carth, soft mad, or open waters. The question is by nomeans settled.

I may here add, parenthetically, as it were, that during my attempts to rear oxyurides in rotten apples and pears, I fell in with two species of Anguillula, severally belonging to the genera Aphelenchus and Plectus established by Dr. Bastian. t allude to them here merely in reference to their extraordinary tenacity of life. Thus, although these free nematods worms were perfectly dried up in portions of fruit which had been kept for several days in a hard and even brittle state, they re-vived and resumed their worlded activity "after seaking for a

few hours in water.

At the risk of doing positive injustice to a truly large and complicated subject, I must now bring these brief and, I fear, somewhat desultory remarks to a close. As regards the tenise, it is notorious that they are supplied with remarkably thick egg-shells, and, were this not the case, it is difficult to underegg-shells, and, were this hot the case, it is unionic to unnex-stand how their enclosed and delicate is al-hocked embryos-proglottide. How long they are able to retain their ritality when dispersed by sewage and other means is a point worthy of further inquiry; but, meanwhile, taking into consideration various data derived from indirect sources, I strongly suppor-turious that derived from indirect sources, I strongly supporthat Küchenmeister was not far wrong when he surmised " that the eggs might lie through the winter in ice and snow, be carried about in the water for months by the stormy weather of spring, and yet at the expiration of this period develope their brood as soon as they have arrived at a suitable intestine Into cesspools and drains, as he elsewhere says, "the tapeworms of the human subject vacuate their eggs; the eggs are then thrown upon grass, roots, and other vegetable matters, along with liquid manure, and they are swallowed by pigs, which wallow in such filth." He might, also, have added that, on sewage farms, the cattle likewise must needs come in for their share of these measly-meat producing germs.

NOTES ON THE ENGADINE. By R. WHITFIELD HEWLETT, M.D.

ST. MORITZ AND ITS NEIGHBOURHOOD.

Much has been written about the Engadine, its climate, its air, its waters, and its baths, but much has been said that would, perhaps, have been better not said, and much left unwritten that might with advantage have been communicated. At the present time, there seems to be a danger of the Engadine, At the present time, there seems to be a tamper of the Linguistic, especially of St. Moritz, being over-rated on the one hand, and not sufficiently appreciated on the other. It will be my object, in this and in my subsequent letters, to describe St. Moritz as it is—its merits and its deficiencies; to draw, as far as possible, with dispassionate hand, a picture of the relative importance of its air and its waters, of the class of cases for which it is and for which it is not adapted, and to suggest the steps which ought to be taken by the communal authorities, and by the landlords, to improve a state of things that is most defective.

The valley of the Engadine, as many of your readers are aware, is situated in the Canton Grisons, the most eastern

canton of Switzerland. Commencing on the Italian side at Maloja, a small hamlet situated at the upper extremity of the Val Bregaglia, it extends from south-west to north-east, and terminates at Martinsbrück, on the frontier of the Tyrol. Its breadth varies from half a league in the lower Engadine to more than a league in some parts of the npper valley.

At once the highest and largest valley in the Alps, it is girt by mountains, on the north-west and south-east, which, in beauty, grandeur, and height, can compare with the better-known mountains of the Oberland. The Rhodian Alps, on the north-west, attain an altitude varying from 10000 to 11,000 fect, while to the south-east the Bernina rears its snowy creat to a height of 13,500 feet above the sea. The legislit of the valley at its Tyrolese frontier is 3400 feet, and at St. Meritz, its culminating point, is 6100 feet.

The climate and products, no less than the character and habits of the inhabitants, divide the Engagine naturally into two parts, called respectively "the Upper" - d "the Lower"

Engadine. The former, with which alone we are at present concerned, extends from Maloja on the south-west to Capella on Through it runs the sparkling Inn, which, fed the north-east. by the beautiful lakes of Sils, Silva Plans, and St. Moritz, rushes on with ever-increasing force to Innsbruck, the capital of the Tyrol. The climate is severe. The culture of corn, and, 1 yroi. Ine cumate is severe. Ine culture of corr, and indeed, of almost every other crop, is unknown; occasionally meagre fields of potatoes, cats, and yre are met with. The larch and the Pinns combon, a troe but little found in any ether part of Switzerland, flourish here to a height of even 700 feet. The some-line does not extend below 9430 feet, while on Mont Blanc 8900 feet, and on the Pyrenees 8400 feet are conaidered respectively the extreme limit.

There are five villages in the Upper Engadine that deserve

According to the vising situation of the control of and has reflected fame upon the villages that cluster round it.

Siles Plans, situated at the foot of the Julier, 5958 feet above

the sa, is the first village of the Engadine that greets the traveller on his descent from the Julier Alp. Well sheltered from the north and north-west winds by the uprising mountain, with a number of charming walks and views, Silva Plana offers a Salkatstein of the same of the sam delightful residence for those who dislike the noise and bustle of a large establishment, and do not wish to drink the waters or take the baths of St. Moritz, which are four miles distant. The hotel (Poste) is quiet and comfortable, and has the advantage of being managed by a lady who speaks English, and is most attentive to the wants of her guests.

Campfer.—From Silva Plana the road gradually ascends for

about two miles to the hamlet of Campfer, where there is a first-rate hotel, the Julier. Situated about 6000 feet above the sea, protected from the north and north-easterly winds, within easy reach of the Kurhans, either on foot through a picturesque pine wood, or by emilbus, which plies to and fro several times in the morning, Campfer is about the same distance from the baths on their southern side, as St. Moritz is on their northern, and in my opinion ranks next to the village of St. Moritz as a desirable residence for those whe come to the Engadine to derive

benefit from the air and water.

Samaden .- Issuing from the northern extremity of the St. Moritz lake, the Inn falls through a rocky wood, the eastern shield of the village of St. Moritz, to the level of the valley in which Samaden, the most fleurishing village of the Engadine, is situated. The valley, widened here by its junction with the Val Pontresina, lies 430 feet below the Dorf St. Moritz, and is ver contentia, nos aso ret, polow ins Lorr St. micrit, non in through its plains with great vidence. It will be from any swampy, and a cloud of vapour often hugs the immediate neighbourhood of the river. Starting early one morning from St. Moritz to ascend the Piz Lanquard, I noticed that Samaden was quite hidden beneath a thick cleud of mist. The white spire of the church alone rose above the vapoury shroud to tell of the life below it. Samaden is well protected from the north, but its exposure to the east and south winds, its proximity to the river, which often overflows its banks, the awampy soil, render it, as a residence for the delicate, undesirable in summer and impossible in winter. Though ague is said to be very rare amongst the natives here, one case has come under my

A delicate gentleman alept at Samaden for two or three nights with his window open, in a room looking on to the river anguing with mis window open, in a room sooming on to the river and the plain. A few days after he came under my oare with decided symptoms of malaria poison, which required the free exhibition of quinine. The weather just before had been fatenesty hot, and I doubt not the drying of the ewampt beggy soil under intense solar best had generated the malaria

The Bernina hetel enjoys a great reputation for its excellent

Postresina, situated in a narrow valley running at right angles to the Inn, is too much exposed to the north-west winds, soo near the glaciers, and too draughty to be suitable at any season for a delicate person. But it is a delightful residence for the strong and sotive, as it is the centre of almost all the mountain excursions. The Kreuz, Krone, and Hemboch are the best hetels at present.

St. Moritz.—Under the head of St. Moritz are included the Dorf or village of St. Moritz, and the vast establishment of the Knrhaus situated around the source of the springs.

The village, 300 feet above the level of the Inn, and 6100 feet above the see, lies along the alope of the Piz Nair range, which, rising to a height of 10,000 feet, completely abelters it from

the north and north-west winds, while some gently rising ground to the east, and a thick pine wood which clothes the hill as it falls to the level of the Inn, break the force of the

hin as it falls to the seven of the lim, break has force or the keen winds that sweep the valley in which Samaden lies. The Kurhaus, 300 feet below the village, and only a few feet above the level of the Inn, is situated in a narrow part of the swampy valley, and is but ill adapted from its position for the delicate. Often in early morning a shrond of mint may be seen hevering above and around the baths and hotel. The soil npon which the latter was built was so swampy that piles of wood and stones had to be sunk before its foundations could be laid, and the grass around is of the peculiar yellowish-green colour so familiar to the inhabitants of boggy soils. The mountains, nprising on either side, narrow here the breadth of the valley, and create a dranght, from which the village is free, conditions. which seem to me to ebviate in great measure the influence of perhaps the most life-giving element of this district—the pure dry atmosphere.

The Village.—There are only three hotels I can recomm in the village—the Külm, Pension Suisse, and the Post. The other hotels, and even the Post, are principally frequented by Germans and Italians, and are not adapted to the wants of

English invalids.

The Food.—We refer to the reports of "starvation at St. Moritz, and the impossibility of obtaining good food," only to contradict them. The fare at the Pension Suisse is very good, contradict them. The fare at the Pension Suisse is very good, and at the Külm, on the whole, plain and good. Travellers who cannot be happy without the delicacies of a French cuisine had better, as a rule, keep away from an Alpine village. this amusing, however, to see how gradually the keen mountain appetite overcomes the fastidionsness of the bon viesar, how little by little the fleshpots of London and Paris are forhow little by little the meanpots of London and raris are our-gotten, and our dainty friend awakens to the consciousness that eaf au lait without chicory, delicious butter, pure milk, a good steak, and Alpine mutton may be, on the whole, more agreeable to that long-suffering and much-abused organ—the modern stomach—than are the recherche dishes of a Parisian cuisine.

Heating—One thing, however, most essential to the comfort and health of the traveller is, we must confess, conspisonous only by its absence—Viz., a proper system of heating the rooms. In a climate in which snow may fall during any month of the year, and the thermometer fall for many nights, monance see year, and the tearmoneter ran of many nights as during the past week (August 21 to 25), to within a few degrees of freezing-point, it is needless to say the changes of temperature are very green. Many of the rooms are without any heating apparatus. Some have a torre, but the trouble of lighting it, the dry best, and the smell of these extrapolations are the contractions of the contraction of the c iron is frequently a greater trial than the cold. The sails a manger and salon de lecture at the Külm are badly heated and

measure and sates at lecture at the Autim are Dadity nested and badly ventilated, and the atmosphere injurious to an invalid. Drainage.—St. Moritz, possessing the greatest facilities for a good system of drainage, is one of the most badly-drained villages in Switzerland. The drainage is partly by water and partly dry, and, as usual, the half system is worse than no system at all. One house has a free supply of water, another an open cosspool which poisons the whole neighbourhood, especially after rain; a third uses Moule's earth system. The main drain, as it passes through the principal street, is un-trapped, and the smell is sometimes horrible, while another much-frequented walk is made at times almost intolerable by

much-frequented walk is made as times along an open swert.

We cannot to strongly urge the importance of a throughly will erganised system of heating and drainage. The rooms must be properly protected against visitation of a state of the control traveller will seek in other valleys a spot without the para of the most life-giving and purest air in the world contaminated by the emanations of open sewers and the foul odours of the

stable and cowshed.

Private ledgings are difficult to obtain, unless ordered some time before the season begins, and very expensive: 30 fr. and 40 fr. a day are often asked for three moderate-sized rooms. They do not supply pension. Dinner, if required at home, must be brought from a neighbouring hotel. The erection of more houses will, however, tend to lower the exorbitant prices more nouses will, nowever, tend to lower the exceptional prices new asked. I have only one more drawback to point out, with its appropriate remedy, to the landlords of St. Moritz. After taking a bath, it is most important that the bather should not be exposed to a chill or to undue fatigue: in some cases it is desirable to go to bed for a short while. The distance of St. Mgrits and of Campfer from the baths, especially in cold weather, is a difficulty that might be very much obvisted by a well-regulated service of chain-d-perteur, or covered sedan, to convey bathers from the bath to their hotel.

convey bathers from the bean to their notes.

If these wants be remedical (and how simple the remedy!),
St. Moritz need fear no competitor in the Alps. It is impossible to imagine any spot that could offer a more varied combination of natural beanty. The sublime, the beautiful, whatever tends to existe in the soul of man the most exalted ideas ever tends to excite in the soul of man the most existed ideas of a Creative Power, on the one-hand, and to instill into him, with that strange, mysterious influence that Nature only possesse, the hear instincts of life and health, on the other, are more proposed to the strange mysterious influence of the placed lake—mingles here with the colder beauty of a sterner climate, and, in the silent majesty of the rugged peaks, in the icy grandeur of the eternal moves, in the pine-clud alopes reflected in waters of emerall hus, presents a picture of which the eye never wearies, franked in the color of t freshed, invigorated, and ennobled.

THE EXTERNAL APPLICATION OF CARBOLIC ACID IN CASES OF POISONED WOUNDS.

By PATRICK O'CONNELL D'OYLE, L.K.Q.C.P.I., Assistant-Surgeon Royal Navy.

THE successful treatment, in my hands, of poisoned wounds by the application of carbolic acid to them, leads me to say a few the application of carbolic acid to them, leads me to say a few words on the subject. When we come to consider the accessive danger to the patient, and the mortality in cases of poisoned wounds, it becomes our bounden duty (in my opinion) to make ourselves familiar with every mode of treatment, no matter how trivial, likely to be useful and successful. Various as are the modes of their treatment, local and general, the fatal results frequently attending these clearly demonstrate to us that much has still to be learned relative to them. I purpose giving my capreliments on flows relative to the treatment of

poisoned wounds by carbolic acid.

During the Niger Expedition of 1868, being in Medical charge of H.M.S. Investigator, and having to pass through a charge of H.M.S. Investigator, and having to pass through a hostile country, where poisoned arrows and spears were the principal offensive suppose, procured several freally-poisoned their thighs, and ran the head of the arrows through their most fleshy part. The arrow was allowed to remain in the wound rather more than one minute—in some instances as long as ninety seconds. As I withdrew the arrow, I poured inguested, unflutted earboile and into the wound, taking speedal care to make it come into contact with every portion of it. A small bandage was now applied over the wound, and the fowls isolated. On one-half of the fowls operated upon—or, more properly speaking, inoculated—no carbolic acid was used, and properly speaking, inoculated—no carbono and was used, and I found every one of these die in a space of time varying from one to twelve minutes. On the other hand, those I used the acid with lived, and seemed not to suffer from the effects of the poison, although a great deal of discoloration was visible around the wound for several days. This gradually disappeared. None of the fowls that died did so until the withdrawal of the arrow and the exposure of the wound to the air. I must confess that my experiments were very limited, but I cannot attribute to chance the uniform results obtained, and therefore I am led to recommend the application of carbolic acid to poisoned wounds.

The following experiment I also made. Having scraped the

superficial coating, down to the iron (but taking care not take any of this), from the head of a poisoned arrow, I dissolved it in ether, and, on adding carbolic acid to this solution, a white It in ether, and, on saturing carcours scat to this sometime, a write precipitate, somewhat resembling albumen precipitated from urine by nitrie acid, was thrown down. I inquired very minutely of the native interpreters as to the mode of poisoning their arrows, and the treatment adopted if a native be wounded by one of them. I was informed that some plant, whose nario or appearance I could not find out, was obtained, and a decoc-tion of it made; a snake's head reduced to powder was then added to the decoction, the whole boiled down to the consistence of a syrup, smeared upon the arrow-heads and allowed to dry. or a syrup, smeared upon the arrow-means and moved to arry-l am aware that the poleon used we remain a contract of the theory of the contract of the contract of the contract of the a purely regetable one, but my inquiries lead me to think this is a mistake. It was most particular in seeking and obtaining information on this subject, and in every instance my informants spoke of a make's head reduced to powder as being added to

the infusion. The snake must have been of a poisonous character, and recently killed. Now, as to the treatment adopted. racter, and recently silice. Now, as to the freatment adopted. If a native be wounded by a poisoned weapon, some of their antidote is chewed and as quickly as possible applied to the wound, and then a dose of it is swallowed; this, I believe, invariably acts as a powerfully stimulating emotic, and it is upon this action they place the chief reliance. "Suppose he no puke proper he die," said the native interpreter to me; in fact, their experience has taught them the emetic action is the one to be relied on. Human excrement is sometimes used instead of a better antidot, but they only apply it to the wound. Their antidotes, with the exception of the last-named, are of a vegetable character. The poison takes but a very short time to kill. Several natives, who were wounded while we were destroying a village, were unable to reach their boat, although it was distant only a few yards.

In conclusion, I would recommend in cases of poisoned In conclusion, I would recommend, in cases of poisoned wounds, the instantaneous application of strong carbolic acid to the part, every portion of the wound being made to come interest to be a superior of the strong and the com-tinguistic mention, and the reliasequent use of simulants, and suggesting that the value of carbolic acid may depend on its neutralisation of the poison, and also its power of preventing decomposition, I may express a hope that this plan of treating poisoned wounds, which, as far as I am concerned, I have never read or heard of before, may prove serviceable on future occasions; and if so I shall consider myself amply rewarded.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

KING'S COLLEGE HOSPITAL.

OPERATIONS.

Ligature of the Subclavian Artery (by Sir William Fergusson)-Ligature of the External Riac Artery (by Mr. Henry Smith.) THE operating theatre at King's College Hospital was crowded last Saturday, February 18, for it had been announced that Sir W. Fergusson was to tie the subclavian artery, and the rare opportunity of witnessing this operation attracted, besides many students from other schools, not a few Hospital Surgeons. After Mr. Henry Smith had obliterated some varicose veins in a man's leg, the patient with axillary aneurism was brought in, at once placed under chloroform, and the operation commenced. Owing to the depth of the vessel, and the fact of some of the fibres of the edge of the scalenus anticus being spread over it-points referred to by the operator in his subsequent remarks—the proceeding was somewhat unnsually difficult, and the first single incision, free though it unnually difficult, and the first single inclision, free though it seemed to be, required to be enlarged more than once before the reseal was sufficiently exposed for deligation. There seemed to be no special trouble about passing the literal round the benefit of the property of the property of the form before backwards. When, by slightly elevating the vessel, and compressing it with the foreflagor, it was found that the pulsation in the ancurism was completely controlled, the usual knot was tied, and made secure by two additional turns of the thread. Both ends of the thread were then tied together, and allowed to hang out of the wond, which was n np.

In his subsequent remarks upon the operation, Sir William stated that the patient was aged 53, and had been a sailor up to a very recent date. About three or four months ago the man thought that he had "ricked his arm-pit," an exceedingly likely occurrence amongst sailors, and since that time he ha received a pulsating swelling in the axilla. Sir William had kept him under observation for some weeks past, during which acp: nim and to observation to some whose person and when a time he had noted a steady increase in the tumour. Continued pressure upon the vessel had been tried, but it was found that the artery was too deeply placed for this to be satisfactorily applied, and the man could not bear the attempts. It was therefore resolved to tie the artery. The operation which had just been performed presented many of the difficulties referred to in text-books, and, certainly, not those occasional facilities which have led some Surgeons after an unusually easy operation to speak lightly of its difficulties, and rank it amongst the more simple of Surgical proceedings. On this occasion, probably the average amount of trouble had been given. But, in truth, he (Sir William) had seen very little of the operation. Without desiring to appear egotistic, he might boast of, perhaps, unusual experience in operative Surgery, and yet in forty pears of active engagement in tying vessels, etc., he had only once before had occasion to tie the subclavian artery, and that was now forty years ago; nor did he remember to have witnessed it, although, of course, the vessel had been tied by others several times meanwhile. Still, what he had said was sufficient to indicate that the operation was a tolerably rare one.

In the present case, Sir William said, the students had noticed that he began with a free incision, but even this had noticed that he organ with a rice incision, one even this had to be frequently enlarged, and a crucial incision was required. After the platysma was divided, many small veins came in the way, and cozed a good deal. Many attempts had been made in the ward to determine the precise position of the omo-hyoid in the warst to determine the precise position of the ome-hyoid muselo, but without success, and during the operation there was come little trouble in making out this point. It is so good that one should always seek carefully for it. On this occasion, as soon as Sir William came upon the cross fibres of this musele, he hooked it at once upwards and outwards, and then specially found the vessel, which was distinct enough to the fringer, but not but eve, as some fibres of the anterior scalemas nnger, out not to the eya, as some horse of the anterior scatenias were apread over it, and required some nice entiting before the vessel was fairly freed for deligation. A peculiar feature in this case, not referred to in books, was that the man had wrist-drop on the affected side—no doubt from pressure of the aneurism upon the brashial ploxas. A difficulty, noted in text-books, and met with here in a marked degree, was one which had sometimes caused even first-class Surgeons to fail in the operation—namely, the great depth of the vessel, which did not come nearly up to the level of the clavicle. This was due in such cases to a babit, acquired in consequence of the pressure in the armpit, of raising the shoulder constantly, and this occasionally so altered the position of the vessel that first-rate operators had been occasionally compelled to abandon the

Mr. Henry Smith's patient was next brought into the theatre—a woman, aged 35, with a large ancurism of the theatre—a woman, aged 35, with a large ancurism of the right femoral artery in the groin. As soon as chloroform had been given, Mr. Smith commenced with the usual curved incision above the groin, making it sufficiently long to expose the common like vessel, if this should prove necessary. The acceeding steps of the operation were performed with unusual acceeding steps of the operation were performed with unusual scale of the common steps of the congratulated them apon Articus and formation two such innovature operations their rare fortune in witnessing two such important operations teer rare fortune in witnessing two suon important operations on the same occasion. He pointed out the difference between the two cases, and alluded to a very similar operation to the present which he had performed last summer. The patient had been under treatment in the ward for two or three weeks, and was to have been brought down on the previous Saturday, but she had taken fright, and left the building suddenly. While at home, however, the tumour rapidly and painfully increased, so that, on her readmission after five or six days, the swelling was found to extend an inch higher above Poupart's ligament. For the benefit of those who had not before witseed the proceeding, Mr. Smith explained at length the steps neswed the proceeding, Mr. Smit arghined at length the steps of the operation, which was performed strictly in accordance with the directions laid down by Sir Astley Cooper. In the course of these observations, he took occasion to remark that, for his own part, he paid little heed to the cransverse fascia in dissecting down upon the vessel. This fascia was made much of in books, but Mr. H. Smith could only say that the had never over seen it, and he had certainly only say that the had never over seen it, and he had certainly never been able to recognise anything so definite as to need slitting up on a director. In like manner, he would note that the vein should be really well out of the way—in fact, he had never seen the vein in performing this operation. It should be borne in mind that a too eager operator might turn np the artery with the peritoneum, as Mr. Smith himself had once done, and then look in vain for the artery in its usual position. Further, although this individual case happened to be as simple as one could possibly wish, they must remember that this sim-plicity could never be predicated, as a mass of enlarged and matted-together glands might obscure the vessel, and render

the operation one of the greatest difficulty.

We are glad to be able to add that both patients were making capital progress when we heard of them again, three or four days subsequent to the operations.

BIRMINGHAM GENERAL HOSPITAL.

THREE CASES OF LOCAL PARALYSIS: IN TWO, ACCOMPANYING DISEASE OF THE CENTRAL ORGANS OF THE NERVOUS SYSTEM; IN THE THIRD, CONNECTED WITH TREMOR-QUESTION OF SYPHILIS AS A CAUSE.

(Under the care of Dr. RUSSELL.)

I have grouped these three cases together, as they all present nervous defect in one of the upper extremities—a defect, however, differing in each instance

In the first two cases the defect was accompanied with distinct evidence of central disease: spinal in the first, and protinct evidence of central disease: spinal in the first, and pro-bably connected with the membranes; in the second, in part, at least, intracranial. But in each patient the disease in the single limb possessed special premiarrities. In the case of the paralysed lower extremities were fully re-spected, and whilst the entire system of motor nerves of the limb was enfeebled, an altogether disproportionate amount of paralysis fell upon particular muscles, with so much caprice as to resemble rather a case in which the lesion affected the numeles than the nerve trunks. This tregularity in the the miscres that for nerve transs. Ansurregularly in the distribution of the paralysis was specially evidenced in the group of muscles supplied by the the muscule-spiral nerve. The advanced atrophy of the paralysed nuncles, and their insensibility to faradisation, are both significant either of losion of muscular fibre or of nerve trans. It will be seen, however, of muscular note of of new terms. It will be seen, however, the that, besides the evidence of the presence of central disease, no proof of any influence operating directly upon muscle was forthcoming. In the second case the local defect consisted in interference with the sensitive fibres of the ulnar nerve, and also with the sensitive nerve or nerves of one foot and log. Here there was also singular hypersesthesia in certain other

The third case is one of tremor of the arm, combined with some weakness and wasting of all the muscles of the ex-

some weakness and wasting or all the muscles of the ex-tremity, sensation being intact.

There is reason to believe that the syphilitie poison existed in all three cases, and the irregularity of the nervous develop-ment in all is strikingly conformed to the peculiar characteristic

ment in all is strikingly conformed to the peculiar characteristic of sphilitic disease in the nervous system—its want, namely, of conformity to any of the naul types, and the great breadth and irregularity in the distribution of its lesion. I aboud refer to a very interesting series of cases of local paralysis, published by Dr. Broadbent in the British Medical Journal for April 30, 1870.

Case 1.—N. H., aged 37. This patient presented, in the first place, complete paralysis of the lower extremities, with scarely perceptible impairment of sensibility, and "th heavy complete perceptible impairment of sensibility, and "the second place." retention of control over the sphincters. In the second place, execution or control over the spiniteress. In the second place, whilst the left arm was healthy, the right upper extremity was enfecthed to a certain, but very moderate degree, as regards all its muscles; but the paralysis fell with extreme severity npon certain particular muscles, almost completely disabling them. At the same time, senability was intact over the npon certain paraeums time, sensibility was intact over the entire limb. The muscles almost completely paralysed were the following:—Those constituting the anterior and posterior boundary of the axillary cavity, including both great and little pectoral, excepting only the claricular fibres of the former, which retained power; the deltoid was vigorous, and also the contract of the which retained power; the detout was regorous, and also the scapular muscles; but the extensor of the claw blick the extensors of the write, and also the supinators, retained the same amount of contractile energy which belonged to the flexors and pronators. The fingers were habitually semi-flexed, and could not be extended; but the writt did not drop; and, when the hand was laid upon a table, no increase of and, when the hand was laid npon a table, no increase of extending power was acquired by the finger muscles. All the intrinsic muscles of the hand were fairly vigorous. The seat of the paralysed muscles was necurately defined by the nee of Stohrer's battery, and by the wasting they had undergone. The prantysed muscles were greatly atrophica, and were neutral insensible to the current. The posterior bound, with the little and the sternal fibres of the property of the control of the and the sternal fibres of the posterior bounds, with the little posterior of the property of the sternal posterior bounds of the parallel posterior bounds. The posterior bounds was the parallel posterior bounds of the little muscle, which were plainly visible beneath the scanty remains of the pectoralis major, the clarifular fibres of the latter muscle, which were major, the clavicular fibres of the latter muscle, which were preserved, standing forward as a prominent mass. The distinctness of the deltoid from the neighbouring muscles almost amounted to deformity; the triceps was attenuated, and the back of the forcarm was flattened, but not hollowed. It was

T

Edinburgh from India.

interesting to notice that, whilst the battery current directed upon the back of the forearm caused instant extension of the wrist, it entirely failed to move the fingers. On the other hand, the supinators and flexors answered at once to the battery, and retained their plumpness. The forearm had lost three-quarters of an inch in girth, and the npper arm nearly two inches. As already stated, ne imperfection was discoverable in sensation. already stated, no impertection was discoverable in sensuation. There was not a trace of lead in the gums. The heart and the urine were healthy. The patient admitted suppurating bubbes, but with scanty discharge, two years ago; he had ague, as a suppuration of the state of the soldier in India, four years ago, and two fits et ague twelve months since. He had no enlargement of his spleen. He lost the use of his legs quite suddenly, seven months ago, lost the use of his legs quite suddenly, seven months #go, having suffract, during the preview day, from seven lumber palms which, however, did not extend into his limbs, though he has a proper to the same palms and the same time he suffered severe pains in the region of the deltoid. There was ne affection of micturition for three months, and then only to a slight extent. The only assignable cause was the operation of odd, which he felt severely on landing in

Case 2.—E. S., aged 56. She walked with some difficulty, and was soon disabled by fatigue. When sitting, she moved her legs freely; but in walking, advanced them slowly and with age i recry; out in waiting, advanced them slowly and with caution, especially when turning round. She had no headonch, but her head was light, "things went round with her," whether sitting or lying, and she had a fear of falling, her fancied ten-dency being always to fall to the left side. But, in addition, her right arm was impaired in power for delicate operations, as was most plainly seen in her writing. I could not obtain any evidence against the perfect integrity of the opposite limb. Muscular nutrition in all the extremities was excellent. Electromotility was remarkably low throughout the body, but equally so in every part. As regards sensation, advanced ancesthesia existed along the entire inner and chief part of the posterior aspect of the enfeebled arm, involving likewise the two inner fingers of the hand (the radial side of the ring-finger as much as the ulnar side). The same defect existed in the dorsum of the right foot and up the right leg. (I have neglected to define the situation of the insensibility more accurately.) These twe districts were equally ansesthetic to faradisation; whilst the outside of the right arm and the opposite leg were hyperesthetic to the current, the patient crying out the moment she felt even a very feeble current; the left arm, on the contrary, preserved its normal relation to the battery. The patient also complained very much of a tight feeling around the base of the chest, and of paroxysms of pain which set in quite suddenly and lasted several days. The pain began in the region of the dorsal muscles of the vertebral column on one side, slowly ascended to the shoulder, and, in the course of days, descended second to the snouncer, and, in the course of mays, resembled through the opposite shoulder to the corresponding spot on the other side. The cerebral nerves were all quite healthy. The optic discs, however, were cencealed by abundant remains of former iritis. The left tibia and left ulna were enlarged; and a cicatrix covering the seat of carious bone existed in the forehead - the result of an abscess with exfoliation-both the abscess and the calargement of the tibia dating only from a year ago. The cartilage of the nose was partially flattened; it was perfe-rated, and a superficial ulcer existed in the mucous membrane. The tonsils were free from cicatrices. No evidence of syphilis was obtainable from her history. She had lost all her teeth from a fever when young. Vision was impaired in the right rrom a rever when young. Vision was impaired in the right eye after this fever; in the left, during the past year. Such was all the information we could gain. She had noticed the want of feeling in the arm for four years. Two years ago she was taken with a fit, in which she did not lose consciousness; she kept her bed three weeks, and has suffered from her

present symptoms ever since.

Case 3.—J. H., aged 37, was admitted with tremor of the right hand and arm. The tremor was constant; it affected the fingers and the hand: to a less extent the forearm; it was much augmented by muscular effort, and then involved the upper arm also. The grasp with the hand was decidedly enfeebled; flexion and extension of the elbow were powerful. feebled; flexion and extension of the albow were powerful. The entire group of muscles affecting the right upper ox-tremity, including those influencing the shoulder, were some-flexed and the state of the shoulder, were some-flexed and electro-sensibility were everywhere perfect, electro-modility was more exalted in the tremulous muscles than in those of the opposite forearm. There was considerable disease of the osseous system, in the shape of enlargement of certain bones. The middle third of each humers was enlarged, and on the left side was tender. Both clavicles were much

thickened. In the right clavicle the thickening involved the entire length of the bone, which at its sternal end was an inch and a half in breadth. The spine of the left scapula was broader than of the other, and there was some increase in the broadh of the left tenth rib, with tenderness. The only venereal symptom which the patient admitted was a gleet fifteen years ago. He has been married eleven years, and has had four healthy children. My account of his previous history is unfortunately meagre; it merely states that two years ago the patient had what he called rheumatism, which affected the patient had wan he cande rheumatian, which arecess most of his joints, but especially the right shoulder and arm; the disease was not attended with swelling. It has laid him by two or three times since. Last summer he had "lumps" on his head, and has never worn a hat since. His heart was healthy. His urine contained some albumen. During the year preceding his admission he had emaciated considerably.

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Medical Times and Gazette.

SATURDAY, FEBRUARY 25, 1871.

THE SMALL-POX EPIDEMIC.

THE registered mortality from small-pox in London has risen from 211 to 218 in the week which ended on February 18. Of these deaths, 65 belonged to the East districts, 50 to the North, 42 to the Sonth, 41 to the West, and 20 to the Central districts of the metropolis. The fatal eases thus show a decline in the East and West, while they have increased in the other districts, and remarkably in the North. The Registrar-General tells us that during the thirty-one years 1840-70 the disease may be said to have been epidemie nine times, and that in nearly all these instances it appeared in the latter part of the year, and lasted from one to twe years. The most severe of these visitations was that of 1840-1, when the highest weekly number of deaths in the thirty-one years occurred-namely, 102 in the last week of 1840. That the present epidemie is more severethan any during the thirty-one years is shown by the fact that the average weekly mortality for the past nine weeks has been 152, while in an equal number of weeks during the previous most severe epidemie, 1840-1, the weekly average was only 71.

Publicarrangements for the arrest of the spread of an epidemio of small-pox are based upon the acceptance of the doctrinethat it is communicated from the sick to the healthy, that the disease does not arise spontaneously out of any imaginable combination of influences in the absence of a case of the disease from which a contagion may be derived. In other words, notwithstanding that certain years, certain seasons, certain kinds of weather manifestly are favourable to the extension of the disease, ne individual suffers unless he has received, either immediately or mediately, into his circulation a specific morbid product derived from one already sick with small-pox. Still it is curious to observe that a doctrine so well established as this is, and one which is generally accepted by the educated classes of society, has not yet thoroughly filtered down into its lower strata. The ready manner in which the poor expose themselves to contagion does not all proceed from the recklessness engendered by the hand-to-mouth way in which they live. We have had reason to know that much of it is the result of sheer ignorance of the fact that small-pox is a highly contagious disease, that it is communicable by intercourse with the sick, and through the medium of clothing, etc., which they have used or which has been lying in their neighbourhood. Hence we are constantly meeting with instances of persons who have been waiting on the sick spreading the disease by visiting their friends and neighbours without changing their apparel; of washerwomen and manglers carrying on their businesses in the very room occupied by a small-pox patient, and communicating the disease through the medium of the articles they send home from their infected rooms. Even in the Profession there is a difference of opinion as to the stage of small-pox at which it begins to be contagious. There are some who, perhaps arguing from analogy, are disposed to think that a communicable virus is not given off until the specific eruption appears upon the skin, and some who regard the disease as scarcely likely to be communicated even during the first day or two of the eruptive stage. We are sure that this notion is as inconsistent with facts as it is dangerous to the public health. The observations of highly competent men have satisfied us that the cutaneous eruption is no proper criterion to go by, and that small-pox may be communicated when not a single pock has appeared upon the skin. It was only a fortnight ago that a case of petechial typhus, fatal in a few days, was reported to one of the metropolitan Health Officers. Suspecting that there might have been an error in the diagnosis, he saw the Surgeon who reported it, and learned from him that the illness commenced with severe pain in the back and other initiatory symptoms of small-pox; and, moreover, that the patient, a girl, had been exposed to small-pox contagion. In this case there was no eruption up to the death, yet a sister who lived in the house and assisted in nursing her was about a fortnight after the death attacked with small-pox. That a variolous fever without eruption prevailed in epidemic seasons was an old observation of Sydenham. That people with this form of the disease, ignorant of its nature, may go about and communicate small-pox, is not an improbable way of accounting for some of those attacks in which no direct or indirect exposure to contagion can be traced. However this may be, it is obviously a prudent course to interdict personal intercourse with individuals who, during the prevalence of the epidemic, show the symptoms of the initiatory fever, whether they issue in cruptive small-pox or subside without the development of pocks.

We have already referred to two kinds of public provision made for the suppression of the reigning epidemic-the establishment of Hospitals and the encouragement of primary and secondary vaccination. We should not be far from the truth were we to say that these two preventive measures, utilised to the fullest possible extent, would almost suffice to bring the epidemie to an end. But, inasmuch as every case of small-pox is not isolated immediately on its commencement, and so, for a longer or shorter time, is a focus of infection for its neighbourhood, directly spreading the contagium through the atmosphere, or indirectly through other media to healthy persons; and inasmuch as it is Utopian to expect absolute and universal protection of the public by vaccination and revaccination to be attainable, other additional measures have to be adopted for intercepting and annihilating the materies merbi. Public provision for this purpose is made by the Sanitary Act of 1866, which, recognising the doctrine of contagion, lays upon local authorities the duty of applying it in the suppression of communicable disorders.

The term "disinfection" is applied to proceedings which

have for their object the destruction of those qualities of matters discharged from the sick which enable them to reproduce a similar disease in the healthy. In modern scientific parlance, the process of disinfection consists in the destruction of the vitality of "disease germs"; and the process may be, and ought to be, employed in respect of anything which there is reasonable ground for believing may be infected, or which may contain the active germs of the disease. It is applicable, then, to the person of the sick, and his dejections and discharges; to the air of his chamber; to his clothing and bedding, and anything used by him; to the clothing of his attendants; to the walls, ceiling, and floor of the apartment; and to everything that the apartment contains. The disinfectants which are most to be relied upon are-a prolonged heat of 230° to 280° Fahr., prolonged boiling in water, sulphurous acid vapour, carbolic acid, and chlorine. Where a patient is being treated at home, the best plan of preventing the diffusion of the contagium is to maintain a constant current of air from without into and through the chamber by means of a small fire, while an old sheet, sprinkled freely with carbolic acid or a solution of chloride of lime, is suspended outside the door. The atmosphere of the chamber, too, may be usefully slightly charged with the vapour of carbolic acid or chlorine. The only precaution necessary, is to avoid using both these different agents at the same time. On the recovery of a patient, he should not be permitted to mix with other persons until all the crusts have fallen, or until he has taken several baths containing a little carbolic acid in solution. It has been questioned whether a dead body gives off the contagium of small-pox so as to be dangerous. It is not necessary to ascertain this definitively merely to settle our practice : the simple suspicion of the affirmative being true should suffice to determine us to secure the corpse as quickly as possible in a coffin, covering it with the disinfectant that is preferred; we are in the habit of using carbolic acid or MacDougal's powder. When the death takes place in a poor and crowded house, the body should be removed to a public mortuary. The chamber being emptied, either by the removal or recovery or death of the patient, the process of disinfection should be applied to it and to its contents. And here comes a practical difficulty-namely, that the disinfection cannot be properly carried into effect while people are resident; and among the poor it is a common thing for a whole family to occupy but a single room. Hence, when that room has to be disinfected, an impediment arises from the absence of any place to which the family can be temporarily removed. If the Diseases Prevention Act were in force, as it was during the cholera season of 1866, nuisance authorities would be required to provide houses of refuge or places of temporary accommodation, but no such place is provided, so far as we have learned, in any parish of the metropolis, for the exigencies of the present epidemic. The best mode of proceeding for disinfection of an infected room we believe to be as follows:-As soon as possible after the sick person is removed, paste up with brown paper all the crevices of the windows and doors, and the whole of the opening of the fire-place, and burn a quarter or half a pound of brimstone in the room, according to its size, by covering that quantity, broken into small pieces, in an iron dish, over a bucket of water, with live coals. The room should be kept closed, and the chinks of the door pasted up, for about six hours. The contents of the room may then be manipulated with comparative safety. The textile articles capable of being boiled without injury should then be removed, and put to soak for some hours in water containing some carbolic acid in solution, and then well boiled for two or three hours. Woollen articles, which cannot be boiled, should be disinfected by heat. in an appropriate oven, which it is the duty of the public local authority to provide. Feather beds and pillows are best disinfected by emptying out the feathers into a clean sheet, and then soaking and boiling the ticks. The feathers may be disinfected by spreading them out upon sheets in a closed chamber,

and fumigating, as before, with sulphurous acid, after which they may be again put into the ticks. The room, cleared of these several articles, may then be taken in hand. The paper should be smeared with crude carbolic acid. stripped off, and burned, the ceilings and walls washed with water containing some carbolic acid, and then limcwhited, and the floor and woodwork scrubbed with soap and water and carbolic acid. The various articles of furniture should be similarly cleansed. In poor houses, the only way of effectually dealing with beds and clothing is often absolutely to consume them by fire. After a room has thus been disinfected, it is a good practice, where it can be carried out, to leave it unoccupied, with the windows wide open, for a week or a fortnight. By the 23rd section of the Sanitary Act, 1866, the nuisance authority in every district in the kingdom is empowered to "provide a proper place with all necessary apparatus and attendance for the disinfecting of woollen articles, clothing, or bedding which may have become infected." It might be supposed that in the metropolis, at any rate, where infectious maladies of one kind or another are scarcely ever absent, local anthorities would have seen it their interest as well as their duty to have availed themselves of the power thus given them. At the time when relapsing fever was prevalent, a year ago, the Medical Department of the Privy Council urged the importance of this step upon the metropolitan vestries, and in their last memorandum, to which we have before alluded, attention is again called to this subject. The fact is, that ont of the forty-five districts into which the metropolis is distributed, there were but five in which, a fortnight ago, any provision of this sort for disinfection by heat or boiling was made. These districts were Marylebone, St. Giles's and St. George's (Bloomsbury), St. George's (Hanover-square), Chelsea, and St. Luke's. The apparatus provided in Marylebone and St. George's, Hanoversquare, is Nelson's patent. This apparatus consists of a box in which the articles to be disinfected are exposed to a dry heat of 200' by means of gas. Dr. Whitmore states that the heat can be raised to 210° or 220°. In St. Luke's an oven is provided in which fumigation with sulphurous acid can also be obtained. In Chelsea the apparatus consists of a brick oven, by no means well contrived. St. Giles's parish has recently provided itself with Fraser's patent apparatus, which, so far as we have seen, is the best yet contrived for the use of public authorities; it has already been fully described in this journal. In this a heat of 230° or 250° can be readily raised and maintained, while fumigation with sulphurous acid can be conjoined. The dread of the epidemic, or the repeated admonition of Mr. Simon, or both together, have had the effect of inducing seven other parishes to carry out the directions of the Sanitary Act. We learn that recently the authorities of the City of London. Poplar, Hackney, Shoreditch, Islington, Bow, and Hampstead have determined upon this course, four out of the number having settled npon Fraser's apparatus. Sixteen other vestries and district boards are, we hear, thinking about doing something in this way. The remainder are yet unmoved-and this remainder, we are sorry to say, includes some of the poorest districts, where a place and apparatus for disinfection are most urgently needed. On the whole, it would appear that Fraser's apparatus is at present regarded with most favour. Dr. Letheby has expressed himself dissatisfied as regards the application of mere dry heat. The plan which he proposes to adopt in the City is-first, to fumigate with sulphnrous acid for an hour or two; then to expose the articles to superheated highpressure steam of about 250°; and lastly, to a dry heat of 250° or 280° for two or three hours. If any application of heat will destroy disease germs surely this will. We have no doubt that this process, claborate though it be, is justified by the demands of prudence; and it is quite possible that in course of time experience will show the necessity of resorting to the use of moist heat, even by those authorities who have determined for the present occasion to erect ovens upon Fraser's principle.

TORTURE IN INDIA.(a)

Amono a people cruel as well as weak, modes of torture might be expected to be common, yet we were hardly prepared for the multitude of devices whereby suffering may be produced revealed to us by Dr. Chevers. In the olden time torture was generally used by native rulers, as by the Normans on Isaac of York, to induce their subjects to yield up their possessions, when they were suspected of having any, and in a great many instances the means adopted-viz., fire-was the same. Nor did the practice cease with native rule; it was too ingrained in the native constitution to be readily swept away, and even the police authorities introduced by the British were discovered to be constantly in the practice of using some mode of torture to induce their prisoners to confess, and thus, while obtaining easy proof of their culpability, increase their own reputation for zeal and cleverness. But, in truth, the use of torture was universal-practised even by parents on their children. Thus, it was not uncommon for a native, instead of beating his son, to put red pepper into his eyes as a punishment for offences committed.

But, as we said above, heat, in some form or other, seems to be one of the most frequently-used means of inflicting pain, and this may be done, either by applying to the wretch the heated bowl of a pipe, a red-hot pieco of charcoal, a lighted torch, a red-hot iron, or boiling oil or water. In the case of women, the pudenda would seem to be the parts most frequently injured in this way. Some of the instances of torture recorded here seem absolutely diabolical. Thus, in one case, the fingers and toes of certain prisoners were bound together, and splinters of bamboo driven between each, after which boiling oil was poured over the injured parts. Not satisfied with this, they next proceeded to squeeze the testes of the unfortunate wretches between pincers made of wood, until they were destroyed. A string was next attached to the penis, and fastened tightly to a tree at a distance, after which one of the tormentors employed himself in striking the tant string with a stick. Need it be added that the unfortunate man died? Ordeal by fire was also frequently employed among the Brahmins. Cold-to which the natives would be even more susceptible-was also used as a means of torture. Thus, in cold weather, water might be thrown on the body as a punishment, according to the old Hindu law. Another mode of torture popular, apparently, with the old police, was to tie the suspected culprit's hands behind his back, and then to attach them to a beam or branch of a tree above his head, so as to be able to swing him backwards and forwards. In this position the victim was frequently beaten with sticks and stinging plants. This would be pleasantly varied by suspending by the feet, and beating the upturned soles; suspending by the hair, by the moustache, the ears, etc. Red pepper, a common product of the country, would seem to be frequently employed as a means of causing severe pain; sometimes introduced into the nostrils or eyes; sometimes burnt beneath the nose; put in a bag and cast over the head; rubbed as chilies into the breasts of females, or introduced into the vagina or urethra. Quicklime is also used for introduction into the eyes, and its acridity increased by the use of the marking-nut, a plant possessing a very acrid juice. Another mode of torture here mentioned as at one time emplayed by Scindiah was placing the victim on an elastic couch. beneath which were placed, with their points directed upwards. the long and sharp thorns of the acacia, and thus, whether at motion or at rest, his body was pierced and lacerated. This failing to induce him to disclose his treasure, when he was nearly exhausted they removed him from his bed of pain and brought before him his infant child, whom they introduced into a bag along with a wild cat, and then stood by ready to

(a) "A Manual of Medical Jurisprudence for India, including the Outline of a History of Crime against the Person in India" By Norman Chevers, M. J., Surpeon-Major M. M. Bengal Army; Principal other Calcutt Medical College; Professor of Medicine, and Senior Physician, in the College Hospital, etc. Calcuttie; Thacker, Spink, and Co. Pp. 661.

Feb. 25, 1871. 223

irritor, the animal till it should destroy the shild. This was too much by his, and he made he needful disclosure. The introduction of a stick or other foreign body into the vagina or rectum would seem to have been a common mode of toture. Best he sometimes resulted from the inflammation thus excited. Even children seem to practise the latter mode of crucity on each other. In like manner a wire or a stick is sometimes introduced into the merbra.

It has been reported of some of our keepers of the insane that they travel up and down the chest of a refractory patient on their hands and knees until he is effectually quietedsometimes by breaking his ribs. The plan is not original, as it is practised in India, only, instead of using the knees, the natives commonly use a pair of bamboos-one in front, the other behind-and compress the chest or limbs between them. Sometimes a heavy weight, as a hand-mill, is placed on the chest or stomach; and sometimes the fingers, instead of the chest, are squeezed between bamboos. Instead of squeezing with bamboos, torture is sometimes inflicted by tying a rope tightly round one or more of the limbs; this is sometimes carried so far that gangrene sets in. Of old, a modification of this plan was used in Western India. The prisoner was stripped, and an animal killed, after which its newly flaved hide was tightly fastened on him, when he was abandoned to its miserable compression as it hardened and contracted. Sometimes plans for maintaining the victim in an unpleasant and painful posture would be adopted; of these the simplest are the stocks, which used to be employed in our own land. A more horrible mode of inflicting torture was formerly common-viz., that of placing a mole, cricket, or a spider on the navel, and covering it over with an earthen pot, leaving the animal to seek its escape by tearing at the entrails. Another favourite practice was exposing the victim to the attack of a colony of red ants.

It would hardly be possible to exhaust the list of native atroctites, some too disqueting to mention, but many leave marks, and marks are spt to be followed by punishment; hence ingenuity has been exercised to devise some mode of indicting pain which can leave no trace. Of these, starvation, expoure to the sun, preventing from aleeping, pinching, etc., are employed, but still more effectual are those nancless acts whereby self-respect is wounded and caste lost; but of these we will not further epeak.

THE WEEK.

TOPICS OF THE DAY.

THE scheme for the formation of a Conjoint Board for the examination of Practitioners in Medicine, Surgery, and Midwifery, prepared by the Committee appointed by the three English Medical Corporations, was discussed at considerable length by the Fellows of the Royal College of Physicians at the Comitia on Monday last, and, we are glad to learn, has received the full assent of the College. It is true, it is rumoured that some of the senior Fellows of the College have qualified their approval by expressing an opinion that the scheme is only applicable to an examination for the general Practitioner. But considering that it is framed for the admission of candidates to the Licence of the Royal College of Physicians itself, as well as to the Membership of the Royal College of Surgeons and the Licence of the Society of Apothecaries, and that it provides for the nomination of a full proportion of examiners by the Royal College of Physicians as well as by the other Corporations, it requires no prophet to foretell that it must constitute a most important step to the erection of that one portal to Medical practice for which the Profession has long been striving. Of course it can never be wished or expected that an examination provided by a Conjoint Board should admit candidates to the higher honours which are in the gift of certain of the Medical authorities. What is wanted is that it should be a good, practical, and, as far as it goes,

scientific examination in all the branches of Medicine; that it should be thorough within certain limits; and that it should at least warrant the public in reposing confidence in the general practical knowledge of the possessors of the diplomas which it will confer. We may state, on good authority, that the following is the exact distribution of nominations to examinerables. It will be seen that the information we have published as probably true, on previous occasions, is fully confirmed :- It is proposed that there shall be ten examiners in Medicine, five of whom will be nominated by the Royal College of Physicians and five by the Society of Apothecaries. There will be ten examiners in Surgery, nominated by the Royal College of Surgeons. There will be six examiners in Midwifery, two of whom will be nominated by each of the three Corporations. In Anatomy and Physiology there will be eight examiners; five to be nominated by the Royal College of Surgeons and three by the Royal College of Physicians. In Forensic Medicine, there will be four examiners; two to be nominated by the Royal College of Physicians and two by the Society of Apothecaries. And in Chemistry, Materia Medica, Pharmacy, and Medical Botany, there are to be eight examiners; four to be nominated by the Royal College of Physicians and four by the Society of Apothecaries. The fee, as we previously announced, is to be thirty guiness, and will, on the candidate undertaking to obey the by-laws of the respective Corporations, be the sole money payment for all or any of the three diplomas. The funds accruing are to be divided into two parts-one-half will be set aside for the payment of the examiners and of the expenses of the examinations, and the other half will be divided between the three Corporations, in proportion to their previous incomes from examinations, the calculation being based upon the income of the last five years. This part of the scheme, however, is to be subject to revision at the end of three years. On the whele, we are decidedly of opinion that the scheme is a just and equitable one. We have no fear that a Board thus nominated will prove itself unequal to the occasion. We believe that the examinations of the Medical Practitioners of England and Wales will be in every respect worthy of the country and of the Profession. The presence of different elements in the Conjoint Board will prove a healthy stimulus to each. We have no doubt that the Board will both obtain and keep public confidence. At no very distant time we shall hope to see it made still more comprehensive by the co-operation of the Universities. But for this we may wait. Reforms, to be stable, must not be forced. The entire consolidation of the numerous, and sometimes antagonistic, elements into which our Profession has been unhappily broken up, is a work which requires time and patience.

The reply given by Mr. Forster to Dr. Lush, on Monday evening, completely dissipates any lingering expectation that the Government will reintroduce their Medical Acts Amendment Bill in the present session. We do not know whether any private member will show sufficient confidence in his own influence within the House, and sufficient reliance upon support from without, to venture upon the introduction of a Bill. But it is easy to predict that no measure can possibly be pushed through both Houses of Parliament without the direct and active support of the Government, and it can hardly be expected that Mr. Forster and his colleagues will give their assistance to a private member to accomplish a feat which they have only just failed in performing. For ourselves, we think that the present state of affairs suggests most powerfully the necessity of the Medical Profession dispensing as far possible with the aid of the Legislature. The great changes required by the Profession may most of them be accomplished by voluntary effort. An important step has already been made in the arrangement of the scheme for the Conjoint Board; and if the General Medical Council will use its influence to effect a similar movement in Scotland and Ireland, we think that any necessity for immediate Medical legislation will be entirely superseded.

Lord Derby's speech at the dinner of the Hospital for Sick Children contained a great deal of good physiology and sound observation put in a popular way. The same cliesa are commonly current amongst our Profession, but that does not make us the less pleased to see them set in a clear light by so distinguished a statesman as Lord Derby. From the high mortality of towns over country, he drew an argument for special Medical provision for the children in great towns. We are very glad to see that he boldly asserted emigration to be the oult true remedy for over-population. He said—

"Now I carry the argument a step further, and I contend that children are exactly those for whom Modical help is most wanted in London; because it is among children that the high death-rate exists which makes the difference in mortality between town and country. Adults live and thrive very little the worse for the snoke; but the smoke and all that goes with it kills off the babies and those under five years. There is no more delicate test of pure air than whether a child will thrive in it. Now, in London the sir is not pure: you may test it in the parts. With all the attention that can be given, such that the state of this propose. It is not find each of the state of this part of the state of this part of the state of this gain the outside world, the attractions of a new country will be stronger, and engingtain will increase."

After the severe sentence which Mr. Bruce permitted to be carried out on the woman Waters, we fully expected that that gentleman would have brought into Parliament a Bill on the subject of baby-farming. This, however, is not to be the case, and he only promises to give Mr. Charley's measure his full attention. If women are to be held to be murderesses, and hanged for carrying out the trade of baby-farming when the children intrusted to their care die, although it is well known that a large proportion of infants artificially fed die under the best regime ; and when it is remembered that in the manufacturing districts large numbers of the infants of women working in the factories are put out to nurse-and consequently out of the world-without scruple, we think it is high time that some distinct enactments providing inspection and supervision should be made. We are glad Mr. Charley has brought his Bill into the House; but we think that this in no degree relieves the Government from its responsibility.

The Poor-law Commissioners are taking active measures to arrest the spread of small-pox in Ireland. According to a circular issued by the Commissioners, the cases which have occurred have been traced from sea-ports on the eastern coast, into which the discase has been imported from Liverpool, Glasgow, and South Wales.

Mr. Mitchell Henry, late of the Middlesex Hospital, has been returned without opposition as Member of Parliament for Galway.

QUALIFIED AND NON-QUALIFIED PRACTITIONERS.

Is another column we print a letter from Professor Bischoff, in which that eminent physiologist aaks our opinion on the value or otherwise of the law requiring Practitioners of Medicine to undergo an education and examination. The question is sometimes raised here, by a set of political philosophers, who contend that all systems of government err on the side of excess; that perfect freedom should be the rule, and State regulations the exception, in all mundame affairs, and that the

maxim cevest emptor is as applicable to the man who sends for a Surgeon as to him who buys a horse.

But, looking at Professor Bischoff's question in the light of reason and experience, we do not hesitate to declare our belief -lst. That anyone who desires to practise Medicine worthily, to study its principles, and to advance the science, would never object to pass an examination; and that the persons who desire to practise without examination are probably mere adventurers and charlatans, whose object is mere money. 2nd. That the practice of persons not examined would be full of blunders and charlatanism. 3rd. There are large numbers of persons whose judgment is nil; and who would run after the unlicensed Practitioners, because they would assume a licence to lie and brag freely! 4th. In England, where it is the custom of large numbers of the people to apply to druggists, we do not doubt but that many diseases pass unnoticed till too late, or are wrongly or superficially treated. 5th. Assuredly most of the cases of abortion in England are perpetrated by irregular and unlicensed Practitioners. 6th. We believe that legislation and fear of punishment can do much towards suppressing illegal practice.

We must observe that, although in England every man may practise Medicine and Surgery, yet he must not assume any of the titles and designations used by qualified Practitioners, such as Dootor, Surgeron, Physician, or the like; neither can he take any public Medical appointment, nor sue for fees or charges. Moreover, it is the ancient traditional custom with the poorer classes not to pay fees for advice, but to go to a druggist to purchase something which the vendor believes will do him good. The English apothecaries are men of first-rate acquirements, fully qualified and licensed to practise Physic, and their education and examinations are equal to those of most M.D.'s and Physicians.

CASE UNDER THE POOR-LAWS.

MR. EBSWORTH, Surgeon and accoucheur, of Trinity-street, Southwark, has brought an action, in the Southwark County Court, against the guardians of St. Saviour's, to recover £15 18s. 6d. for vaccination fees. It appears that Mr. Ebsworth was, in July, 1861, appointed Vaccination Officer by the Board of Guardians of St. Mary's, Newington, and continued to act as public vaccinator for the parish up to July, 1870. The amalgamation of the parish of Newington with that of St. Saviour's, however, took place in October, 1869; but this made no alteration in the performance of his duties, which were continued to the above date, as no notice of any change of arrangement had been given him. The Vaccination Act required the board of guardians to give notice of any such change, but he received nothing of the kind until July 17, 1870, when a vaccination placard was issued, and Mr. Ebsworth's name removed from the list of vaccinators. The defence of the guardians, depending as it did upon a technical point—that no old contract had been made with him previous to the amalgamation of the parishes-was a shabby one. A reason for all this, however, might be found in the fact that Mr. Ebeworth had been receiving only £75 a year, while other parochial Medical men were in receipt of £250 for vaccination and vaccination fees. Mr. Ebsworth drew attention to the fact, and obtained an increase of pay, and, in the very first fortnight after it was granted, the guardians retaliated upon him.

Mr. Jones, assistant clerk to the Union, said that anxious as the St. Saviour's guardians were to carry out the arrangements with respect to the new appointment of Medical officer, made with the guardians of St. Mary's, Newington, the Poor-law Board would not sanction the course they proposed to take. In point of fact acting under the powers of the Act 30 and 31 Vic., cap. 81, sec. 4, the Poor-law Board refused to sanction the establishment of fire vanciantion districts, as heretofore, and would only agree to have two districts; and, according to the Act of Parliament, the Poor-law Board and nower to

refuse the ratificaton of the appointment of a Medical officer when a distinct ontract with him had not previously existed. In this case, the guardians did the best they could to have Mr. Ebsworth appointed, and sent his name up to the Poorlaw Board, but the latter refused to sanction the appointment.

On Mr. Ebsworth's behalf, it was contended that, under the Act, a new contract arcse with him, and he also relied upon that section of the Acs which said-" The Medical officer shall be the public vaccisator." His Honour said that, having heard the facts of the case, he considered it one of sufficient importance to justily him in reserving his judgment, which he should pronounce at an early day.

W. W. WICTIS!

WE have on more than one occasion noticed the hardship and injustice of the position of Medical Officers of the Army as regards the period of leave granted to them for the recovery of their health. While officers of the military branch can, without loss of pay or time counting for service, obtain twelve or eighteen months', or even two years' leave on Medical certificate, those of the "civil" departments-in which Medical officers are included—on the expiration of six months must return to duty, most probably at the same foreign station at which their health had broken down, or go on half-pay, and must thus incur, not only temporary pecuniary loss, but permanent departmental retrogression and postponement of ultimate retirement. We are informed that the Indian Government, by a recent enactment, has very seriously increased this hardship in the case of Medical officers of the British service who are compelled to return to England on Medical certificate. It has been directed that the Medical boards in India must pronounce an opinion as to whether it is probable that the Medical officers who appear before them will be fit to return to India at the expiration of six months. Those Medical officers whose cases are so serious as to render it unadvisable for them to return to India at the end of such a limited period, are struck off the strength of the Indian establishment, and successors from England must immediately take their places. The result of this decision is, as we are informed, that they lose the six months' Indian pay granted to other officers leaving India on Medical certificate, as the Indian Government very astutely declines to pay at the Indian rates officers who are not likely again to serve in India for some time. The consequence is, that Medical officers whose health has so completely broken down in India that not only can they not return to that country, but are unfit for service at home or in a temperate climate, at the expiration of six months, in addition to losing the six months' Indian pay, are placed on half-pay at home. The consideration shown to them is thus. in fact, inversely proportional to the extent to which their health has suffered. We have every reason to believe that in this matter we have been correctly informed, and we consider the subject one which well merits the attention of some of the members of our Profession in the present House of Commons.

THE METROPOLITAN ASYLUMB BOARD.

THE President of the Poor-law Board, in reply to Mr. Jebb's letter to him in reference to the mis-statements with regard to the proceedings of the Managers of the Metropolitan Asylum District, says-that the three sites secured for erecting asylums were secured with the consent of the Poor-law Board, and that they could not have been obtained on more reasonable terms or in better positions; that the inquiries made by the Poorlaw Board fully bear out the statements of the managers, that it is wholly untrue that patients have arrived at the Hospitals in ordinary cabs, or in other conveyances plying for hire; that of 800 patients admitted, all except one, who was not a pauper, were brought in carriages exclusively appropriated to the conveyance of persons suffering from contagious diseases; that,

the Poor-law Board will investigate most rigidly any cases of alleged improper conveyance of sick paupers, but the only complaint of this nature hitherto submitted to them was proved to be groundless; that he gladly calls to mind the public-spirited determination at which the visiting committees of the Asylums have arrived, to undertake the personal and symematic inspection of the infectious wards, notwithstanding the personal risks they may incur.

WHAT CONSTITUTES AN EPIDEMIC OF SMALL-POX? Ir is quite clear that small-pox has spread in an unusual degree over the whole of Europe. We hear of it at Malta, in France, Holland, and England. There are one or two conditions necessary for this epidemic; either an unusual virulence of the small-pox poison, or some change in the human body rendering it unusually liable. We know that such changes do occur. For instance, the freshly-vaccinated child who cannot take small-pox, undergoes some change which makes it again liable at 20 years of age. Such a change seems now to have come over the whole human family. The evidence of Mr. Ellis, in a letter to the Times, that adults never were known to take vaccination as they now do, is confirmed by that of Mr. Blackman, the eminent public vaccinator, and of all other Medical men, public and private. But if people can take vaccination, they might take small-pox; for they who are proof against one, are proof against the other. It was believed by Dr. George Gregory that a great improvement in health and strength renewed the liability to small-pox after vaccination; but it is more easy to speculate than to prove anything as to the causes of this and other epidemics.

THE STAMPING-OUT OF SMALL-POX.

THE Dublin Daily Express of Tuesday last published a long letter from Dr. Evory Kennedy, containing practical suggestions which derive great value from his eminent rank in the Medical Profession and the careful attention which he has bestowed upon the subject. He says the means of stamping out small-pox may be described in three words-isolation, disinfection, and vaccination. He strongly urges the importance of vaccination as a check and safeguard against the disease, and adds that in several capitals of Europe, but more especially in Naples, Paris, and Rotterdam, much zeal has lately been shown to introduce modifications in vaccination, with a view to obtain a more protective virus; but the result of these variations from Jenner's simple plan is not such as to draw us away from our allegiance to the system adopted by its great founder.

VACCINATION BY PRIVATE PRACTITIONERS.

AT the last meeting of the Association of Medical Officers of Health, some remarks fell from Mr. J. N. Radcliffe, one of the Privy Council Inspectors, which well deserve consideration. He condemned a very large body of vaccinators as performing their work in a shamefully slovenly and worse than worthless manner. Their carelessness was shown by the fact of their never caring to keep up a succession of vaccinated children from week to week, so that they might always have a stock of fresh lymph of assured purity. They neglected vaccination for long intervals, then sent off to Whitehall for a large stock. We are convinced that nothing but arm-to-arm vaccination ought to be encouraged; and we believe that a very little friendly feeling amongst neighbouring Practitioners would prompt them to arrange with each other to keep going a succession of vaccinated arms, amongst their private patients, from week to week. Some men complain of the poor pay; but better work always brings better pay, and, if patients caunot pay, they should be made over to the public vaccinator.

ME PAGET.

WE are glad to shear that Mr. Paget is fast recovering from a somewhat serious indisposition. He will speedily, we trust, be able to resume the full measure of his labours.

THE MANCHESTER MEDICO-STRICAL ASSOCIATION

Is the report just issued, the Committee state that no fewer than fourteen meetings of that body had been held. These had been occupied by considering the form of the amended Bill to be brought before Parliament. The chief points arrived at wers—1. One portal of entrance into the Profession. 2. More direct representation of the general body of Prackitationers in the General Connell—feeling assured that, until this body was differently constituted, no real good could be done in the way of reform; and, 3, the appointment of a public pressecutor. The attention of the Committee was also occupied with the question of quack advertisements. The Saturday Berine had stated that the Monchater Courier and the Examiner and Times had inserted quack advertisements of an immoral character.

"A sub-committee was appointed to wait upon the respective citiors of these papers, and to point out the impropriety of inserting such advertaments. An interview was subsequently had with each editor. The editor of the Courier promised not to insert advertaments from any new advertiser, and the editor of the Examiner and Times said that great care was taken to withhold all improper words and expressions; whilst both genulicane admitted that it was desirable to control the class of advertisements referred to as rigidly as possible."

A sub-committee had been appointed to consider "the mode of admission of patients to the Medical charities." The number of members had increased during the past year from sixty to seventy-five.

THE AMERICAN LAW AS TO THE LEGAL CAPACITY OF HABITUAL DRUNKARDS.

It is not definitely settled, neither, perhaps, is it possible to settle, just what degree of drunkenness will avoid a contract or will. The questions in every case must always be: Had the testator at the time of making the will a disposing mind? and did he act freely? A person deprived of reason by intoxication cannot make a valid contract or will. [So decided in Prentice v. Ackorn (2 Paige, 30); Duffield v. Robinson (2 Harrington, 375.)] It is said in Peck v. Casey (27 New York Rep., 9) that neither habitual intoxication, nor the actual stimulus of intoxicating liquors, at the time of executing a will, incapacitates a testator, unless the excitement produced thereby be such as to disorder his faculties and powers-his judgment; but this case is not inconsistent with the principles before stated, for the decision was based upon the ground that the mind of the testator had not become impaired from habits of intemperance. and was not, at the time of the execution of the will, so far under the influence of liquor as to affect the character of the instrument. By the revised statutes of New York, " all persons, except idiots, persons of unsound mind, and infants, may devise their real estate by their last will and testament duty executed" (2 Rev. St., 56). "Every male person of the age of 18 years or upwards, and every female of the age of 16 years or upwards, of sound mind and memory, and no others, may give and bequeath his or her personal estate by will in writing" (2 Ibid., 60). The question as to just what persons are prohibited by the term "persons of unsound mind," has led to much discussion and litigation. It is something separate and distinct from idiocy, which state of want of understanding, and not a perversion of the intellect, is separately provided for ; and it is not synonymous with non compos mentis, which term comprehends every description of mental infirmity. The true rule is, perhaps, that which was laid down by Mr. Justice Davies in Delafield v. Parish (25 New York Rep., 9), that the testator must have sufficient capacity to comprehend the conditions of his property, and his relations to the persons who were or should be the objects of his bounty, and the scope and provisions of his will, and these are the proper questions to be submitted to a jury in such cases .- McClintock v. Curd (32 Mo., 411); Beaubien r. Cuotti (12 Mich., 459); Converse r. Converse

(21 Vt., 168); Daniel e. Daniel (39 Pennsy-vania State Rep., 191). The testator must not only have a disposing capacity, but the instrument must be his own free act, and a jury, in deciding questions of this nature, should ask themselves whether, from all the circumstances of the case, they regarded it as the will of the testator or the act of some other person or persons (1 Redf. on Wills, 131). Every species of influence which goes so far as to overcome free agency, must be regarded as undue, and all fraudulent acts are embraced in the term. A person has a right, in a fair and legitimate manner, to urge another to make a will in his favour, and an influence sufficient to avoid a will must amount to coercion or virtual control over the testator.-Gardner v. Gardner (22 Wend, 526); Low v. Williamson (1 Green's Ch., 82); Tyler v. Gardner (25 N. Y., 559); Wier v. Fitzgerald (2 Bradf., 42). The result of the late decisions of the Court of Appeals on the same subjectviz., Van Guyaling v. Van Kuren (35 New York Rep., 70), Christie v. Clark (45 Barb., 529), Eau v. Snyder (46 Id., 230), and others-is, that a person whose senses and memory were obscured by a long course of intemperance, or who was suffering from excessive indulgence at the time, could not make a valid will or contract.

HEALTH OF PARIS.

Pans continues to be extremely unhealthy, and the Physicians are unanimous in urging people to keep away and in recommending persons here not to allow their families to return. The atmosphere is charged with typhus miasms. The deathrate continues to increase.

FROM AEROAD.—DEATH FROM CHLOROPORM.—PROFESSOR BILLROTE'S LETTERS FROM THE SEAT OF WAR.

Dr. Blodio, Professor of Ophthalmology at the Eve Infirmary at Gratz, relates an interesting case (Wien. Med. Woch., December 31) of death under chloroform. The subject was a lad, aged 11, who, two or three weeks before, had wounded his eye with a knife, giving rise to cataract and dislocation of the lens, together with adhesion of the inflamed iris. It was resolved to remove the lens, and perform iridectomy, and, with this intention, chloroform (the good quality of which had been tested in numerous other cases) was administered, about two drachms being employed. The operation required more than usual care and time, owing to the constant movement of the head on the part of the patient. While the dressing was being applied, the lad was observed to make several rapid respirations, and then to cease breathing. The pulse could not be felt, and the pupil of the other eye was unusually dilated. Artificial respiration and various other means were resorted to, with the effect, at first, of restoring some respiratory movements at longer or shorter intervals, the pulse also being felt again weakly beating, and the face recovering some of its colour. A collapse then suddenly set in, and, after three-quarters of an hour further effort, all hope was abandoned. A post-mortem, carefully performed, failed to exhibit any peculiarity. Professor Blodig thinks that the following points are noteworthy in the case :-- 1. The small quantity of the chloroform used. 2. The incompleteness of the narcosis produced, as evidenced by the frequent movements of the head during the operation. 3. The continuance of respiration after the completion of the operation, and certainly six or eight minutes after the cessation of the inhalation, 4. The return of deep inspirations and the colour of the face and lips during the attempts at reanimation. 5. The absence of any explanatory appearance at the autopsy. Professor Billroth, now entering upon the Surgical portion

Professor Biliroth, now entering upon the Surgical portion of his letters, first observes that almost every Surgeon, without acting in concert on the matter, seemed bent upon ascertaining the limits to which conservative Surgery of the limbs might be carried. When he left the seat of war, at the end of September, his impression was, that the experiments in the extreme conservative direction had been carried to far, especially as

regards gunshot wounds of the knee; and that, in the event of the continuance of this war, or the breaking out of a new one, amputation would be performed more frequently, and at an earlier period. He could not suppress the feeling that our indications for amputation are far too uncertain, and in some cases rest on no firm basis. With the exception of this and a few sub-ordinate points, no branch of Burgery is so guided by well-assertained and precise rules as the treatment of gunshot wounds.

As far as his own observations extend, Professor Billroth believes that, after a buttle, in only a third of the cases are the wounds of a severe character, and that of these a third or a fourth die. It is too early to draw any statistical conclusions, which, indeed, cannot be safely drawn from the experience of particular Hospitals or towns. Hereafter the gross mortality will have to be compared with that resulting from former wars, and we shall be able to judge how far science and humanity have or have not made progress. The mode of war-fare, as-e.g., whether a preponderating number of wounds have been caused by shells or other projectiles, the conditions of climate, time of year, and various other points, will have then to be taken into account. In the meantime, he confines his attention to the subject of gunshot wounds, having had no opportunity of treating sword or bayonet wounds in his own Hospitals, and having seen but few examples in those of his colleagues. He furnishes figures of the different projectiles employed, and observes that, although the aperture which the needle-gun makes must be larger than that from the chassepôt, the difference to the eye is insignificant, except in subcutaneous wounds (Haarseilschussen) of the soft parts. Wounds with slit-like exits are sometimes remarkable for the amount of suppuration which takes place in the subcutaneous cellular tissue, requiring for its discharge dilatation of the aperture-this, indeed, sometimes healing up before the pus is discharged. In some of the Haarseilschussen, the second portion of the track of the wound heals without any discharge at all, while the orifice of entrance is in a state of suppuration; and this is what happens in gunshot wounds supposed to heal by first intention, examples of which Professor Billroth has never met with. The action of projectiles on the bones is that which is most peculiar in military Surgery. The "colossal" splintering of the diaphyses of the long bones, and the direct manner in which they are struck and broken, are quite remarkable; in civil practice there is nothing analogous to it. When, in cases of running over, falling from heights, accidents from machinery, etc., fractures are produced with numerous and extensive splinters, the soft parts are also so much crushed that primary amputation has to be at once executed. But in gunshot wounds the implication of the soft parts is comparatively slight, there being seldom any considerable crushing or laceration, the bones only being crushed and splintered to an unknown extent in various directions. Little difference between the effects of the French and German projectiles on the bones and vessels was observable. In both simple fractures and contusions without wounds, and in both enormous splintering were met with; and if, as some have stated, the injuries to the bones have been found less severe among the Germans, this must be attributed less to the smaller volume of the French projectile than to the fact of the French very often firing from too great a distance, whereas the Germans advanced much nearer, in order to take good aim. When bones are struck by projectiles, these seldom remain unchanged in form, becoming flattened or split into fragments of the most irregular shape. On examining the portions of torn lead which are extracted from the wounds, we might easily come to the conclusion that the ball, when striking against the bone, must have been in a soft or halfmolten state, since it seems incredible that the bone should offer such a resistance as to remain unbroken while the ball itself may have become flattened. Yet none of the projectiles

extracted have oxhibited any signs whatever of a melting of the metal. Neither at Weissenburg or at any of the Lazaretha which he inspected did Professor Billroth see any wounds which were to be certainly attributed to the mitrailleuse projectiles. There would seem to be nothing special about them beyond thrie being probably somewhat larger than those from the needle-gun. However, neither Professor Billroth nor his colleagues had occasion to extract any of the mitrailleuse projectiles, even after battles wherein this weapon had been much employed. Nor did he meet with many wounds from shells at Weissenburg. The injuries done by them were very considerable, much resembiling those observed in accidents from machinery. It was for these fearful injuries that primary amputation was chiefly reserted to.

The belief that balls are often healed over has, as its consequence, discountenancing attempts at searching for them soon after the receipt of the wounds, as an unnecessary loss of time; and the advice has even been given to take no trouble in looking for them in blind wound-tracks, since metallic bodies do not impede healing by the irritation they cause. Such advice must not be too closely followed, for if the Surgeon surmounts his desire to extract as many balls as possible, he will still find the soldier expressing the most anxious desire to have the ball removed, which he believes to be the only cause of his suffering and impediment to his recovery. Although for the purpose of such extraction great numbers cannot be put under chloroform, there is no operation of which he can so well judge of the aim, and to the performance of which he so readily consents. His joy on the removal of the ball is extreme, in the belief that the obstacle to his rapid recovery has now been removed. Quite independently of this psychical effect of the extraction, which, however, should not be underrated, and which should be allowed to the Doctor, who seldom has an opportunity of performing so effectual an operation, the presence of the ball is by no means so insignificant in its effects upon the healing of the wound as has been represented. At all events, the projectiles now employed induce very considerable suppuration. Upon this point Professor Billroth has already expressed his opinion, in a lecture delivered at Vienna, and reproduced in our pages (December 24, 1870, p. 736). Certainly, in all blind wound-tracks of extremities, and in non-penetrating wounds of the trunk and head, the finger should always be introduced on the first examination or dressing; and when the entrance caused by the chassepôt is too small, we must enlarge it by a slight incision, so as to admit the finger together with an instrument passed by its side. Nor should we neglect the old rule of endeavouring to ascertain the position of the soldier when struck, this often furnishing us with a good indication of the probable situation of the projectile. Besides the fear of extensive suppuration ensuing if the projectiles are allowed to remain unremoved, we must also bear in mind that, under the present system of distributing the wounded, we know not how many days and nights the soldier may have to travel, the projectile still in the wound, before an attempt at its removal can again be made. If it compress a nerve, the pain which is induced by the transport becomes excessive. If the ball lies imbedded in the bone or amongst splinters, or lies in contact with the joint, the necessary time and assistance for the extraction may not be obtainable near the battlefield. A considerable number of balls that were not at first discoverable, and were supposed to have passed through or glanced off, are subsequently discovered within the cavities of abscesses, the sharp edges of the torn projectile often being the mochanical cause of keeping up the inflammation and suppuration. Moreover, when the projectile is much broken, we know that it must have struck a bone, greatly contusing or fracturing it. The ensuing traumatic ostitis and periostitis has a special disposition for inducing suppuration in the surrounding cellular tissue, especially if the injury be complicated with a suppurating wound. In this way, we see why a projectile is so often found within collections of matter. But even when the projectile is unchanged in form, we must not conclude that it has not struck a bone. The scapula, ribs, pelvis, or spongy portions of the long bones may be perforated by projectiles and greatly crushed without any change in the form of these being produced. Although there are preparations exhibiting projectiles partially encapsulated in bones by means of osseous deposits, yet these must be regarded as mere curiosities. As a general rule in such cases, painful ostitis and periostitis followed by formation of abscess is the result.

In reference to the detection of deep-seated projectiles in wounds, Professor Billroth observes that Nelaton's sound has certainly been of use in some doubtful cases, but that its fame is much greater than its practical utility. As a general rule, projectiles that cannot be reached by the finger can very rarely be extracted, for in the employment of long forceps the sense of touch is very imperfect, and the body can only be firmly embraced when it is not too mobile. He had expected great things from the American bullet-forceps; but, although his pair was by no means a weak one-and he had been able to raise a stool without bending its branches, yet it was found much too weak for the extraction of deep-seated balls, bending when forcibly closed on the body.

(To be continued.)

PARLIAMENTARY. -- BABY-FARMING -- SMALL-FOX -- ADULTERATION OF FOOD AND DEUGS-VACCINATION-MEDICAL ACTS AMEND-

In the House of Commons, on Thursday, February 16, Mr. Bruce, in answer to Mr. Charley, said that he was unable Mr. Druce, in answer to Mr. Charley, saud that he was unanise to undertake the introduction of a measure on the subject of baby-farming at present. The hon. member, however, he understood had, with the assistance of persons who took an interest in the subject, prepared a Bill, and if he would in-troduce it, it should receive the careful consideration of the Government.

Mr. Holms asked the President of the Poor-law Board if he would state the number of cases of small-pox reported among the pauper population of the metropolis, and the extent of the accommodation provided for them, or in immediate preparation.

Mr. Goschen said the last returns showed that the total number of these small-pox cases under treatment was 1228. The accommodation for them consisted of 520 beds in the The accommodation for them consisted of 220 beas in the metropolitan Hospitals, and the boards of guardians had accommodation for some 300 more; making a total of 820 beds, or about 400 ahort. In the course of a fortnight, however, the number of beds would be increased by upwards of 500, so that the provision would exceed the cases known to be in existence. Some of the accommodation furnished by the guardians was, however, of an insufficient and temporary character, and it might be requisite to have 200 or 300 additional beds. Of the 400 cases unprovided for the majority were at Bethnal-green, Shoreditch, and Whitechapel. A report had gone abroad that at Shoreditch there were 420 cases unprovided for; but that number was made up by an erroneous cal-culation. The real number of cases unprovided for at Shore-

ditch was about 150—certainly far too many.

Mr. Muntz obtained leave to bring in a Bill to amend the law for the prevention of adulteration of food and drink and

On the motion of Mr. W. E. Forster, the Select Committee On the motion of art. W. D. FOUSET, the Collect Communication at Citie (1867) was nominated as follows:—
Mr. W. E. FOUSET, Mr. Cave, Mr. Candlish, Mr. W. H. Smith,
Mr. Muntz, Lord R. Montagu, Mr. Jacob Bright, Sir S. Child,
Dr. Lyon Playfair, Mr. Holt, Mr. Taylor, Sir D. Corrigan, Dr.
Frewer, Mr. Alderman Carter, and Mr. Hibbert, with power to send for persons, papers, and records.

On Monday, February 20,
Dr. Lush asked the Vice-President of the Council whether

t was his intention to bring in any Bill for the amendment of the Medical Acts during the present session.

Mr. W. E. Forster said it was not intended to bring in such

Mr. W. E. Forster said it was not intended to thing a number of a fill in the present session.

On Tuesday, Mr. Charley, in moving for leave to introduce a fill for the better protection of the lives of infants, said the House would admit the necessity for such a fill. The leading

provision of the Bill was, that it should not be lawful for any person to nurse for hire apart from their parents any children under a certain age without being furnished with a licence from a magistrate, and a certificate from a magastrate, or minister of religion, or registered Medical Practitioner, that the ister or religion, or registered Medical Practitioner, that the applicant was of a good character and was able to supply children with food and lodging. The licence would endure for a year, and would be revocable. The Bill would impose penalties on persons taking children without a licence, and it made provision for the registration and inspection of children. At the suggestion of the right hon, gentleman the President of the Poor-law Board, the Bill contained a clause to the effect that the provisions of the Bill should not interfere with the management of pauper children.

ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

It is at such a season as this that we all feel most fully the need of a registration of public sickness. Valuable as the mortality returns issued from Somerset House undoubtedly are, they fail to tell us the very thing which we are most anxious to know. They tell us how many people have died of smallpox after an illness varying from a few days to a week or two; but as these deaths relate to persons who have been ill for varying periods, and are not all even registered in the week in which they occur, they furnish only a very rough idea of the real progress of the epidemic from week to week. Even thus they are necessarily behind date to the extent of the average duration of an attack of fatal small-pox, and we fail to learn from them whether the disease is growing milder as the epidemic runs on, or is becoming more fatal to those attacked. The Health Officers of the metropolis at one time published statistics of the kind we now so greatly need, and had it not been for the occurrence of a spasm of governmental economy, we should still have continued to receive the benefit of their observations. We understand that the Association of Medical Officers of Health is about to supply the public with the in-Ometeis of Ivasair as stocke to supply the position was con-formation now required as to the new cases of small-pox ob-served week by week in the metropolitan districts. If all law Medical Officers of Health units in this effort, they will merit the best thanks of the public at large. Awaiting this publi-cation, we may give the following numbers, as showing the weekly progress of the disease in two parishes—namely, Islington in the North, and Whitechapel in the East, as fur-nished to us by the Health Officers of each respectively, commencing from the end of November :-

more and			01011		•	
		N	ew C	ases.		
. Week					Islington.	Whitechapel.
November	26.	1870			17	16
December	3.	**			17	18
**	10,	**			23	25
**	17,				24	31
**	24,	**			24	25
22	31,	22			16	18
January	7.	1871			16	20
* "	14,	99			38	33
**	21,	**			23	19
**	28,	21			44	30
February	4,	12			20	32
**	11,	**			34	25
	18.				36	31

It is curious to notice how the weekly fluctuations cor-responded for the most part in these two districts of London, although situated so far apart. It would be difficult to core-estimate the scientific value of similar returns if they were gathered from all the parishes in the metropolis. We add the following

New Cases of Small-pox in Public Practice of the undermentioned Districts during the Week ending February 18, 1871.

Whitechap	el .					which	sent to H	
St. James,					14,	27		15
St. George,	Han	over-	equare		28,	**	**	22
Holborn			٠.	٠	14,	**	**	11
Lambeth					18,	**	**	
Islington				٠	36,	17	99	23

HISTORY OF THE FIRST FRENCH VOLUN-TEER AMBULANCE.

By ONE OF THE SURGEONS. Now Prisoner of War at Versailles.

(Continued from page 171.)

"Misery" and "wretchedness," taken in their full sense, would give as true an idea of the condition of the wounded in Metz as any picture which I may be able to draw. Imagine 40,000 wounded, or more, suddenly collected during a summer season in and around an unhealthy, unprovided town, itself

surrounded by two great armies.

surrounded by two great armies. Mots, in ordinary times, is a city of 60,000 inhabitants; but this number was greatly increased by refugees from the adjoining townships. Already, during the first days of August, when families from the distance were moving in to seek shelter there, an order was issued that everybody entering the fortrees must come provided with thirty days' previsions. But, even if this measure had been carried into effect, which it was not, that quantity of food would have been quite insufficient to last during the entire Morss. Peaseatts, with their boushold goods, came swarning into town: all brought furniture, bedding, and articles of value, which they wished to awe from destruction, but only a few thought of food, either for themselves or for their animals. The number of inhabit-satie was thus increased to flully one-half.

Another fact which sugmented the population of the city, and consequently helped to make hygienic conditions worse, and so the tearing down of all buildings and dwelling-houses which fell within the reach of the batteries of the rampartum the so-called "arriviseds withinters." The necessity of such an order was inexplicable; for everyone must admit that, once the outer forts taken or flanked, the city could make little or no resistance. The destruction of these houses was therefore useless, and, besides driving those inhabitants into the already overcrowded city, thereby converted the many pretty parks, walks, and gardens of the environs into one vast military camp. If these properties had been left undisturbed, the immediate circumference of Metz would not only have been kept much cleaner, but enough garden vegetables could have been raised to supply citizens as well as soldiers. There was not a tree, not a shrub, left standing; the magnificent old poplars on the road-side, the nurseries even, all shared the same fate. The surroundings of Metz became a waste, a perfect wilderness.

Sull another, and not the inseat unbappy, charge—one which was necessary, it is true, but which helped to cut down the effective of the army and filled the Hospitals at a fearful rate—was the inundation of all the country south of Mert, between Forts Queueleu and St. Quentin. The Moselle—the valley of which is ortatiny as pictureque as that of the Arno-had to be used as a weapon against the enemy. By means of sluices it is possible to swamp the country for a great distance, and thus assist in the defence of the city from the southern side. All this would be very well provided soldiers are not obliged to camp alongside of such lands, and as long as winds from that direction, impregnated with the marshy poison, do not blow over the city and encampments. If the inundation of these lowlands could have been kept at a standstill, so as to cover equally and continually the decaying and decayed regetables below, no harm could have come from it; but this was impossible. Owing to the rise and fall in the river from the heavy rains which fell during the months of August, September, and October, great irregularities occurred in the inundation. When the waters had receded to near the normal level. which the waters and recorded to near the normal level, as first intended, acres of land were left exposed, covered with decayed vegetable matter. Now, if to the first two facts, aqueous deposition and vegetable decay, we add a certain amount of solar heat, the third necessary element to give rise to malaria, the third necessary element think, to produce the various so-called "maladies a quinine;" also, doubtless, do we pave the way for "typhoid," and other low types of fever resembling it. It is true that the enormous amount of this disease, which so greatly decimated the ranks during the last thirty days of the blockade, in October, was during the last intry days of the blockade, in October, was principally due to insufficiency of proper food, to want of stimulants, to exposure, damp, and to moral depression; but at the same time it cannot be denied that the nightly absorpas the same time it cannot be against the nightly assorp-tion of a malarious atmosphere must have come in for a good share in the development of the disease. While on the subject of "malaria," I wish to remark that no one need be astonished if at some later day Surgeons who were in Metz during the blocus should publish cases of purulent infection cured by quinine. Those of the Medical officers who did not take into account this fact may have been led into error, in more than one instance, and looked upon every "frisson" as the beginning one instance, and looked upon every "frisson" as the beginning-of pyrmin. The mistake is the more likely when quartered in a locality where purulent infection caused such frightful-havoe as it did with us. The Surgeon preoccupied with that ldes, and forgetting that a wounded man is equally liable to be taken with a chill from a non-Surgical cause, instantly considers the case one of purulent infection, and orders the pet remedysulphate of quinine. Soldiers, moreover, are often so ignorant and so little observant of themselves, that unless they are particularly questioned, one may suppose the chill, which by particularly questioned, one may suppose the chill, which t chance falls to the observation of the Surgeon or the infirmic to be the proclaimer of the "dreadful disease." Several of such cases occurred in my ward ; but I do not flatter myself to have

cases occurred in my ward; out 1 do not nater mywell or have cared purishent infection by quinine.

So much for the surroundings of Metz. As to the city itself, things were no better. If we take a glance at the place as it was during the blockade, we find all the barracks, schools, and public buildings converted into Hospitals. Over 2000 wounded were lodged here and there in the houses of the inhabitants. The promenade of the city, a beautiful square called "L'Esplanada," was immediately after the battle of the these grounds. Another 2000 went immediately arter 146 battle of the 16th put into requisition for tent Hospitals. A forest of tente of the old sugar-loaf pattern, close as they could stand, covered these grounds. Another 2000 wounded were thus stored away." Stored away "is, indeed, the word. Each tent, in time of peaceintended for six well men, now contained from eight to tens wounded, packed like salt herrings in a barrel, with the feet pointing towards the centre. All were bedded on straw, and pointing towards the centre. All were occured to nerve, with old army blanket, provided they had had the good fortune have it near them when picked up on the field of battle. As-to aheets or pillows, these were out of the question. The Esplanade ambulance, if such a name might be given to such a miserable affair, was a sad sight, and I, for my part, cannot imagine how Surgeons there could ever have applied the most simple bandage, much less an immovable apparatus, or performs an operation. The mortality, of course, was frightful. Adan operation. The mortality, of course, was institut.

joining the Esplanade was another open space, a sort of militaryparade ground, large enough, I should say, for a regiment to bedrawn up in line. Here the shelter for the wounded, instead drawn up in line. of tents, was railway baggage cars. These cars were again divided into upper and lower story, by means of a wooden partition, so as to afford double room. In some of the cars partition, so as to afford double room. In some of the care-those which had no plank partition—the wounded were swing-ing in hammocks. The idea of putting a wounded man into a hammock seems too ridiculous, and I cannot for my life see what sort of cases they could be fit for, nor what kind of curse one could expect to make in them. Of these cars there were ten in a line, and ten or twelve rows, in all from 100 to 120, each crowded to overflowing. As to the success of the treat-

remt crowned to overnowing. As to the success of the treatment, I suppose it is necless to asy anything.

On the plane called "He de Chambière," at the northeastern portion of the city, had been exceted thirty barracks, built and distributed somewhat after the fashion of the United States Hospital Barracks, near Washington, capable of accommodating each from sixty to seventy patients—all lying upon the floor, of course, as in every other ambulance. It is hard enough work to lean over wounded placed in bods from two to two and a half feet high, but it must be exceedingly tiresome to have to dress sixty or seventy patients in a morning, storping and kneeling down. Near the south-western part of Metz, on a low tract of land called "Sauley," figured another tent ambulance, quite after the pattern of the one on the Esplanade already mentioned, only four or five times as large, and still worse organised, if possible, than that one. No necessity to enumerate every ambulance in and around the city. The above will suffice to show that the wounded in Metz were not to be envied. As to the Medical attention they received, especially about the commencement of the blocus, before death diminished their number, I need but give as an example the patients brought into my own tent from the "Saulcy ambulance." Out of twenty-eight wounded whom I received, not one had been looked after for three days, and six of them had not had their wounds dressed for a week. Some of the latter presented the most horrible bed-sores which have ever come to my notice. It is. impossible to form an idea of the dreadful mismanagement which pervaded every part of the Medical department, and especially in these outer ambulances made up d l'improviste. in these outer amountaces made up at impresse. Insee walk of Medical aid was not as great as may be supposed; but the distributions were badly made, and there seemed to be no head to the whole. This, above all, was the case with volunteerSurgeons, Physicians, nurses, and everything that was volun-teer. I am now perfectly convinced that the volunteer system cannot exist and do well in a regular army. In saying this, I do not mean to make an exception in favour of the First French Ambulance, to which I belonged; although we might lay claims to have done some good, inasmuch as two of our Surgeons received the much-coveted "red ribbon," about which so many Frenchmen go crazy. I should be willing to surgeons received the much-coveted "red mnoon, about which so many Frenchmen go crary. I should be willing to accept volunteer Surgeons, only with the understanding that they become militaire for the time being, after the manner of the Prusaians; and certainly I should never enlist "underassistants," the most of whom are students, and quite unfit to attend the wounded. Their place is much better occupied by

good infirmiers. Writing about the neglect of the wounded in Metz, the ladies, too, come in for their share. I am far from advocating that ladies should dress wounds and do Hospital work; on the that indies should dress wounds and do Hospital work; on the contrary, to me, a lady at that moment is quite out of place. But in the midst of so much suffering, when everything was done a great dead one a way or another. There were some, of course, who devoted themselves night and day; but all in all—I am sorty to have to say so—I have never seen less attention shown the wounded than there. The fact of having already a friend or relative in the house to take care of it not crough in friend or relative in the house to take care of is not enough in the presence of so much misery and want. What I say of the ladies, in respect to the wounded, is equally true of the men as regards the army. They all played the soldier admirally well in the city, and even on the ramparts, but to undertake an important mission, such as getting through the lines—which, for a person born and raised in the country, was quite possible during the first thirty of roty days of the blockhed at least— to carry a letter or a dispatch, not a soul ever offered to do, although the fats of the whole country depended upon it Take any other country—take Germany, for instance—and re-verse matters, and an attempt of this kind would have been made, I am sure. The people of the Lorraine did not prove the great patriots of old. There was a great deal of talk, but little action to the purpose; and my own impression is that

utter account or too purpose; and my own impression is that main French, provided they are left slone.

The first few days following the battle of St. Privat (August 18), our ambulance did very little; not that there was nothing for ns to do, but in the confusion and excitement which cistack, we had had no particular work assigned to us, and, to tell the truth, we were not at all anxious to take Hospital duty, which would have interfered with our original planthat of following the army, for which purpose, in fact, we were more especially organised. It was not until the 22nd, when there could be no longer a doubt as to the blocus, that we set

to work to form an ambulance of our own.

After having thoroughly examined every quarter of the town, we at last were fortunate enough to find still one more spot left which had not yet been taken charge of for the spot left which had not yot been taken charge of for the wounded; this was a triangular space, about 150 metres long, called "Jardin Fabert." The greatest objection to the place was its size, which was altogether too small for our numerous personnel, and the material at our disposition; but, finding nothing else, we lost no time in putting things in order for the reception of the wounded. At the entrance of the garden was a large wooden building, intended, I should say, for a pleasure hall, afterwards used as a gymnasium, but of late altogether deserted. The Moselle was on each side of us.

deserted. I he Acossile was on each seaso us.

Before looking up this place for an ambulance, however, we had again attempted to make ourselves useful by going into the senury's lines to bring away the wounded left there after the battle of the 18th, but this time with less success than on former occasions. With some twenty-five or thirty waggons behind us, we started, on the morning of the 21st, in the direction of St. Privat. Arrived at the village of Rozericulles, direction of St. First. Affived at the vinage of nozerome, we already came upon Prussian outposts, who, seeing our flag—at that time a little more respected than during the latter portion of the war- allowed us to approach without saying a The ambulance which we inquired after, they thought, must be in Gravelotte, or still further in the rear. here mention that the uniform adopted for the French volun-teer ambulances was of a dark blue, so that, especially with the brassard on, we could easily be mistaken for Prussians, which seems to have been the area of this course. which seems to have been the case on this occasion, for we not only passed the advance picket, hat also scouts, and occasionally an officer or two, all of whom saluted and answered questions politely. We thus managed to go on without difficulty nntil, suddenly, when in sight of the platean of Gravelotte, the battle-ground of the loth, we found ourselves in front

of a Prussian corps d'armée and an intronded Prussian camp. M. Lefort and myself being ahead, we ordered the waggons and until we could gather come information as to the wherehouse of our wounded, but also to see if it was prudent to venture any further, for we were evidently spectators of a seene which might not be agreeable to the Prussians. The first officer assisted but ut or ide to bend-quarters, a house on the right of the road, a little ahead of us, where we should probably find the "General Stabs-Arzt." We here did find not only the Surgeon-in-chief of the corps, but also a General—Manteuffel, I think who wanted to know "how in the devil we came here?" either of us gave signs of understanding German (I began to think it was best not to understand), the General repeated the same question in French, only a little less rudely. M. Lefort answered that we had simply come to look for the wounded answered that we had simply come to look for the wounded which had fallen into Prussian hands on the 18th, as had been allowed us on previous occasions. After having told us to return immediately where we had come from, and never again return immediately where we had come from, and never again to abow our faces in his camp. I heard that officer order one of his staff to have the whole advance guard severely punished. We had scarcely riden 500 yards on our way back, and I had already thanked fortune for getting off so well, when we were accounted hy some captain or major, who, too, wanted to know what we were doing here. Our answer that we were going to Metz did no good. "Foss safter gives soot "(a) he said, and off we were marched again to head-quarters. I was too far off to understand what was said about us, hut, at any rate, the consultation between the officers resulted in an order to have no sent to the rear, instead of letting us go on to Metz. Fortunately, in the course of the argument, and seeing that things were beginning to look rather awkward, M. Lefort mentioned that he had been with the Prussian army in 1864, against Schleswig-Holstein; that he could refer them to Count von Stolberg, formerly Grand Master of the Johanniters, etc.; all of which had the desiredfor effect; so that, after ordering us to bandage our eyes, we were led back to Rozerieulles. To show the russ of the Prussians, I might add that the soldier who was sent to lead our horses understood French perfectly; however, he could not have gathered much from the conversation which passed between M. Lefort and myself. We were only to glad to get ont of the scrape, and I can assure you we did not commit ourselves. Once ont of their clutches, we concluded that, if ever again we were obliged to go for our wounded in the enemy's hands, we should no more try and pass as Prussians, but halt at the outposts, and have our business announced on right

As matters turned out, we ought to be thankful that we As matters turned out, we ought to be thankful that we failed in our mission; for surely the wounded were much alied in our mission; for surely the wounded were more about the surely surely thankful th Businarck's circular of January 9, 1871, in which the Chancellor of the German Confederation declaims against the French for not having observed the rules of the Geneva Convention, as though the Prussians had never been guilty of any wrongs against the white and the red-cross band. Why not tell the truth of the matter, and acknowledge that the Geneva Convention has become a complete farce during this war, and that the same has been totally disregarded by hoth parties.

If it will do any good to give individual cases, I might add to the already-mentioned murder of a French Surgeon, near to the aiready-mentoned murder of a French Surgeon, near Gravelotte, on August 16, by a Frassian Uhlan—firstly, that the Second French Volunteer Ambulance, Professor Mare Sc Surgeon-in-Chief, was made prisoner at Pont-à-Monsson on August 17th, and sent to Cologne; secondly, that the Thir French Volunteer Ambulance, Professor Ledentu, Surgeon-in-Chief, was taken prisoner near Gravelotto on Angust 16, and held there for over a month; two of the Snrgeons who managed to come to Metz afterwards assured us, moreover, that the ambulance had been badly treated by the Prussian anthorities; thirdly, that I and one of my assistants, Mr. Bovlan, were arrested at Villeneuve-le-Roi on November 16, while on our way from Metz to Versailles, with our papers and everything in perfect order. Here we were kept and and everything in perfect order. Here we were kept and guarded over night until next morning, when we were sent, between two gendarmes, to Versailles, where, hy order of General von Voigts Rhetz, commander of the place, we have remained ever since as prisoners of war, on parole, with the

⁽a) I have distorted the spelling of the phrase " your aller over mot" to give it the way the Germans pronounce French.

freedom of the city. So, both parties have violated the Geneva Convention, and the less that is said about the matter the better.

In one of my previous letters I observed that this war had been the means of disabusing my mind of the utility of volunteer ambulances; and I can now say that it has done the same in regard to the Geneva flag. Both are good in their way, but it it is oxocedingly difficult to make them work right in time of war.

NEW BOOKS, WITH SHORT CRITIQUES.

n the Tonic Treatment of Gout. By JAKES C. DICKINSON, M.R.C.S., late of Her Majesty's Indian Service, and for-merly Staff-Surgeon Crimean Army. 8vo. Pp. 128. Bail-lière, Tindall, and Cox.

• • • From considerable experience in India and elsewhere, the author has come to the conclusion that asthenic gout is now much more prevalent than it was in the time of Dr. Todd. He considers that later writers have not paid sufficient attention to this fact, nor to the necessity for a tonic plan of treat-ment in many cases which come under notice. The object of ment in many cases when come under notice. Ine coject or this volume, then, is to show the necessity of resting a great number of cases of gout from the beginning by tonics, and not to trust to "specifies" or a low diet and regimen, as very frequently resorted to. The work, which is divided into ten chapters, gives a full and accurate history of the literature of gout, together with the opinions of ancient and model or written. He has chapters out the pashology causes and sympgous, ogetiner win the opinions of ancient and modern writers. He has chapters on the pathology, causes, and symptoms, and troatment of gout; on "remedies," and general rules of living. To these is added an appendix of cases illustrative of the tonic treatment. Mr. Dickinson has succeeded in antibiotic matthiation. in putting in a succinct and clear form a mass of information respecting a very prevalent form of disease. The work can be referred to with advantage by young and old Practitioners.

The Descent of Man, and Selection in Relation to Sex. By CHARLES DARWIN, M.A., F.R.S. Two vols. London: J. Murray. Pp. 423 and 476.

**O "Yes" man, **IO.

**O" We will not do more now than announce the appearance of a book which has long been looked for by men alike of science and of no science. There is no man now living who based to widely and deeply influenced the minds of men of education.

**Durwin, and he views have been over more cordially said to the science of the scienc rectived in Germany than they have been even more cordially received in Germany than they have here. Curiously enough, they have made no great way in France. Followers will hail this new contribution from the pen of their master. In it his ideas are more clearly defined than before.

The Naval Medical Service. By F. J. BROWN, M.D. Second Edition.

. The second edition of this very able little work has been issued, in which the anthor, "having obtained more informa-tion, has modified the text where necessary, in order to show that by chapter 4, section 3, officers are allowed the option state by chapter s, section 3, omeers are allowed the option of the scale of retirement, or the active half-pay of their rank at the time of retirement." The author has also added to the text certain points that have been brought to his notice concerning the chief office of the department.

DR. JAMES WINGATE JOHNSTON, the retired Inspector of Hospitals and Floets, who has been awarded the good-service pension in the place of Dr. John Wilson, retired Inspector-General, who died in Angust last—entered the Naval Medical Service as Assistant-Surgeon on May 17, 1825, and, after serving in that capacity for upwards of six years on the North American and home stations, and on particular service, North Americas and nome stations, and on paracoust estrice, was promoted to the rank of Surgeon on January 27, 1832, and Pacific, and South American stations, and was also in charge of the course's ships. He was promoted to the rank of Deputy Impector-General on August 20, 1847, and served as Deputy-Impector-General on August 20, 1847, and served as Deputy-Impector-General on August 20, 1847, and served as Deputy-Impector of the Fieet, under the command of the Early Dundonald, on the North American and West Indian station; Junionaid, on the North American and West Indian station; and in the same capacity for four years, at Jamaican Hospital, during the provalence of cholera and yellow fever; and subsequently at the Royal Naval Hospitals at Deal, Chatham, and Greenwich. On March 21, 1869, he was promoted to the rank of Inspector-General, and his name was placed on the retired list in November, 1868. Dr. Johnston has been awarded Sir Gilbert Blane's Gold Medal, and is Honorary Surgeon to the Queen.

FOREIGN CORRESPONDENCE.

HOLLAND.

ROTTERDAM. THE SMALL-POX EPIDEMIC IN HOLLAND.

THE epidemic of small-pox is fearfully raging in our country, and those places where the inhabitants are the most orthodox are the worst off. It is a shame to hear the arguments against vaccination, mostly in the so-called religious "temples." You would believe you were amongst the worst sort of heathens when hearing their arguments, and there is no convincing

when nearning users arguments, as these people.

In Rotterdam, rescination and revaccination are carried on a great coils; but still there are many opponents who hold the argument of the proposed of the property of the pro

pox:		The Hague.	Utrocht.	Amsterdam.
Population .	Rotterdam. 121,027	92,021	60,421	274,931
Dec. 10, 1870	.)	33)	
, 17, ,,	. 39	32 52	87	20
, 31, ,	:)	75)	
Jan. 7, 1871	. 30	35	27	5
, 14, ,	. 37	86	26	δ
, 21, ,	. 55	126	33	10
,, 28, ,,	. 54	93	58	12
Feb. 4, ,,	. 62	112	45	18
, 11, ,,	. 63	_		
,, 18, ,,	. 84	***		

The mortality of Utreeht and the Hague, if prevalent in London, would give the monstrous number of 3000 weekly deaths.

GENERAL CORRESPONDENCE.

IS A LEGAL QUALIFICATION EXPEDIENT FOR MEDICAL PRACTITIONERS

LETTER FROM PROFESSOR BISCHOFF.

[To the Editor of the Medical Times and Gazette.] Siz.—If I take the liberty to ask a favour of you in the following letter, I do so with the hope that you will find a sufficient apology for the demand I make on your valuable time in the

interest connected with the subject.

You probably know that with us in Germany the renia practicandi for Physicians can be obtained only by passing an examination authorised by the State, and acquiring the degree examination authorised by the soles, and acquiring the express of Doctor of Medicine. I myself, and purpose the soles of the property of the State, the general high-standing of our German Physicians, and the flourishing condition of our Medical faculties have been established and maintained. There are, however, at present moderarours made among us to abolish this institution, and, as in England and America, to leave it to the option of everybody to practise Medicine even without having passed an examinan and obtained a degree.

It would be of great interest to me to have your opinion on this matter, and I should be very much pleased if you would have the kindness to answer me the following

questions :-

1. Do you think that the option to pass an examination or to practise Physic without having passed one, has ever conduced to further the study of Medicine, or to stimulate to greater

zeal and diligence in its pursuit?

2. Do you not think that the privilege to be a Practitioner without thorough knowledge warranted by an examination assists and increases blundering and charlatanism in Medical

practice ? 3. Do you think that the public have sufficient judgment and discernment to guard against Physicians that have not passed an examination; to avoid them, and to rely on such as have been examined, because it is known that the former have made no thorough studies, and are for that reason less instructed?

4. Have experience and observation not tanget that the

366

200

24

180

120

injuries inflicted on the health of the public by Physicians that

have not passed an examination are great and manifold?

5. Has it not been observed especially that, with respect to Forensic Medicine and to Medicine in so far as it relates to police, great evil has been caused by Physicians who had not passed an examination, and that by such, through their use of poisons, of means to produce abortion and the like, crime has been aided and increased?

6. Do you think that these evils, or these causes of fear of unrestricted Medical practice can be checked by legislation and by punishment for mischief done?

By simply answering these questions from your experience and observation, you would do me, and perhaps, also, our whole Medical Profession, a great service. For that reason I beg of you a speedy answer. I am, &c.

Dr. Bischory, Professor of Anatomy and Physiology to Munich. Elisenstrasse, Munich, February 6.

CHLOROFORM ADMINISTRATION. LETTER FROM MR. JOHN ASTLEY BLOXAM.

[To the Editor of the Medical Times and Gazette.]
Sin,—As a favourable notice was taken in your paper, dated
February 4, of my method of administering recovary 4, of my method of administering chloroform, I beg to enclose a drawing of the bottle, which is exceedingly portable and simple. No assistant is required in the ad-ministration, and the chloroform being spread over a large surface of lint, the amount of atmospheric air mixed is very great, and not limited. The objectionable mouthpiece is also not present. I believe it is safer, also, as you do not trust to the regular action of some set of valves, which are liable to get out of order, but to your own attentive observation of the case. The bottles so graduated are to be ob-tained of Messrs. Arnold and Sons, Smithfield,

I am, &c.,

JOHN ASTLEY BLOXAN. Chloroform Administrator and Sprgical Registrar St. Bartholomew's Hospital, late Assistant-Surgeon Royal Horse Guards.

St. Bartholomew's Hospital, London, February 22.

at 3s. 6d. each.

ALLEGED GERMAN BARBARITIES. LETTER FROM DR. P. GIRALDES.

[To the Editor of the Medical Times and Gazette.] MONSIEUR LE DIRECTEUR DU MEDICAL TIMES AND GAZETTE. Dans l'intérêt du respect dû aux conventions internationales, je viens vous prier de vouloir bien insérer la présente lettre dans votre plus prochain numéro; et vous prier de vouloir bien agréer l'expression de mes meilleurs sentiments. P. GIRALDES

Membre de l'Académie du Médecine. MONRIEUR LE RÉDACTEUR,—Parmi les episodes douloureux du siège de Paris, il importe de faire connaître, et de porter à la connaissance du monde savant, et en particulier du monde Médical, le mépris des autorités allemandes pour les conven-

Médical, le mépris des antorries allemandes pour les conven-tions de la Réunion Internationale de Génève. En effet, non seulement le pavillon de Génève a servi aux Allemandes à couvrir des convois de vivres et de munitions, mais encore, ils n'ont pas hesité à tirer sur les ambulanciers qui le

encore, us u out pas neaue a urer sur les amoulanciers qui le portaienteta blesser ettuer quelques uns de ces hommes dévoués. Mais pour couronner l'œuvre, Monsieur de Bismarck a consenté, et Monsieur de Moltko a fait exécuter, sciemment, de propes délibéré le bombardement, pendant le jour et la nest, des hépitaux et ambulances

Appliais et amouiances. Au nombre des Hôpitaux bombardés, très-reconnaissables gar leur dôme élevé, et par le drapeau de Génève qui les decorrail, se frouva l'Hôpital Militaire du Val-de-Orloc, et l'Hôpitol de la Salpétrière. L'Hôpital du Val-de-Orloc a reçu dans son enceinte 92 obna

de 14 et de 22 centimètres de base ; il a fallu déménager cet

L'Hôpital de la Pitié en a reçu 100 du même calibre.

L'Hôpital des Enfants et l'Hôpital Necker, établissements très-visibles des batteries de Meudon, d'ailleurs surmontés du drapeau de Génève, ces deux Hôpitaux ont été bombardés jour et nuit.

Cet acte d'infame brutalité, digne de la sauvagerie des peaux Rouges, doit être signale!

J'ai l'honneur d'être, Monsieur, Votre scrviteur, P. Gibaldes, Chargé d'un Service Militaire à l'Hôpital du Val-de-Grâce; Membre de l'Académie de Médecine.

ADVANTAGES OF BICHLORIDE OF METHYLINE. LEPTER FROM MR. CHARLES GAINE.

[To the Editor of the Medical Times and Gazette.] Sm,-In April last I read a paper before the Bath and Bristol branch of the Bristol Medical Association on "Ansesthetics," oranno or the Bristol Medical Association on "Amesthetics," and in it endeavoured to explain the advantages which, from repeated experiments, I thought the "bichloride of methy-lene" possessed over all others then known. Since that time I have administered it in a great number of operations, not only in my own special practice, but also for my colleague, Mr. Stockwell, at the Royal United Hospital, and in private practice, with the most marked success; notably in the following operations:—Lithotomy, reduction of dislocations, fietula in ano, recto-resional fistula, resection of kneel-joint, amendment of the contraction of the cont putation of log, excision of mamma, necrosis, cataract, iridectomy, putation or reg, excason or mamma, necross, cataract, indecedomy, etc.—the oldest person operated upon being a woman, aged 70; the youngest, a child, aged 6 years. The shortest time in which amesthesia was produced was twenty seconds, in a child, to sound for stone in the bladder; the longest, two minutes and a half, in a man, aged 24, for extraction of teeththe shortest time which anesthesia was maintained being forty seconds; the longest thirty-five minutes. The recovery has always been rapid and complete.

I first administered the bichloride of methylene in some

half-dozen cases in 1868, but discontinued its use, because I found it less manageable than chloroform; the cause of my failure then, I have since discovered, was the admission of too much air in administering it. I subsequently employed the protoxide of nitrogen in my own practice, but the peculiar physiological phenomena exemplified in using this gas never

physiological parameters exemplified in using this gas never impressed me so much in its favour as it has many others. In January, 1870, I read a paper by Mr. Bader, of Guy's Hospital, published in the British Medical Journal of January 9, "On the Administration of Chloroform and other Amesthetics." The Assimilarization of Chlorotorin and other Amendedeck.

In this paper the cause of my former failure with the bichloride was fully explained. I therefore resolved to give it another trial; and to the courtesy of my friend Mr. W. R. Wood, of Carlisle House, Brighton, and Mr. Rendle, of Guy's Hospital, I am inducted for some valuable information as to the manner I am indepted for some variance information as we are managed of administering it, and to the latter gentleman for a description of his inhaler also. This inhaler I have found to answer the purpose admirably. It consists of a hollow cylinder made of thick leather, about five inches long, and ahaped at one end to fit the nose and chin, the other end having small one end to fit the nose and cann, the other end naving small holes punched in for the admission of air. It will be necessary to have three different sizes, as the efficacy of inducing rapid ancesthesia with the bichloride of methylene depends on the inhaler accurately fitting the nose and chin, so as to prevent the admission of air at that end. A flannel bag hangs loosely

within the cylinder, on which the methylene is sprinkled.

The following rules I have found of great importance, and the strict observance of them will tend greatly towards success the struct observance of them with temperary towards success in the administration of this agent :—It should never be ad-ministered without first preparing the patient. Abstaining from food and stimulants of every kind should be insisted on for from three to four hours before the time appointed for administering it; all garments should be loose. Auscultation not revealing any morbid condition to contraindicate its use, the methylene may be administered in the following manner: the mc(ny)-ole may be summissered in the tout-way manuser.

The property of th eyeball is complete, though it will continue to roll about. eyeoan is compare, though it will containe to roll about, showing more of the selectiot than usual. The operation may then be commenced. Remove the inhaler entirely, until symp-toms of returning consciousness are seen, when, if the operation is not completed, renew the inhalation with half a drachm more methylene: in a few seconds the inhaler may be again removed. In this manner, by proper attention to symptoms, a patient may be kept under its influence for any reasonable time. Should the operation be of short duration, from forty minims Should the operation be of short duration, from forty minims to a drachm of methylene will suffice for most cases. With two drachms and a half I have kept a patient under it for thirty-five minutes for resection of the knee-joint. I have not had a single case of vomiting, and two cases only that gave me the least uncassiness, and these had both departed from the

rules laid down as to stimulants, etc.

To relate a number of cases would only occupy your valuable space for no useful end, but the following extracts from my note-book may not be uninteresting in comparing the effects of methylene with chloroform and protoxide of nitrogen on patients who had inhaled one or other of these agents before. In January last I was consulted by a clergy-man who, some five years since, had on three different occasions man who, some two years since, had on three different occasions inhaled chloroform for removal of teeth. My friend, Mr. Fowler, who administered it, told me that each time he had the greatest difficulty in getting him under the influence of it, and he was always prostrated for nearly a week after it. It was necessary to remove some particles of necrosed bone in the upper jaw, and puncture a deep-seated syst. This was ac-complished under the influence of one drachm of methylene, and in three minutes from the commencement of the inhalation he was sufficiently conscious to converse with us, and inquire what had been done. He walked away a few minutes after, and has not subsequently felt the slightest ill effects.

and has not subsequently felt the slightest ill effects.

A young lady had inhaled "protoxide of nitrogen" in
London for tooth extraction. The first upper and lower
molars on the loft side were extracted; the corresponding teeth
on the opposite side were broken in the attempt. It was
necessary, for regulating parposes, to remove the stumps. She
asked me to give her chloroform; she said she would not take
gas again. Methylicne was attainistered, and the stumps removed, and in five minutes she walked away without feeling

any inconvenience.

In the case of a woman, from whom it was necessary to remove all the remaining toeth (twenty-two in number), I administered protoxide of nitrogen; she was so uproarious and subsequently became so blue with stertorous breathing, that I was only enabled to remove three teeth. A week later, I removed only enabled to remove three teem. A week later, I removed the remaining ninoteen under methylene at one sitting, seventy minims only of the bichloride being used. A quarter of an hour afterwards she walked home, feeling no ill effects, further than the loss of her teeth. Very many similar examples could I mention, but, as I have said, no useful examples could I mention, but, as I have said, so useful purpose will be served by as doing. Let it suffice that, in confined myself entirely to what I have observed in administering this agent, and am alone responsible for any short-comings in this respect. It is equally useful in long as in short operations, and only requires to be more generally undersaurt operations, and only requires to be more generally understood to give it precedence over all anesthetics yet known. In private practice I have usually been assisted by the family Medical attendant; at the Royal United Hospital, by Mr. H. C. Hopkins, the House-Surgoon. I am, &c.

CHARLES GATER

DR. BEAUPERTHUY'S TREATMENT OF LEPROSY. LETTER FROM DR. R. H. BAKEWELL.

(To the Editor of the Medical Times and Gazette.)

Sin,—It appears from a paragraph published in two of your Medical contemporaries, that the Colonial Department has requested the College of Physicians to select a gentleman to go requested the Courge of Physicians to select a generation to go out to Trinidad, to make inquiries as to the result of Dr. Beauperthuy's treatment of leprosy. The Colonial Office takes its time about everything, and it certainly is not in a hurry about this matter, which has now been before it about two years and a half. As I have no expectation of living to the age of the patriarchs, I shall not await the arrival of the gentleman from the College of Physicians, but will, with your permission, put before your readers (particularly those in the tropics) the present state of this question.

The method of treatment followed by Dr. Beauperthny will be found described in one of your numbers for May, 1870. It may be as well to mention that it consists of nourishing diet, with total abstinence from salt fish and pork; daily frictions of the whole body with cocoanut oil, followed after a few hours by soap-and-water baths; the application externally of cashewnut oil -a vesicant -and attention to the usual hygienic rules. Very small doses of the perchloride of mercury are administered twice a day. This treatment has been tried, first by myself, on some patients in this island; secondly, at Guadeloupe, by Dr. Brassar, who was sent by the French Government to Comana to investigate the method; and also by two other Physicians, whose names I forget, at Guadeloupe. Dr. Beanperthny is now at Demerara, by desire of the Demerara government, making arrangements for the treatment of forty lepers, whom the government will place at his disposal. He government, making arrangements for the treatment of forty lepers, whom the government will place at his disposal. He will also be allowed to undertake private cases. He came here from Cumana a few weeks ago, bringing with him two or three cases which he had treated and cured.

One of these, a young while crools, of Martinique, I saw at Cumana eighteen menths ago (May, 1869), in company with Dr. Brassac. The latter, in his printed official report, thus describes his condition:—"A. R. agod 22 years, son of a white crools family; no hereditary inducence. Disease commenced to the control of the c (non-tuberculous) of the uvula and epiglottis."

My own notes, after giving the history as above, are :—"The whole of the body, face, arms, and legs, covered with thousands of small round toberoles. On the arms, they touch one another, and form large thick masses. Respiration mass!; uclers on mucous membrane of nose." Both of us omitted to note what, however, was the fact, that there was no beard, and

Since his return I have carefully examined the whole of his body. There is not a trace of tubercle about him anywhere; his respiration is normal; the ulcers of the mucous membrane have healed, his beard and moustache have grown, and he is altogether in better health generally than he was. I confess
I did not know him again when I saw him, and until I saw
his portrait, taken at the the time of his arrival at Cumana,

I could not remember which of the patients he was.

Of course, the Leprosy Committee of the Royal College of Physicians will say, as they have done to other cases reported by me officially to the Government, that the case is either not cured, or never was a case of leprosy. But I venture to appeal from the College to the Profession, and ask them, until I am proved untruthful, to believe me when I say that, after seeing nearly 300 cases of leprosy, I know this was one, and I know nearry 300 cases or isprosy, I know this was one, and I know that, as far as any external signs of the disease go, he is now cured. I appeal to the Profession against the report of the Leprosy Committee, with the more confidence because these cases were not treated by any method of mine; and I have no interests to serve in the matter except those of science and humanity.

Another equally satisfactory case is one treated by myself (by Dr. Beanperthuy's method, of course). He was sent to me by the late Mr. Bury Irwin Dasent, M.R.C.S., and Surgeon-Generail of this colony. The disease was well developed on the face arms, and legs. Amesthesis of the affected parts was so com-plete that he came under my care with two ulcers produced by the application of red-hot charcoal to his flesh, which application he did not feel at all. He was not so long under observation and treatment as I wished, as he was very anxious to return to his wife and family; and, as he began to be melaneholic, and worried me every day with requests to be dis-sharged, I was obliged to let him go before the cure was perfect; nevertheless, the disease was arrested. There is [December 27, 1870] not a trace of tubercle left; sensibility has been entirely restored to the face, ears, and arms, where the ansesthesia was complete. The sensibility of the legs is nearly perfect, but not quite; however, where he could not formerly feel a live coal, he now feels the slightest pinch. There is one suspicious pale spot on the thigh, which ought to be touched, but I do not expect he will care to have it done, as he is at work every day, and is—like all Hindoos—excessively avari-cious, and nawilling to lose a few days work. He says he is perfectly well. He walked up from his home, twelve miles off, to see me, but went back without calling again. He first came under treatment on October 8, 1869, and was discharged at the end of February, 1870. The first application of the pure cashew oil was made on October 13. I had previously used a diluted oil, which was found of no use. A final application of the oil was made once after his discharge, on March 8. From

that date until December 27 I never saw him. He had persevered in a good diet, and took the internal remedy until the beginning of April. It must not occupy your space with other cases, several of which will be found in my official report. I trust that these two may be considered as showing that there is something in the treatment, although the Leproy Committee considers that my testimony is worth nothing, and "is no evidence of a cure having been effected."(a) I am, &c.,

B. H. BARKWELL, M.D., M.R.C.S. Eng., &c., Medical Officer of Health, etc., to the Colony of Trinidad.

Trinidad, January 8.

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

TUESDAY, FEBRUARY 14, 1871.

GEO. JOHNSON, M.D., Vice-President, in the Chair,

A PAPER, by G. W. CALLENDER, F.R.C.S., was read, on "Three Cases of Injury to the Brain, with an Appendix of Cases." In Cases of Injury to the Brain, with an appearant this communication attention is directed—first, to the frequency this communication attention is directed—first, to the frequency this communication with this communication attention is directed—first, to the frequency with which convulsions or rigidity are associated with paralysis of the left sids of the body, as compared with that of the right; secondly, to the occurrence of these symptoms in cases of injury or disease of those parts of the right; eccelerate of the right; eccelerate of the right; eccelerate of the right; eccelerate of the membranes and around the principal cerebral arteries as associated with the occurrence of convulsions, some cases of left side paralysis are quoted from the practice of St. Bartholomev's Horpital, three of which are given in detail. These cases, added to others recorded by various observers, give the followation of the convulsions of the convulsions of the convulsions in 7. Left side paralysis, 61; rigidity or convulsions in 39. Cases in which parts above the corpora striats are affected: Left side, which parts above the corpora striats are affected: Left side. which parts above the corpora striata are affected : Left side, 37 cases; convulsions in soven. Right side, 47; convulsions in 39. Cases in which the corpora striata, including the optic thalami, are affected: Left side, 11 cases; convulsions in 0. Right side, 13; convulsions in 0. For convenience of reference

Right side, 13; convalions in 0. For convenience of reference an appendix is added, giving the cases referred to, arranged in two tables, and an outline map of the brain.

Mr. Chorr saked Mr. Callender to give his theory more fully as to the nature and cause of the convalisions in these cases.

Dr. W. Oom said figures went to show that disease of the right side of the brain produced convalsions more frequently than did that of the last. This was important, as tending to show the same thin, if the was important, as tending to show the same thing. It was quite possible that the exceptions might be explained by the fact that left-handed people were much more common than was generally supposed.

were much more common than was generally supposed.

Mr. F. Clarke narrated the case of a boy, aged 14, whose head was struck by the chain of a crane and extensively fractured. The wound on the right side of the brain was deep, and an extensive hernia followed, but ut this half was deep, and an extensive hernia followed, but ut utimately the opening closed. He never at any time had spamms or paralysis, and after recovery he went back to his work, but his memory gradually failed, and he became imbedile.

Mr. Huwr referred to a case of injury to the head where the skull was fractured and the brain injured severely, yet recovery followed with little effect on the intellect.

Dr. WEISTER also narrated a similar case. Mr. CLOVER said convulsions were common after inhalation of nitrous oxide, but not on one particular side. He thought this tended to show that convulsions did not depend on any special influence on one side more than the other.

Mr. CALLENDER, in reply, said there were, no doubt, many causes of convulsions, but he had stuck to one point merely— viz., that certain injuries were more likely to induce them than were others. It was necessary that they should know more of the development of parts to be able to speak as to their relative functions.

A paper, by Robert Hall Bakewell, M.D., Medical Officer of Health for Trinidad, was read, entitled "Observations on the (a) Extract from the report sent me by the Secretary of State for the

Pathology and Treatment of Malarious Fevers." In this paper the author gives the results of his experience of malarious diseases during a lengthened residence in the West Indies. After giving an account of the various opinions entertained by different authorities as to the mode in which the malaria by different authorities as to the mode in which the mannia poison enters the system, he states his opinion that, when once there, it acts, not by producing any change in the blood which renders it unsuitable for the nutrition of the organs, but by readers it unsuitable for the nutrition of the organs, but by influencing specially the sympathetic nerves; and he attempts to explain the phenomena of the agnostic on this hypothesis. In his treatment of the mainroin diseases, the author relies on quinies and arenic, and states that the billious wenting and purging, which often, in the West Indies, accompany an experience of the second of t

Mr. HESCHALL SERTE thought the malarious poison was carried in the air. In Essex they planted trees to prevent its spread, and walls had been found to have a similar effect in Mauritius in protecting barracks. He thought it good to give essenties at first, large doses of back or quinine to stop periodicity, and arsenic after.

After a few words from Dr. WEBSTER, the meeting adjourned.

OBSTETRICAL SOCIETY OF LONDON. WEDNESDAY, FEBRUARY 1.

Dr. BRANTON HICKS, F.R.S., President, in the Chair.

THE PRESIDENT delivered an Inaugural Address. The following gentlemen were elected Fellows of the Society:—Clement Godson, M.R.C.S.; Fred. B. Hallowes, M.R.C.S. (Redhill); P. G. Philps, M.R.C.S.; Charles Read, M.R.C.S.; and W. H. W. Wilkinson, L.R.C.P.

Dr. HEYWOOD SEITH exhibited a Cast of the Head of a Child

he had recently delivered by cephalotripsy.

Dr. Protherous Smith exhibited the Pelvic Viscera of a woman who had died from spontaneous rupture of an ovarian cyst, complicated with a fibroid tumour of the uterus. The patient complicated with a fibroid tumour of the uterus. The patient had suffered from severe diarrhoan for eight months before coming under observation, and also from secral and bearing-down pains. The diagnosis, which was made vas correct, as verified by a post-mortem examination; but before any treatment could be adopted, the patient was saired suddenly with severe abdominal pain and vomiting, and she died in eight except the country of the c right side of the abdomen, and the peritoneal cavity contained two or three quarts of dark-coloured fluid, which was seen pouring out from an opening in the cyst immediately behind a globular fibroid tumour on the left side of the uterus. Dr. Protheroe Smith brought forward the specimen in evidence of the necessity

of performing ovariotomy early under similar circumstances.

The Passider observed that Dr. Protherce Smith had alluded A DO S RESIDENT CONSCIPED THE P. P. Trotheroe Smith had alluded to a very important point in practice—namely, how early the operation was justifiable in ovarian disease. There could be no doubt that many lives were lost whilst waiting, and he instanced one where another month would have rendered the

ration impossible.

Dr. PHILLIPS remarked that the early removal of an ovarian Dr. PRILLIPS remarked that the early removal of an ovarian over had occupied the attention of many Practitioners, and that an American Physician was so impressed with its importance as to advocate, in certain cases, the performance of the operation through the posterior wall of the vagina, while the cyst was yet small.

Dr. Barnes observed that there was another mode of dealing Dr. Barnes oper-red that there was another more or seeming with very early ovarian dropey, from which good might be expected—namely, to puncture the eyst through the vagina by Dresilafoy's aspirator, and to inject it with coline. If related a one in which this had been done, and thought the method deserved further clinical investigation.

deserved further clinical investigation.

Dr. Whitshiff and that the operation referred to by Dr.

Phillips was called elytrotomy. Had gastrotomy been performed for the removal of the ovarian cyst now exhibited, he
though the uterine fibroid might also have been removed at the

Dr. Edis exhibited an Ovarian Cyst which he had removed from a patient at the Soho Hospital on January 28. This case also exemplified the advantage of early operation. The adhealso exemplified the advantage of early operation. The adhesions had probably formed during the last month. The patient was doing well.

Dr. WILTSHIRE agreed with Dr. Edis that, as a rule, the vascularity of ovarian adhesions increased with their duration. He advocated the evacuation of secondary cysts before

He advocated the evacuation of secondary of the attempting to break down any adhesions.

Dr. Playfair read a paper "On Irritable Bladder in the latter months of Pregnancy." The anthor remarked on the frequency with which a severe and intractable form of irritable or the severe and irritable form of irritable or the severe and irritable or the s bladder was met with in the last few months of prognanc often giving rise to much distress and suffering, and little amenable to general treatment. He stated his opinion that many of these cases were due to a distinct mechanical cause—namely, pressure on the bladder, resulting from an oblique or transverse position of the foctus. He described how these cases could be recognised by a careful examination of the abdomen. With regard to treatment, he stated that little the additional. The regard to treatment, no sance time native or no benefit could be expected from drugs, but said that im-mediate relief could often be obtained by altering the position of the fortus in utero, by abdominal manipulation after the manner described under the name of "external version" by Wigand, Stoltz, Mattei, and others. He described the method by which this could be effected, and concluded the paper by detailing three cases in which the most severe forms of dysuria were immediately relieved by this simple procedure,

of dysuria were immoniately renewed by this sample processing, after the failure of every other plan of treatment.

Dr. Barkus said that if it should be proved that dysuria was a symptom of transverse or oblique position of the child, we should have a valuable indication to correct the malposition should have a valuable indication to correct the malposition before labour came on, by substituting external bipolar version under the most favourable circumstances for turning at the time of labour. He would sak why Dr. Playfair, having restified the position of the child, did not secure it in due relation to the axis of the stures? This could be done by a relation to the sais of the stures? This could be done by a man directed towards in a spirit of the seth pole of the futus, and directed towards and the said industry to the author for

and directed towards the medina line.

The Parantzers considered himself indebted to the author for pointing out the fact that obliquity of the uterus produced irritability of the bladder. He was, however, at a loss to account for it by the pressure of the fotus on the bladder, as account for it by the pressure of the fotus on the bladder, as aboulder, if not more, and that diverse quite as much as aboulder, if not more, and that diverse portion. He would be abounded the surface of the bladder—namely, the lower portion. He would be account of the bladder—namely, the lower portion. He would be account of the bladder—namely, the lower portion. He would be account of the bladder—namely, the lower portion. He would be accounted to the form of the bladder—namely, the lower portion. He would be accounted to the form of the bladder has been accounted to the form of the bladder and the disturbance to the form of the bladder. suggest another explanation—the disturbance to the form of the bladder by the altered form of the uteras.

DR. PROTHEROE SEITH inquired whether the author of the Da. Fastimous Skitta inquired whether the author of the paper had observed a want of inmbo-ascarla currature of the spine in the cases related by him. Dr. Smith had remarked in some cases of extreme irritability of the bladder in pregnant some cases of the training the properties of the addoment forwards—sendition which was projection of the addomen forwards—a condition which was

projection of the accomen forwards—a common which was effectually relieved by his pelvic band.

Dr. Playfalls, in reply, stated that all the cases had ter-minated by bead presentation. He did not, of course, hold that all cases of irritable bladder could be traced to this source. The three cases he had detailed were the only ones he had seen in which the transverse position of the fostus could be clearly made out

made out.

A paper by Drs. Braxron Hicks and Phillips, entitled "Remarks on Tables of Mortality after Obstetric Operations," was then partly read, and, on the motion of Dr. Barnes, seconded by Dr. Rogers, the further reading of this paper was adjourned to the next meeting.

ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

SATURDAY, FERRUARY 18.

DR. DRUITT, President, in the Chair.

THE PRESIDENT read a letter from Dr. E. Ballard, who said he did not think the Privy Council's new system of vaccination was at all to blame for the present epidemic of small-pox, but Description of small-pot, but the thought that more encouragement ought to have been given, before the outbreak, to revaccination. The regulation by which the fee for revaccination as fixed at only two-thirds of that for primary vaccination, led the guardians to consider revaccination of any secondary importance. The Belland was for primary vaccination, led the guardians to consider revacci-nation of only secondary importance. Dr. Ballard was not assumed to the properties of the properties of the better that, especially at the best of the properties of consider the Act of 1867 complete; there was too much cir-cumlocution, too many people, and too many offices. A letter was read from Mr. O. Turner, of Peckham, calling attention to the Hospital Marquess manufactured by him.

The Parsider laid before the Society a number of old pamphlets written about the years 1800-1895, including a por-trait of a boy affected with so-called ox-pox. One writer prophesied that vaccinated children would be covered with red hair like cows, and would roar like bulls.

Dr. Daurrt then read some remarks on what ought to be called Successful Revaccination. He said that many public vaccinators were in doubt whether they should get paid for revaccination unless successful. What is successful revaccina-tion? He believed to be that there must be more than the tion? He believed to be that there must be more than the effects produced by puncture with a clean lancet—this was failure. There must be evidence that some morbid agent has been introduced, although it may not produce its fully-developed phenomena. The effects of revaccination may be divided into four classes, according to the susceptibility of the patient; and the duration of these varies between five days and three weeks. Thus, there may be, first, a small, dry, itchand three weeks. I has, tarre may be, hirs, a sman, dry, and gradually finding; or, secondly, a papile, with an abortive vesicle on its summit on the fifth day, attended with some tiching and tumefaction and irritation in the axilla, and, after the fifth day, sumersection and irritation in the sxiias, and, arter the Bitth day, shrivelling and drying up; or, thirdly, a vesicle coming to its height on the eighth day, showing an inflamed ring on that day, and forming a sach, which drops off about the fitteenth day, leaving a shallow cicatrix; or, lastly, there may be on the eighth day a transparent vessicle, with central depression, on an arola of a pale rose colour, to which succeeds more or less tumefaction, coming to its height on the tenth day, but not tumefaction, coming to its height on the tenth day, but not completing its career till it drops as a sea bo on the twenty-first. This was regular vaccination; and, in both small-pox and the second of the second of the second of the second disease the more abovly are its phenomena abovn. Every variety of modified small-pox has its analogue in what may be called the modified vaccination, the sesential feature in both being that the disease is shortened and its local pheno-mena restricted, that superfield destruction which conditions mean restricted, that superficial destruction which constitutes the pit being groutly isseemed or entirely absent in both eases. Most unhappily, much of what is described as the third degree —a dry, flattid vessle, with an irritable ring (as in the draw-ing exhibited)—passes as successful primary raceination. Re-vaccination is an operation which requires to be performed with more extre and circumspection than the original. The lymph cupit to be of the most active kind, taken from the lymph ought to be of the most active kind, taken from the arm and used immediately; and as it is inherently less likely to lead to perfect results, so all causes of failure ought to be the more carefully excluded. This being done, the operation should be paid for simpliciter, regardless of results, for these are out of the operator's control. He knew some conscientious vaccinators who used to object to calling revaccination success-ful unless it produced a nearly normal pustion on the eighth day; but, as their trouble is the sam in all cases, it is every unfair that they should be deprived of their reward very unner that they should be deprived of their rewards because the original vascination has retained its protective efficacy. He hoped that the present epidemic will deliver us from the exaggerated statements of those injudicious friends of vaccination, without which all the efforts of the anti-vaccination fanatics would be fatile. One of these is the statement that vaccination ought to externinate small-pox. This confounds two entirely distinct things; the existence, extra, of a morbid poince, likelite origination fat of existence, extra, of a morbid poince, likelite origination fat of existence, extra, and the like—at lintervals more or less regular, and under the quainted. It is just as reasonable to say that umbrells aprevent tunderstorms, as that vaccination can prevent a small-pox epidemic. It enables us to protect ounselves, but there always must be in the nature of things a margin of persons liable to the disease, and these will suffer. Vaccination must be liable to occasions failures in quality. It is stated by Dr. Gregory, trickety, and ill-developed children of our large towns often give an irritable, premature, and hastily-developed vesicle with cination fanatics would be futile. One of these is the stategive an irritable, premature, and hastily-developed vesicle with imperfect cicatrix; and it is probable that a change for the better in the constitution of such children may be attended. orsect in the consumuou of such children may be attended with revived susceptibility of small-pox. It is possible, too, that the same causes which give greater intensity to the virus of small-pox may also render the constitutions of the people more susceptible. He heard, in the Profession, that never have revaccinations succeeded as they do now. This shows that through some latent changes the populace have been more liable to the bane and the antidete alike. Epidemics of small-pox will recur from time to time; and the cry of the newspapers ascribing the origin to neglect of vaccination is ridi-culous and mischievous. We read, sometimes, Brussels is freefrom small-pox, whilst Paris is decimated -a striking instance of the value of vaccination. Next week, we regret that small-nox has been introduced into Brussels, and spreads. same is said of Ireland. But, we may ask, where is the boasted power of vaccination, if it does not defend from imported disease? The fact is, small-pox exists without us; we may hope for its extinction when poverty, filth, sordid houses and sordid clothes, tramps, and beggars shall be extinguished. Meanwhile, we may be content to enjoy the protection of vaccina-tion and revaccination, and not damage them by claiming powers and immunities unwarranted by reason and experience.

powers and immunities unwarranted by reason and experience.

Dr. Lurraurs quoted statistics showing that primary accination afficiently protection up to 30. Dr. Stone's experience at
long period annoug persons under 20 who had been vaccinated.

Out of 617 deaths in Berlin in 1864, 41 per cent. were of
persons over 20, of whom 11 per cent. had been well vaccinated.

The experience at Vicuna gave like results. Dr. Letheby was
of opinion that it would be advisable for the Association to

draw up a memorial on revaccination.

Dr. Blackman said he had, since January, vaccinated some 700 persons, and he never knew revaccination so successful as at the present time. Formerly there were about thirty failures out of 100, whereas now there were only about five. He believed that the same fact had attracted the attention of almost beneved that the same race man attracted the attention or amous every Medical man. He had lately inspected a school in Spitalfields, in which he found 25 per cent of the children without marks, although many of them had come fortified with certificates to show that they had been vaccinated.

Dr. Gibbon expressed doubts as to the efficacy of revaccina-Dr. Gimon expressed doubts as to the efficacy of revnecina-tion. In regard to the Pricy Council's system, its effect in his parish had been the dismissal of several good vaccinators. The accommodation provided by the guardians was a room 10 feet by 5; and they might imagine the resultat the present time. After waiting for hours, people went away in disgust. Dr. Gibbon maintained that dry lymph was very effectual, even 48'er having been kept for twelve years, and the thought that

stational vaccination was a mistake.

estational vaccination was a mistake.

Mr. Raddryrs said that with careful vaccination from arm to sam he found hardly a single failure. He expressed his represent the property of the property of the prevention at the prevention of the prevention of the prevention of the prevention of the prevention at the prevention of the prevention

primary vaccination as to payment. He doubted whether the extraordinary success of revaccination showed a more than usual liability to small-pox. He believed that all over the country there had been a great amount of very imperfect vaccinatio

Dr. Cossold then read a paper on the ova of parasites in relation to sewage, which will be found in another column. The discussion is reserved till next week.

EPIDEMIOLOGICAL SOCIETY. WEDNESDAY, JANUARY 11.

Dr. Milnoy in the Chair.

A PAPER, by Dr. JAMES CHRISTIE (of Zanzibar), was read

ON THE CHOLERA SPIDENICS IN EAST AFRICA. In this paper, Dr. Christie described the different cholera epi-demics which have occurred in East Africa. The first epidemic of which there is any definite knowledge began in December, 1835, and January, 1836, during the prevalence of the north-east monsoon. The disease was first heard of in the Somali east monscon. Ine casease was first heard of in the Somali parts, and it extended gradually along the coast in the direction of the monscon, from north to south, to some undetermined point south of Zanzibar, attacking that island in its mined point south of Zanzibar, attacking that island in its course. The second known epidemic occurred in 1859-60. This, like the previously-recorded epidemic, broke out in the months of December and January, during the strength of the north-east monason. The disease was first heard of in the Somil priva of Maircetesia and Brava. It passed rapidly proposed to the second private of the populous islands who such ward, descluding the towns of the populous islands who seems the continuous section of the populous islands as far as the Porture properties of the properti populous salands when irings it, increaing Adminor, and ex-tended as far as the Portugueses ettlements on the Mozambique. The third opidemic was first heard of at Zanzibar in April, 1865, as prevailing in the Somali parts, towards the close of the north-east monsoon. The extension was limited,

not passing lower on the coast than Mombasse. -west monsoon set in, shutting off all traffic to the southsouth-west monoon set in, shutting off all traffic to the south-ward, the progress of the discouse in that direction was arrested, but the epidemic struck off to the interior of Africa from The fourth epidemic, which has hardly yet come to an end, was first heard of as approaching Zanzibar in October, 1869. This epidemic differed remarkably in the line of approach from the previous epidemics. The earliest news of it in Zanzibar cann, not from the Somail coach, but from the interior of the continent. It was reported, towards the end of October, 1869, passing through the country of the Wamasai, a district lying between the Victoria Nyanza and the east coast, had been between the Victoria Nyanza and the east coast, had been attacked by a deadyl plagure, and that this fatal disease had extended through the Usambara country, and to the coast towns of Tangi and Pangasin. This "plague" proved to be cholers; and on October 27, if not earlier, the epidemic appeared in Zanzibar, between which island and Tangi and Pangasi communication by native craft is almost of daily occurrence. Subsequently, the disease passed northward along the coast, against the monacom, can from Mombassa the profession of the coast of the coa towns as far as Cape Delgreto, and it was carried by native craft to the Comoro and Johanna Islands. There was a recrudescence of the epidemic in Zanzibar and some of the coast cusecone or the epidemic in Zanzibar and some of the collect towns in January, or early in 1870, and in May it appeared at Mozambique. Mombassa was not the only point from which the epidemic left the coast to pass inland. It is believed that every infected town on the mainland disseminated the disease every infected town on the mainland disseminated the dissect to a greater or less cretar in the neighboring country. For the two properties of the neighboring country. For the have followed the great ivery carvan ronte to the interior, and raged in Wegura. Usagari, Ugoga, and Mganda Michali, at an early period of the epidemic. The morthity from this countries was frightful in many localities. It is estimated to have amounted to 15,000 in the town and suburbs of Zanzibar, among a population estimated at 70,000, and to 25,000 through-out the island—the entire population probably amounting to 300,000

In addition to Dr. Christie's paper, extracts from official communications of Dr. Kirk, H.M.'s Acting Political Agent communications of 19r. Bark, H.M. a Acting Follitical Agent and Consul for Zanzibar, relating to Cholera in East Africa, and communicated through the Medical Department of the Privy Council Office, were read by the Secretary. The principal facts stated in the official correspondence had been included in

Dr. Christie's paper. The SECRETARY also made known to the Society that information had been received from Tamatane, dated October 10, 1870, to the effect that a disease resembling cholera had broken out at Mojarga, on the North-west coast of Madagascar.

The discussion on Dr. Christie's paper was adjourned to the next meeting of the Society, February 3.

OBITUARY.

COUNT CYPRIAN C. WOLLOWICZ, M.D.

It is with much regret that we announce the death of Count Wolkowice, Staff Assistant Surgeon in her Majesty's army, as an old and noble Polish family, whose property was confiscated in consequence of the active parts taken by its members in insurrectionary movements for the re-establishment of the independence of Poland. On the failure of the attempt, he studied Medicine at Berlin and Munich, and in 1856 took the degree of Doctor of Medicine at the University of the latter city, and having subsequently adopted England as his country, he became a naturalised subject, and in 1867 obtained the diplomate of the Royal Colleges of Physicians and Surgeons of vice as Slaff Assistant-Surgeon, having taken the second place among fifty competitors. He served in the Abyesinian cam-paign in 1868, and there probably contracted the disease which eventually proved fatal to him. For served months past he had suffered from attacks of diarrhors at irregular intervals, latter than the second place and the second place degree of Doctor of Medicine at the University of the latter last few months symptoms of dysenteric nature appeared, and were attended by very marked constitutional irritation. Large quantities of pus were latterly discharged from bowels and bladder, and it was evident that some very serious organic lesion had occurred.

The post-mortem examination revealed extensive ulceration particularly of the large intestines, with adhesion between the ileum and the right side of the fundus of the bladder, through which a perforating ulcer of the bowel had effected an opening. All the soft tissues in the true and false pelvis were in a state All the sort thiseus in the true and raise peris were in a state almost of sphacelation, and the bone was in some places in a carious condition. The inflammatory action had also extended to some distance among the muscles of the right high.

The early doath of Count Wollowicz is felt as a very serious.

loss to the Army Medical Department, in which his extensive general and Professional attainments were calculated to have given him a high position, his name having already appeared, associated with that of Professor Parkes, F.R.S., in two papers associated with this of Protessor Parkes, F.R.S., in two papers lately read before the Royal Society on the influence of alcohol on the human body. As a personal friend, he was deservedly esteemed as a true, warm-hearted gentleman, and his loss is deeply lamented by all who knew him.

LEGAL INTELLIGENCE.

COURT OF COMMON PLEAS, February 17. (Sittings at Nisi Prius, at Guildhall, before the LOND CHIKP JUSTICE and Special Juries.)

Mr. James, Q.C., and Mr. Gibbon were for the plaintiff; the Solicitor-General and Mr. Morgan Howard for the defendant. This was an action for slander, imputing to the plaintiff misconduct as a Medical man. In the course of the trial, the

Lord Chief Justice said there had clearly been a misunderstanding, and on the Solicitor-General stating that his client denied having uttered the words, or even having them in his mind, a juror was by consent withdrawn. Thus each party pays his own costs.

MEDICAL NEWS. University of Dublin .- At the spring commence-

ments held on Shrove Tuesday, the 21st inst., in the Examination Hall of Trinity College, the following Degrees in Medicine and Surgery were conferred by the Right Hon. Sir Joseph Napier, Bart., Vice-Chancellor of the University:— Baccalaurel in Medicina.

Crooslé, Franciscus Clements, Hatchell, Ebenezer Johannes, Lloyd, Rickard Edvardus, Morgan, Johannes.

Stoney, Hugo Baker. Thompson, Edvardus Carolus, White, Gulielmus Rogerson.

Crooslè, Franciscus Clementa. | White, unamber of Doctores in Medicinal. | Morgan, Johannes. Magistri in Chirurgid.

APOTHECARIES' HALL. — The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday,

February 16, 1871 :-

Briggs, George Chapman, Horneastle. Burroughs, George Edward Elton, Little Hampton, Sussex. Renwick, William, Tyr Phil, Giamorganshire. As an Assistant in Compounding and Dispensing Medicines:-

Savory, Harry Banting, Painswick, Gloucestershire The following gentlemen also on the same day passed their First Professional Examination :-

Piggott, Edward Alfred, St. George's Hospital. Salmon, Alfred Lidgey, St. Bartholomew's Hospital.

APPOINTMENT.

• • The Editor will thank gentlemen to forward to the Pub-lishing-office, as early as possible, information as to any new Appointments that take place.

JONES, Mr. C. S., B.A., M.R.C.S., etc.—Assistant Dental Burgeon to the Dental Hospital of London.

MILITARY APPOINTMENTS.

MEDICAL DEPARTMENT.—Staff Surgeon Robert Watson, from half-pay, to be Staff Surgeon, sice Staff Surgeon-Major Alexander M'Arthur, M.D., deceased.

BOYAL ARTILLERY.—Staff Assistant-Surgeon Forbes Dick, M.D., to be Assistant-Surgeon, vice Junes Watt, M.D., deceased.

BIRTHS.

BRETTINGHAM.—On February 14, at Goodwick, South Wales, the wife of Charles Brettingham, late H.M.'s Bengal Medical Service, of a son.

- CLARK.—On February 13, at The Cottage, Dunster, Somerset, the wife of Thomas Clark, M.D., of a son.
- GAIRDNESS.—On February 16, at Glasgow, the wife of W. T. Gairdner, M.D., of a son. GANGE.-On February 19, at Paversham, the wife of F. A. Gange, M.D.,
- TROUNCER.—On February 90, at Harford House, Surbiton, the wife of J. H. Trouncer, M.D., of a son.
- J. M. Trouncer, m. D., or a son. Wanaux.—On February 17, at Prince's Bisborough, Buckinghamshire, the wife of Thomas Warren, M. B. C. S., of a son. Wixtranorhau.—On February 20, at Arundel Mouse, Bay's-hill, Cheltenham, the wife of Lauriston Winterbotham, Surgeon, of a daughter.

MARRIAGES. markhadez.

murachil.—Branz.—On February 15, at South Bersted, Sussex, the Rev.
Edward B. C. Churchill, incumbent of All Saints, Portson, to Effen
Mary, elder daughter of the late Joseph M. Beane, M.R.C.S., of Peekham, Surrey.

EASTERN-LUNE.—On February 15, at Hilston, Holderness, Arthur Henry, youngest son of John Eastern, Eq., to Eliza Gray, second daughter of William J. Lunn, M.D., both of Hull.

winiam J. Lunn, M.J., 1905 of Rull. Dowards—Walzs.—On December 19, at 8t. James's Cathedral, Port Louis, Mauritius, Charles Frederick Edwards, M.R.C.S. Eng., General Sanitary Inspector and Acting Officer of the Civil Status, to Mary Susanna, eldest daughter of Douglas Wales, Esq., late of the H.E.I.C.S., of Port

Louis.

Louis.

As ween.—On Perruny 15, at the Cubbolic Guarth, Righton Questand Analysis; Commander, on Mangarie, Gelett, Sandwick Germander, on Mangarie, Gelett, Sandwick Gelett, Sandwick, M.D., of the Meesnis, Mondroft l'Amazur, France.

Hastins—Wateriste.—On February 16, at 81. Georges, Campden-hill, Knonington, Richard, third son of 1. D. Barris, M.D., of Ebrock-house, Ashwell, Herst, of Usfreieriet, delett daughter of Hamy Wakefold, Berj.

Jorne—Patty—On February 21, at the Parish Church, Rarnes, Surrer, William Harry, second son of George William Jones, Sey, of 55, Seezer-street, Strand, to Charlotte, only daughter of James Paul, M.D., of Louisdae-Hills, Barnes.

LUNDIN-BROWN-STEVENS.—On February 21, at St. Botolph's, Bishopagate-street, James Lundin-Brown, M.D., to Sara, daughter of T. O. Stevens, Eq., Overs-hill, Gloucestershire.

Eq., Overa-hill, (Nouesterehire.
NEW HAM-HOORS.—On February 16, at 8t. Luke's Church, Southampton, A. Perry Newman, M. D., son of A. Newman, Eq., J. P., of Monktown, Cork, to Jesse Maria, only daughter of Richard Hoops, Eq., Commander R.N., of Wilton Lodge, The Avenue, Southampton.

mander R.N., of Wilton Lodge, The Avenue, Southamptone, Bolser Levels, Southamptone, Marcurvons—On February 11, at 88. Marylebone Church, Bolser the late Andrew Mokation, Beg. of Trindiad, W.I. and Sungain and Church, Adaladie, South Australia, He Rev. Bishardene Beid, Incomber of Trindia, Valuer, Adaladie, South Australia, be Rev. Bishardene Beid, Incomber of Trindia, Valuer, Adaladie, South Australia, barry Jane, edient daughter of Goorge Mayo, F.E.U.S.E., Adaladie, South Australia.

SHITH—BUNGES.—On February 15, at the Wesleyan Chapel, Wells, George John Smith, second son of the late Dr. George Smith, of Treva, Corn-wall, to Jans Symons, eldest daughter of Edward Burgess, Esq., of Mountroy, Wells.

MULIAMO BRITTAIN.—On February 14, at St. Bridget's Church, Chester, Herbert John Mainwaring Williams, Captain 4th (King's own) Royal Regiment, to Whelmina, edest daughter of T. Brittain, F.R.C.S., of Bollands-ouri, Chester.

DEATHS.

COLLIES, ROSERT, youngest son of the late Robert Collins, Surgeon, at Leyton, on February 15, aged 48.

Letjud, on recreasy 10, agec 48.

Donovax, Ex-aue Ocore, third on of Dr. Donovan, of 44, Manor-road,
New-cross, at Hongkoog, on January 9, aged 30.

Fox, Agentaata, Eq., son of the late Francis Fox, M.D., of Derby, at
Ramagato, or February 14, aged 71.

Assumption, our accuracy 18, aged 11.

Erass, Dr. Jons, at 40, quess'-road, Baywater, after three months' severes illness, on February 18, deeply regretted.

LOFILL, TRESONE EXIL DECRIFIC, third son of Anna Lovell, Willedden, and the late Dr. Henry Lovell, of Aspley, Beds., at Manaheim, Germany, of securite free, on February 18, aged 18.

SLOAN, JOHN, M.D., Deputy Inspector of Hospitals and Fleets, at Mount Edgeumbe-terrace, Stoke, Devoport, after a long illness, on February 19,

Edgeum WATLEN, FREDERICK HENRY, Staff Assistant-Surgeon, youngest son of the late Alfred Waylen, of Guildford, Western Australia, on his passage home, on January 23, aged 26.

Wollowicz, Count Cyraian, Army Medical Staff, at the Royal Hospital. Natley, on February 20.

In the following lief the nature of the one vescent, the qualifications required by the Candidates of the one vescent application should be made, and the day of election (after as known) are stated in succession. Binarronas (P. nans ep).—Medical Officers wanted for five districts of real control of the co

MARTO 10. Essection on the FIG. Dynalax U Niro. —Medical Officer for District No. 3. Candidates must have the qualifications prescribed by the General Orders of the Poor-law Board. Applications and testimonials to G. Wenden, Clerk to the Guardians, on or before March 15.

KENT COUNTY OPERTALMIC HOSPITAL.—Consulting Surgeon; must be duly qualified. Applications and testimonials to B. Pearson, Esq., Scarctary, Maidstone, on or before March 18.

MALE LOCE HOSPITAL, 91, DEAN-STREET, SORO-SQUARE, W.— Burgeon. Applications and copies of testimonials to the Secre or before February 27.

North Obesst Cottage Hospital.—House-Surgeon. Applications to W. Skinnes, Esq., Coatham, Redcar.

BERRIES, LORIZIARIA, ROUGEZ,

ROYAL BOUTH LOYNON DISPERSAY, ST. GEORG'S-CROSS, LAYRETE-BOAD,

S.E.—Honorary District Surgeon. Applications to Mr. Hentsch.

Sr. Praris' Roserrat, rox Sroves are Derivary Disperses, 54, Berresstrater, Loydon, W.—House-Surgeon. Applications and testimonials
to the Hon. Secretary.

Marriagram Rosident Obstetric-Assistant; must be quali-fied to practise under the Medical Registration Act of 1858. Applica-tions and testimonials to the Secretary of the Hospital on or before the 38th inst.

WORGESTER GENERAL LYPINKARY.—House-Surgeon's Assistant and Dis-penser. Applications and testimonials to the Secretary on or before March 1.

YORK DISPREART.—Resident Medical Officer; must have both Medical and Surgical qualifications. Applications and testimonials to the Secretary at the Dispensary, on or before March 4.

POOR-LAW MEDICAL SERVICE.

• The area of each district is stated in acres. The population is omputed according to the last consus. RESIGNATIONS.

Grossend and Milos Diss.—Mr. James Arrastrong has resigned the Milos District; area 703 inc.—Mr. James Arrastrong has resigned the Milos District; area 703 inc.—Mr. Vivian Wearne has resigned the First District; area 16,741; population 6893; j. alway 164 per annum. Weedsteek Union.—Mr. J. G. White has resigned the First Woodstock District; area 6893; population 5890; askay 264 per annum.

APPOINTMENTS. Barnsteple Union.—Andrew Fernie, M.R.C.S. Eng., L.S.A., to the Third District. Union.-Richard W. Broster, M.R.C.S. Eng , L.S.A., to the

Misserton District.

—Henry T. H. Mand, M.R.C.S. Eng., L.S.A., to the Western District and the Workhouse.

Last Birling Links.—Cherry T. Savila, M.R.C.S. Zug., L.S.A., to the Reckey Criss.—Robert T. Graham, L.R.C.P. Edin, M.R.C.S. R.L.S.A. to the West Hardray District.

**Last Princip Criss.—Robert T. Graham, L.R.C.P. Edin, M.R.C.S. R.L.S.A., to the West Hardray District.

**Last Princip Criss.—Then. W. Hubbard, M.R.C.S. Eng., L.S.A., to the Yorkh District.—Then. W. Hubbard, M.R.C.S. Eng., L.S.A., to the Yorkh District.—Then.

Tabe Fourth District.

Melton Menbray Union.—Edward Brewster, M.B.C.S. Eng., L.S.A., to
the Waltham District.

Midhrest Union.—Alexander Yule, M.D., M.C. Aberd., to the Milland

Neath Union.—Henry Davies, M.B.C.S. Eng., L.S.A., to the Lianeamiet District.

District.

Reprice Union.—Herbert R. Archer, M.B. Univ. Lond., M.R.C.S. Eng.,
L.R.C.P. Lond., to the First District; Daniel B. Balding, F.R.C.S. Eng.,
L.S.A., to the Workhouse.

St. Ires Union.—Wm. H. D. Mence, M.R.C.S. Eng., L.S.A., to the St.

St. Ires Union.—will. D. D. Messay, managed of the Westhamp-ries District.
Mr. Robert Elliott, having cerved as a Medical Officer in the Westhamp-nett Union for a period of nearly forty years, has been granted a super-cumuation allowance of £30 per annum.

CLINICAL SOCIETY .- Papers are expected at the meeting to-like I Soulist : —I spers are velocited at the meeting to-light (Friday) from Mr. Gant, "On the Occlusion in Arteries after Acquiressure, with its Relation to the Treatment of Surgical Hemorrhage, and Compared with Ligature and Torsion;" from Dr. Broadbent, "On Faralysis of the Ophabalmic and Superior Maxillary Divisions of the Fifth Nerve, vamme and superior Maxiliary Divisions of the Fifth Nervo, and of the Branch to the Levator Palpebre from Syphilis;" from Mr. Henry Lee, "On a Case of Removal of the Tongue for Cancer;" and from Dr. Duffin, "On a Case of Roscola Variolosa."

A PRIVY COUNCIL order has been issued, directing local authorities to cause all cattle affected with pleuro-pneumonia within their district to be slaughtered.

THE Haberdashers' Company has sent ten guineas, and the Cutters' Company ten guineas, to the Royal Hospital for Diseases of the Chest.

PROF. FRANKLAND succeeds Prof. Williamson as Presi-

dent of the Chemical Society.

THE London tectotalers contemplate starting a
Hospital "for the treatment of disease apart from alcoholic medication."

ONE of the Medical Officers of the Metropolitan Asylums Board, at the usual fortnightly meeting, held on Saturday last, stated that the epidemic of small-pox has not yet reached its height. Out of 979 patients received into the Hospitals at Hampstead and Homerton, 140 had been received from Shoreditch.

WHY ?-The Director-General at Somerset House has only £1300 per annum, and is undecorated, while his Pro-fessional brother at Whitehall has £1500 per annum, and is a The status of the head of an important department such as that which Dr. Armstrong so ably fills, cannot fail to be of consequence to those who may have an intention of entering the Royal Navy, and should not be overworked.

GREENWICH HOSPITAL PENSIONS.—The new Greenwich Hospital pensions (for Medical Officers) will consist of one of £100 per annum for an Inspector-General, and two of £50 for

Anaptus pensions (or a found of more) win consist of one of Staff-Surgeon for an Impector-General, and two of 50s for Staff-Surgeon.

The Garden of Medicinal Plants, founded in Paris by an edict of King Louis XIII., dated January 3, 1626, and which became a museum of natural history on May 23, 1794, was nearly all destroyed by a Prussian abell on the night of January 8 and 9th last

PRESENTATION .- Dr. John B. Welch, late Resident Medical Officer at the General Hospital, Birmingham, has been presented with a secretaire and pocket-case of instruments by the resident officers, servants, and nurses, on his leaving the Hospital to go into practice at Handsworth.

PROPOSED INFIRMARY AT LANARK .- Sir Symon M. Lockhart, Bart, having proposed to rect an Infirmary at Lanark at his own expense, provided a fund can be raised for its permanent endowment, a public meeting has been held, at which about £300 was subscribed, in addition to £180 annual, and a committee was appointed to raise the further necessary and a committee was appointed to raise the further necessary funds, prepare a draft constitution, and report to the next meeting. It is proposed to have twenty beds, the cost of which is estimated at £500 per annum.

Naval Medical Cadets at Netley.—On the

NAVAL MEDICAL CADETS AT NETLEY. — On the recommendation of Dr. Armstrong, the Director-General, the Lords of the Admiratly have applied to, and obtained the permission of, the military authorities to send all candidates for the Naval Medical Profession to Netley, there to undergo a course of study. The advantages which will accrue to the young men who will, for the future, come forward to fill up vacancies in the navy, are numerous and great—they will have the benefit of clinical lectures, which no other College could afford, and the opportunity of becoming accomplished analytical

RATES ON CHARITIES.—Some months ago, when the overseers of Birmingham pressed for the issue of distress-warrants against some of the local charities for non-payment of poor-rates, the sitting magistrates declined to sign the warrants. Since then proceedings have been taken in the Court of Queen's Bench, and an order of the Court has now been served upon the magistrates, directing them to issue the necessary warrants against the Dispensary and the Eye Hospital.

SURGICAL SCIENCE AND THE WAR .- The lessons of the war to Surgical science are beginning to be made known. One of the most remarkable facts is, that the French soldiers One of the most remarkable facts is, that the French soldiers have suffered more from the Prussian shells than from the needle-gun and the bayonet combined. This is contrary to usual experience, but it agrees with Napoleon's reported remark to King William at Sedan as to the marvellous precision of the German cannoneer. It is also said that the cision of the German cannoncer. It is also said that the needle-gun bullets, though larger than those of the chassepôt, do not penetrate the flesh so far, and so make less serious wounds. Shell wounds are generally found to heal very easily, if no bones are fractured.

SAILORS AND SMALL-POX.—The Board of Trade have issued an official circular to all superintendents of mercantile marine offices, directing them "to take every opportunity of making masters, owners, and seamen acquainted with the fact that small-pox patients are not admitted into the Seamen's Hospital." The circular was issued in consequence of a seaman suffering from small-pox having been sent to London from one of the outports, under the impression that he would be received in the Seamen's Hospital at Greenwich.

SMALL-POR IN THE METROPOLITAN DISTRICT. - The SMALL-POK IN THE METROPOLITAN DISTRICT. — The following are the number of pauper cases of small-pox under treatment by Medical officers of districts and workhouses during the week ending February 11, 1871: — Unions and Pariabes: Bethnal-green, 81; Camberwell, 4; Chelsea, 3; Fulham, 7; St. George's, 189; St. George's-in-the-East, 16; St. Giles-in-the-Fields, and St. George's-in-the-East, 16; St. George's-in-the-Fields, and St. George's-in-the-East, 16; St. George's-in-the-Fields, and St. George's-in

HEALTH OF SCOTLAND .- 17,344 deaths were registered in Scotland during the quarter ending December 31, 1870, being in the annual proportion of 215 deaths in every 10,000

persons, or 2.15 per cent. The mean death-rate of the quarter during the ten previous years was 218 deaths in every 10,000 persons, or 2.18 per cent.; so that the mortality of the past quarter has been below its average. The English mortality during the same quarter has been considerably above its during the same quarter has been considerably above its average, for 126,660 deaths were registered in England during the fourth quarter of 1870, giving the proportion of 228 deaths in overy 1,000 persons, or 229 per cent; the average of the quarter during the ten previous years being 220 deaths in every 10,000 persons, or 220 per cent. Sociation and England were therefore in opposite conditions as to mortality during the past quarter. The death-rates in the four groups of the past quarter. The death-rates in the four groups of districts into which Scotland is divided, closely corresponded with the birth-rates in the same districts, being highest where the greatest number of human beings was massed together, and lowest in the sparsely inhabited rural districts. Thus, anu lowest in the sparsely inhabited rural districts. This for every 10,000 persons in each of the groups, 285 deaths occurred in the principal towns, 249 deaths in the large towns, 294 deaths in the samal towns, but only 164 deaths in the rural districts. In the divisions of Scotland, the to the rural districts. In the divisions of Sociland, the mortality during the quarter was nearly in the ratio of density of population in each. Thus, for every 10,000 persons in each division, there occurred the proportion of 126 deaths in the northern division, with 35 persons to a square mile; 163 deaths in the southern division, with 65 persons to a square mile; 211 deaths in the east-milland division, with 120 persons to a quarter mile; 221 deaths in the 120 persons to a square male; 231 deaths in the south-castern division, with 210 persons to a square mile; but 200 deaths in division, with 210 persons to a square mile; but 200 deaths in to a square mile. Of the eight principal towns, the mortality was highest in Greenook and lowest in Perth. Thus, the death-rate during the quarter was in the proportion of 22.4 deaths per 1000 persons in Perth, 21.2 deaths per 1000 persons in Leith, 21.2 deaths per 1000 persons in Perth. 21.2 deaths persons the control of the cast persons the control of the cast persons the cast persons

CHINESE DOCTORS .- The Aberdeen Free Press says that a taste has grown up among the Californians for being doctored by Chinese Physicians, according to the Chinese system of Medicine, and that one Chinese Doctor has refused an offer to leave San Francisco and go to New York, all his expenses to be paid, and 80,000 dollars secured to him for four years. He is chiefly wanted for his skill in the treatment of small-pox.

TREATMENT OF OTORRHORA BY SPIRIT OF WINE .- Dr. F. E. Weber, in continuation of a former paper on the subject, states that often-repeated experience enables him to state that in otorrhos, unconnected with caries or polypous growth, spirit of wine constitutes the best topical application, and one that is highly efficacious when there is chronic inflammation of the cavity of the tympanum, with more or less destruction of the membrans. The spirit must be quite pure, highly of the membrana. The spirit must be quite pure, highly rectified, and undiluted with water, and its application to the Fectined, and incurred with water, and its approximate the exposed membrane of the tympanum causes no pain, being in this respect, also, a preferable application to most other injections. In some sensitive subjects it produces a burning sensation, which passes off in less than a minute. Before applying the spirit, the ear must be carefully cleaned out by means of the syringe, air-douche, or pencil, when, the patient lying down, as much of it as the ear will hold must be poured in, and as much of it as the ear will hold must be poured in, and retained during five minutes, slight pressure and rubbing of the tragus being employed to assist its effectual penetration. After the spirit has been allowed to flow out again, the meatus must be thoroughly dried and plugged, so as to prevent the access of air. At first it should be applied three times a day, and afterwards twice, continuing it for some time after the oterrheas has ecosed.—Brite Kim. Wesl., January 9.

NOTES, QUERIES, AND REPLIES.

Be that questioneth much shall learn much .- Bacon.

Mr. Lawson Toit .- If possible.

- J. O. E .- One cannot be estitled to what is granted by courtesy alone. Nevertheless, we believe the title is almost invariably conceded.
- T. H. (D---- square) is thanked for his letter. He will much oblige by forwarding to us his anecdotes respecting the late Dr. Kerr, of North-
- Celebs should read P. W. Newman, "On Physiology and Sexual Morals," published by Trübner. The system he speaks of is an infamous one, leading to discuse of the womb and nervous exhaustion in the woman beastly selfishness in the man, and to utter demoralisation of the community. Look at France !

An Old Subscriber. - Youatt's is the best.

The Ophthalmic Chair at St. Thomas's Hospital,-It is said that the Governors of St. Thomas's Hospital have offered the chair of ophthalmic Surgery in the new school to Dr. Liebreich, who has taken refuge in this country during the war on the Continent. It always has been the policy of England to attract to herself the best men, and to give them free rights of citizenship, and the present seems a good illustration of the rule. The Governors ought to elect the best men, and if Liebreich be the best man, he ought to be elected. It is well known that large numbers of the English resort to Berlin and Paris for advice in sunders of the English resort to Decim and racis for savies on ophthalmic cases. It were well, then, that our rising men should learn what that foreign practice is. No English Practitioners will be injured; on the contrary, if the English Ophthalmic School is made stronger, we shall find German and French patients coming here for advice.

PERCHLORIDE OF IRON A TEST FOR CARROLIC ACID.

FREEMONIE OF 1805 A TEST FOR CARBOLIC ACID.

Fig.,— THE SUTTON OF THE RESIDENCE TIME AND GARFITT.

Fig.,— THE SUTTON OF THE RESIDENCE TIME AND GARFITT.

Fig.,— THE SUTTON OF THE SUTTON

- J. F. B. may defer his examination with propriety, under the circumstances of the case.
- A Member of the British Medical Association.—The journal was originally entitled the Provincial Medical and Surgical Journal. It was established by Dr. Hennis Green on his secession from the Lancet. Particulars respecting this and other journals will be embodied in a future article.
- A Reader .- The story is told as follows: Among Dr. Cheyne's patients was the celebrated Beau Nash, who, on being one day asked by Cheyne if he had followed his last prescription, replied in the negative, adding— "If I had, Doctor, I should certainly have broken my neck; for I threw it out of a two-pair-of-stairs window."
- Liber .- Dr. Niel Arnott, the author of the celebrated works on the " Elements of Physics" is still alive, and, we hope, in excellent health. It is somewhat remarkable that the second volume of the "Elements" made its appearance about thirty-five years after the first, but exhibited the same mastery of the subject and the same charm of composition as its predecessor.

OUT-PATIENT HOSPITAL REPORM.

OUT-TATTER HOSPITAL REPORM.

TO THE EDITOR OF THE MEDICAL THESE AND OARSTTE.

Sin,—Eindly allow me to acknowledge in your columns the receipt of
the following sums towards the expenses of the Out-patient Hospital
Reform Committee:—

I am, &c. ALFRED MEADOWS.

27, George-street, Hanover-square.

- ¹¹ A Medical Contemporary."—The Observer, in commenting upon some remarks of the Shields (sic), calls that publication a "Medical contemporary." We should be glad to know what are the claims of that eingular little production to be styled "Medical." The Observer must have been poking its fun at the Shield. The late Mr. C. Matthews used to state that he once asked a waterman at a hackney ceach-stand why he was called a waterman. The reply was that he supposed it was "because he opened coach-doors."
- Faccinator.—One of the best portraits of Jenner is in the picture of the Medical Society, over the President's chair in their meeting-room in Great George-treet. The great Societator was, at the time is likeness was taken, in the prime of life. The painter of the picture, Mr. Medley was the maternal grandfusher of Sir Henry Thompson, and dids at the age of 58, some years sizes, at Chahlam. It is a curious fact that Mr. Medley outlived, by nearly twenty years, the twenty-two members of the Society whom he so ably portrayed in his celebrated picture. If "Vac-DOGREY STORM HE SO ADDY POTENTIVE IN HIS CRESTRATE OF THE PROPERTY OF THE PROP Bociety.

VACCIDATION.

TO THE SOUTHON OF THE MEDICAL THEM AND OALSTIE.

BY THE SOUTHON OF THE MEDICAL THEM AND OALSTIE.

BY Thank's for directing my attention to your Livergood correspondent to form the contract of the contract o

called on me a few vernings ago, was quite enthusiants while describing a near of small-pox where one pushtise composite the ensure of the cientrix left by verceinable—bit is very. It was a resolved with a ring of pexiler age, and of these 20 there were only funder a year; while two also had reached their third year. These figures have led to the following conclusion are considered to the contract of the second of these 20 there were only funder a year; while two also had reached their third year. These figures have led to the following conclusion to the increased efficiency with which vendantion has been performed during that time. On the other hand, we find that in "the peat serves of the increased efficiency with which vendantion has been performed during that time." On the other hand, we find that in "the peat serves 85" occurred under 80 years of age, 80 between 50 and 40, 47 between 60 and 60, and only 12 at 60 years and unwards."

Set of the contract of the contract of the performance of the contract of the contract

COMMUNICATIONS have been received from

COMMUNICATIONS have been received from—

R. G., Mr. P. O. C. Dotta; Mr. F. J. Blower; Dr. H. Ossons; M. M. G., Mr. P. O. C. Dotta; Mr. P. J. Blower; Dr. H. Ossons; M. M. G. M. C. Mr. Developed and Galana; As Old Struccines; Dr. B. Hawkins; Meser. W. Woon and Gol. Mr. Lawas Tarr; Mr. C. H. Kars; Mr. Vercos Grand, Mr. W. G. M. G.

BOOKS RECEIVED-

BOORS RECEIVED—
The Describt of Man, and Sciention in Relation to Sex, by Charles Darwin, M.A., P.E.S., etc.—Beyor on the Sanitary Condition of the Whiteshapel Chinneys, their Core and Prevention, by Frederic Edwards, Inno-Packard Handbook of Operative Burgery—A Treatise on Gord, Electronic Property—A Treatise on Gord, Electronic Property—A Treatise on Cond. Electronic Property of the Property o

PERIODICALS AND NEWSPAPERS RECEIVED-

Nature—Pharmaceutical Journal—American Journal of the Medical Bésenes, January, 1871—The Dublin Express—The Bouth London Press —New York Medical Journal, February, 1871—Medical Press and Cir-cular—The Albany Morning Express—Woodhull and Claffin's Weekly —American Journal of Iosantity, January, 1871.

APPOINTMENTS FOR THE WEEK.

February 25. Saturday (this day).

perations at St. Bartholomew's, 1½ p.m.; St. Thomas's, 9½ a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 9½ a.m.; Royal London Ophthalmic, 11 a.m.

27. Monday.

Operations at the Metropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Peter's Hospital for Stone, 24 p.m.; Royal London Ophthalmit, 11 a.m.

39 p.m.; koryal tonoson Opensamme, i la.m. Mr. J. W. Barnes, "A Case of Suffocation by a Portion of Orange lodged in the Rima Glottidis." A Communication from Professor Erasmus Wisson. Dr. John Fennefather, "Obstructions of the Eustachian Tube." Dr. Edwards-Crisp, "On Small-pox: its Prevention."

28. Twesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopsedie, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Boyal London Ophthalmine, 11 a.m.

ANTHROPOLOGICAL SOCIETY, 8 p.m. Meeting.

AS HENOTODORIAN DOCIETY, 9 P.M. MECKING.

ROYAL INSTITUTION, 8 Pm. Dr. FOSEY, "Nutrition of Animals."

BOYAL MEDICAL AND CHINUBOICAL SOCIETY, 84 p.m. Dr. Althaus, "On Neuritis of the Brachial Fierus." Dr. Hilton Fagge, "On the Sporadic Cretinism coassionally seen in England.

March 1. Wednesday.

Operations at University College Hospital, 9 p.m.; St. Mary's, 12 p.m.; Middleex, 1 p.m.; London, 2 p.m.; St. Bartholomes's, 12 p.m.; Great Northern, 9 p.m.; St. Tomonas's 12 p.m.; Ophthalmick, Southwark, 2 p.m.; Samaritan, 2.0 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; King's College Mospital (by Mr. Wood), 2 p.m.; King's College Mospital (by Mr. Wood), 3 p.m.; King's London Ophthalmic, 11 a. M.

BOYAL MEDICAL AND CHIBURGICAL SOCIETY, Sp.m. Annual Meeting. ROYAL MICROSCOPICAL SOCIETY, S p.m. Mr. James Bell, "Notes on the Microscopical Examination of Water for Domestic Use."

SOCIETY OF ARTS, S p.m. Meeting.

2. Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmie, 1 p.m.; Royal Orthopædie, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmie, 11 a.m.

ROYAL INSTITUTION, 8 p.m. Dr. Odling, "Davy's Discoveries."

3. Friday.

Operations at Westminster Ophthalmic, 15 p.m.; Central London Oph-thalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m. MEDICAL SOCIETY OF LONDON, 8 p.m. Meeting of Council.

BOYAL INSTITUTION, 9 p.m. Capt. Noble, "Pressure of Fired Gunpowder."

VITAL STATISTICS OF LONDON. Week ending Saturday, February 18, 1870.

BIRTHS. Births of Boys, 1949; Girls, 1114; Total, 2363. Average of 10 corresponding weeks, 1860-69, 2155'4. DEATHS.

							Mal	08.	Female	m. To	rtal.
Deaths duri Average of Average cor Deaths of p	the	ten years	136	8	900 707-1	14	925 44°0 566				
DEATE	18	IN SU	B-I)IS	TRIC	TS	FRO	MI	PIDI	EMIC	s.
		Popula- tion, 1861.	Small-pox.	Monsies.	Searlet Fever.	Diphtheria.	Whooping-	Typhus.	Enteric (or Typhoid) Pever.	Simple continued Perer.	Diarrhose,
West North Central East South		458195 618210 883321 871158 773175	14	2 : 2 : 5	7 14 4 7 16	3 3 2	12 5 5 17 19	1 4 3 4	3 2 4 4 2	3 1 1 	2 3 3 3 3
Total		2803959	218	11	48	8	58	11	15	9	14

METEOROLOGY

From Observations	at	the	Gree	moich	Obser	vatory.
Mean height of barometer						. 29 923 in.
Mean temperature						42.7
Highest point of thermometer						. 54'7°
Lowest point of thermometer						. 26'5"
Mean dew-point temperature						. 38.9
General direction of wind .	٠.					8.8.W. & 8.W.
Whole amount of rain in the w	reel	. 1				. 0.02 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, February 18, 1870, in the following large Towns:—

	ion in 1871.*	cro.	during Feb. 11.	마유	Tem of A	pera ir (F	ture	Temp. of Air (Cent.)	Rain Fall.	
Boroughs, ste. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A (1871.)	Births Registered the week ending F	Deaths Regnitered the week ending F	Highest during	Lowest during the Week.	Weekly Mean of MeanDally Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimotres.
London Portsmouth	82594/19 135464	41'8			53.8	29 0	437	5·95 6·50	0.02	0.3
Norwich	81787	10.8	50	29		200	39.3	4:00	0:45	1.1
Bristol	173864	37.0			Sec.				12.5	***
Wolverhampton	74436			39	58.2	25.9	43.8	6-22	0.04	
Birmingham	378574	48:3		172	29.6	26.8	63 5	6.39	0.12	
Leicester	101367 90450	31 7 45 3				25'6		5:05	0.11	
Nottingham	520225					34 9		7:61	0.02	
Liverpool Manchester	379140					28.0			0.63	1.0
	123851	23.8				26-2			0.16	O'A
Bradford	149090					28-2			0.46	
Leeds	266108					27:0			0.63	
Sheffield	255247	11:1				95.0			0.43	
Hull	135195	3810				22:0			0.12	
Sunderland	108037	31'5								
Newcastle-on-Tyne	136293	25'8	195	68		25.0	48'0		010	
Edinburgh	179944	40'6	120	101	58:0	33.0	457		0 20	
Glasgow	477627	94'3				30.9			1.01	
Dublin (City, etc.+) Total of 20 Towns	822331	831	195	244	56.0	36.8	48.8	9.02	0.04	0.1
Total of 20 Towns	-		-	-	-	-	-	-		-
in United Kingd'm	7336941	8414	5447	3979	156 0	30.0	42.8	6.08	0.56	0.0
Paris - Week ending Feb. 18	1889841	96		l						
Vienna-Week end- ing Feb. 4	622087	68		379			23.0	-5.01		
Berlin-Week end- ing Feb. 18 At the Royal Obse	800000				l					

At the Boryal observatory, Greenwish, the mean reading of the baremeter in the week was 20 feb. In. The highest was 20 feb. in Saturday at Boost, and the lowest was 20 feb in on Sanday twenting. If the last, Note.—The population of Cities and Boroughs in 1870 is estimated on the assumption that the increase since 180 has been at the same annual ever, since the last census it is probable that the estimate may inseminate one of the same of the same intances be erroneous. The estimates for Leieseter, Nottingham, Leeds, Brandren, and Hall are based upon a lood enumeration of the inhabitor

 The actual numbers of the population of these cities and boroughs, as enumerated at the Consus in April sext, will probably be available before the middle of the year, and will then be substituted for these estimates. + Inclusive of some suburbs.

ORIGINAL. LECTURES.

LECTURES ON DISEASES OF ORGANS AND TISSUES, AS INFLUENCED BY THE NERVOUS SYSTEM.

By THOMAS LAYCOCK, M.D., etc., Professor of the Practice of Medicine, of Clinical Medicine, and of Medical Psychology and Mental Diseases, in the University of Edinburgh.

(These lectures have been revised, and somewhat extended, by Dr. Laycock.)

THE NERVOUS SYSTEM, AND TISSUE PATHOLOGY, AND THERAPEUTICS IN GENERAL.

When speaking on the clinical observation of diseases of the nervous system, I recommended you to consider the mechanism proper, separately from the auxiliary tissues, such as the bloodvessels. In investigating the influence of the nervous system on organs and tissues, it is necessary to make, as to them, a like distinction. The lung, for example, is differently influenced, neurotically, accordingly as the tissue affected is the fundamental air-cell or the auxiliary air-tube. For this reason, you will often see a single pneumonia with double bronchitis, but perhaps never a double pneumonia with single bronchitis; nay, more, for the same reason, I have seen a right pneumonia in a drunkard, with double bronchitis and bilious sputa; yet, on post-morten examination, it was observed that the coloured sputa came from the right lung alone. A like limitation of colour has been observed in a hemiplegic icterus.

Practically, the air-cell and air-tube are distinct mechanisms, but both have component tissues in common, like those of the nerve-centres. It is these tissues, common to every organ, which we will consider in their relations to nerve influences. To do this comprehensively and practically, we must note the effects of remedies, so as to be able to discriminate what changes belong essentially to tissues, and what to nerves, and to partioccoing essentially to thesizes, and what to nerves, and to parti-cular kinds of nerves. It is on these principles, and with these practical objects in view, that I shall direct your attention to the clinical pathology and therapeutics of the tissue disorders of neurotic origin which I have named trophesises.

Now, at the ontset, I must impress upon you an obvious, yet important, principle—namely, that, except as to the mechanism proper of nerve-cells and fibrils, the changes in the tissues generally represent, for diagnostic and therapeutic purposes, changes in like tissues of the nervous system. For example, the emptiness of the capillaries of the skin, termed ischemia, upon which nervous pallor depends, is the analogue of the ischemia of the nerve-centres, which, it is said, causes epilepsy. Heat, applied locally, causes certain changes in the tissues locally; as, for example, increased activity of the capillaries, or hypersemia. Heat will act on the capillaries of the nerves and appearance. It is a win act on the capitaties of the nerves and nerve-centres in like manner, if produced morbidity therein, and induce morbid activity of function, so that trophesies or acuroses result. To understand, therefore, the therapeutical pathology of these diseases, we must inquire both how a thorbid state of the nervous system influences changes in the organs and tissues, and how the nervous system is itself

argans and tissues, and now ton nervous system is users morbified therapeutically by action on its tissues.

To get rid of vague ideas on these points, let us first inquire what normal changes in organs and tissues are modified by the nervous system, and to what extent. 1. Undoubtedly those which subserve to a suitable temperature. 2. Those by which the formation, nutrition, and transformation of the tissues are effected, so that chemical affinity, vital energy, vis insita (of contractile and muscular tissues), and vis nervosa, are produced.

These we will name chemical changes. 3. The formation of the blood, including the blood glands and secretory functions necessary thereto. 4. The removal of effete matters from the blood and the tissues; this class of changes includes absorp-tion and excretion. 5. The changes in the vessels carrying the blood; as to which we must distinguish those occurring in the capillary system from those of the heart and arterial system. 6. Changes in the lymphatic system, including the vessels and glands; to this series belong, also, various changes in both the blood and tissues. If we consider anatomically how many of these varied changes belong strictly to the vass-motor system, we can only name those in which the contracting tubes are involved—the vascular, capillary, and lymphatic systems, the ducts of glands, and the muscles of hollow viscera (as the heart,

Vol. I. 1871. No. 1070.

stomach and intestinal canal, bladder, nterus). The other changes belong to a trophic system, as distinct from a vaso-

The next point to determine is, how these two systems are related to each other, and how they influence the tissues. fact is at once apparent: that, since tissues are nourished and undergo change independently of vessels, the trophical system thutergo crange mappeauentary or vessets, the trypinea system is before, and more general than, the vasa-motor. In the cun-bryonic stages of development, and in organisable plasma, changes begin and go on ladependently, not only of blood-vessets, but also of blood-corpuscies. Equally obvious is another fact of great importance—viz., that these same changes go on also independently of direct communication or connexion go on asso independently or direct communication or contention with the nervous system, even in mammals, although there may be indirect communication. But further, in protozoa and in vegetals, contractility, capillary action, the production of heat, transformation of tissues, and chemical changes ending in formation of basic elements, salts, acids, odours, all go on independently of any trace of a nervous system whatever. These considerations point to the conclusion that we must separate, both in thought and in observation, the chemical and mechanical changes from that agent or property of nerve by which they are regulated, and separate the nerve-tissue which regulates chemical changes from that which regulates mechanism—such as the muscles, bloodvessels, and contractile

This conclusion leads to another ; for since all these change whether mechanical or chemical, go on in adaptation to the ends of the organism, independently of a nervous system, it follows that all like changes which we attribute to nerve function—such as all reflex actions—are regulated by an energy identical in its results with the vis nervosa. Since the notion of such an adapting energy enters necessarily into all notions of life, it is termed the vital energy, vital force, vital principle. So far, then, as this regulative property is concerned, vital energy and via norvosa are identical.

I should hesitate to push farther what may appear to be a merely abstract question, were I not convinced, by long experience, that, the more our observations are made under the persense, that, the more our observations are made under the guidance of general laws, the more practical and successful we shall be at the bedside. Unenlightened experience in Medical to the property of the property of the property of the property to disastrons results. Let us, then, inquire when this regulative property means practically. We speak of what is "irregular" and "shoroma" in tribla activity as that which is "morbid." property means practically. We speak of what is "irregular and "ahoromal" in vital activity as that which is "morbid." What, then, is the rule or norms which is departed from in disorder and disease? Now, there is a great rule or norms of development, manifested first in the individual as an evolution from a microscopic mass of living matter-so small that about one thousand weigh only a grain; and, secondly, in the great scale of development of living things, of which man is the summit. Taking the word degeneration in its literal sense, it means a going back to a lower evolutional genus, or law of form, structure, function, and vital change; so that retrocession is the law of disease. As regards the individual development, involution, or the changes incident to age, is the law of morbid activity. Now, the via nervosa, as a regulative property, may be considered to be an evolution of vital energy as a regularity principle; and, in fact, it is manifested and needed exactly in proportion as evolution and differentiation of parts is manifested in the scale of development, and as the organs and mechanisms multiply that have to be regulated and combined into a harmonious whole. If, then, there be a defect in the vis nervosa as a regulative energy, there will be a retrocession of activity, and, with this, a retrocession in development and tissue-changes. This will be manifested by lower forms of development, or by lower kinds of tissue structure and tissue changes.(a)

Let us now see how these views will help us to therapoutical Let us now see now these views will neep us to ineraporuscus generalisations of practical value. The primary energy or force which the "vital principle" regulates is chemical affinity. In my psychological text-book (b) will be found my views on organic chemical affinity as an evolutional energy. Without chemical cnemical aminy as an evolutional energy. Without chemical combination of certain elements in a fixed and evolutional order (be it noted), with energy falls. You conclude, for example, that in a given case there is loss of power, or "askhenia," or a want of "tone," or "nervous debility," or "general" weekness—all phrases which inilicate the use of tonics, stimulants, atomachios ".i.e., of things which will restore tone, invigorate the nerves, "give a fillip" to the "system." Now, according to the

 ⁽a) See the text-book of the class, "Principles and Methods," second edition, p. 234, for the application of this general law of disease.
 (b) "Mind and Brain," second edition, vol. i., p. 388, 199.

242 Medical Times and Gazette.

principle laid down, that which restores vital energy will also restore nervous energy. Classify, then, the things you would prescribe in reference to energy, and you will find that they are either certain chemical compounds which supply or cause the production of molecular energy, or cles molecular forces directly applied, as heat, light, galvanism, cleericity; and that, as to the operation of these things, their action is analogous, if not identical, in plants and animals. Are phosphates needed to the whose to the nervous system? So are they required to the standard of the standard of the standard of the tructure; all we get in dict is thus whether the served to plant-life. Even the sulphur in the tissues of animals (as necessary as phosphorus) comes from a noire work in principle laid down, that which restores vital energy will also (as necessary as phosphorus) comes from a prior work in vegetals; and so with inorganic elements, like lime and iron, which, if not got in food or in drink, must be given as medicine, or "chemical food." Should any of you become Officers of Should any of you become Officers of Health, you will feel the necessity of understanding these broad principles of production of vital energy. Not only is the chemistry of food and water of importance, but of the soil on which the food is produced, and from whence it draws these elementary mineral constituents of living tissues. In all these questions the laws of chemical evolution and accumulation of energy are important.

Nor when, in ordinary practice, we direct the diet and regimen and medicine of convalescents, are the facts otherwise. That the mind remains strong and clear when the body decays is a poetic fiction; the brain shares inevitably in general debility. In convalescence from wasting diseases, especially from those during which the phosphates have been carried off without a due replacement, to exercise the brain in thought is without a due replacement, to exercise the brain in thought is not only difficult but dangerous; so that not a few persons perials from too early mental work when convalescent, because the nervous system bracks down under the strain. In respect to tonics, another useful generalisation is evolved—viz, that these chemical products of plant-life known as "bitters," and those chemical products of plant-life known as "bitters," and the convention of the product of plant-life known as bitters, and stimulants, act both upon the nervous system and these and streaming the plant bitter lupuline will induce sleep, and strychnine and brucine tetanus—yetall are tonics; but it is not so commonly understood tetanise—yean are tonics; out it is not seconmonly uncersecon-that colocypth and aloes, quassia and wornwood, emomile and gentian act equally on the nervous system as tonics; so that when the drunkard takes his "pick-ne-up" or a ring" d'absintée he is not taking a harmless "stomachic," but agents which he is not taking a harmless "stomachic," but agents which endanger brain-function if taken in excess. When we come endanger brain-function if taken in excess. When we come to study the psychology of stimulants in summer, you will more fully comprehend the practical value of this fact, and in practice generally it will help you greatly. For example, opium, which, when used in possonous doses, acts on the tissue of plants, nutstit mutualis, as on those of man, may be given as an analysis and tissue, touchies. Hence its value is disas an analeptic and tissue-tonic. Hence its value in dis-eases of tissues, from chilblains to chronic ulcers and Hospital gauge of the succession of the are neurotics to man act on vegetal tissues.

The treatment of diathetic diseases is essentially neurotic, vital, and chemical. Although the nerve-cells and granules evolve vis nervosa specially, all other tissues of the nerves and nerve-centres, in common with like tissues elsewhere, are in relation to both vital energy and vis nervosa. To understand, relation to both vital chergy and vis nervoes. To understant, therefore, practically, the relations of a trophical nervous system to diathetic diseases of tissues, we must take into con-sideration the action of diathetic remedies on both the nervosideration the action of databetic remoties on both the nerve-tissue proper and the tissue generally. Lactic acid, for example, is a chemical product of morbid autrition of muscular tissue; the theory of treatment by potahs alist is chemical-viz, that we nontralise the acid. But, then, these same salts are considered to the constraint of the contralise of the morbid production of the contralise of the contralise of the boundary of the contralise of the boundary of the contralise of the contralise of the contralise of the Test is because of defect in the resolution of the contralise of the Test is because of defect in the resolution of the contralise Is it because of defect in the trophical system? and do opium, actica, quinine, colchicum, and hitters act beneficially in rheuactes, quinine, cotenicum, and interes are because and in matism and gont by acting on that system as neurotics? If so, what becomes of the hypotheses as to the production, metastasis, deposit, and climination of morbid products, which are discussed and acted on therapeutically as undoubted truths?

are discussed and acted on therapeutically as undoubted truths? We shall find on turther inquiry that they are invalid. As a substitution of the control of the practical weight. I have sain the properties of the practical weight. I have sain and the tissues, but you must not infer that marphia or the other alkaloids found in poppy-juice will have the effect of the whole compound of some thirty to forty ingredients. This is as not of mistake too often made in therapeutics. People, for example, proposit of "alcoholic" drinks, generally not noting the great

therapeutical and dietetic difference between the distilled and the fermented as to their mineral constituents, nor in the fermented as to the presence of bitters and as to the kind of bitter used. When we remember that the chemical difference between morphia (as a sedative) and apomorphia (the quickest emetic known) is in an atom of water more or less, we can appreciate how presumptuous all that kind of vague language is. It may be well doubted whether phosphate of lime as a pure chemical compound is at all so efficacious medicinally as when given in flesh or bones or vegetable food. And so with a multitude of agents, whether they be simple or highly complex in composition.

(To be continued.)

ORIGINAL COMMUNICATIONS.

SELECTED CASES OF SEVERE STRICTURE OF THE URETHRA.

By VINCENT JACKSON, Senior Surgeon to the South Staffordshire General Hospital, Wolverhampton.

Stricture of the Urethra of many Years' Duration, Impassable to Instruments of late, complicated with Severe Chronic Cystitis and Distension of the Bladder—Health much Enfeebled—Treatment : Application of Potassa Fusa, afterwards Splitting.

F. W., aged 40, was admitted July 9, 1870, into the Wolverhampton Hospital under my care.

History.—Has been a soldier in the Marines for twenty-one

History.—Has been a solder in the Marines for twenty-one years, but is now discharged, having served his full time. Has been much exposed to cold and wet. Habits temperate. Gonorrhose contracted twenty-two years since, and cleven years after noticed a difficulty in making water, and of such a nature has to compel him to seek relief in the Plymouth Naval Hospital. He says " a passage was made with potassa fusa," and upon his discharge the stream was much calarged, instruments for that purpose having been introduced from time to time afterwards. Remained well for five mouths, and then all the symptoms returned, but greatly aggravated. Was now ordered abroad, and soon after was received into the Hospital at Malta, and catheters were passed at intervals; but before complete dilatation of the stricture was effected his regiment left for another station. Returning to England in 1868, he was again admitted into the Naval Hospital at Plymouth, but an instrument could not be passed, nor has one been attempted since.

Patient is a tall man, very thin and pale-looking, and has a worn, anxious, almost cachectic, look; spirits very much broken. His rest is completely disturbed at night, and his appetite is almost gone by day. Is obliged to wear an urinal to catch the constantly dropping urine; his day and night linen are satu-rated with it, and about him there is a smell of an offensive urinous odour. The bladder is distended half way to the umbilieus; tongue foul; pulse weak. Five and a half inches from the meatus a stricture is scated; at this spot, so tough is the obstacle, that, as the instrument touches it, the contact produces a sound heard and remarked upon by those around the bed, and in the perineum a cord-like feeling is perceived in the situation of the urethra. No soft nor hard instrument of any size would enter the stricture. To remain in bed. Meat diet. Brandy, three ounces. R. Pot. bicarb. gr. xxx., sod. pot. tart. gr. lx., tinct. hyoscyam. mlx., aqua ad 3j., to be taken three times daily. Hip-bath night and morning; afterwards a morphia suppository to be used. A linseed poultice over the

July 11 .- Two pints of urine have dribbled away in the last twenty-four hours : it deposits a large quantity of muco-pasone third.

15th.—Better, and more comfortable. Two pints and a half of urino dribbled away in the last twenty-four hours. At-tempted to introduce a very fine, soft instrument, but unsuc-cessfully. Applied potassa fusa to face of stricture. 16th.—Passed two pints of urino since yesterday; a little soalding complained of as the urino trickles along the urethrm.

18th.—Reapplied potassa fusa, 19th.—No untoward symptom. Urine is now passed much more freely, and the deposit is lessened one-half.

21st.—Urine almost voided in a stream. Reapplied potassa

25th .- No. 3 gum elastic catheter entered stricture, but the

patient resisted all attempts to push it beyond; "the parts in he says.

26th .- For the first time the urine is passed in a continuous

although small, stream.

29th.—Patient much objects to attempts to pass instrument; he says in his weakened condition he feels more. Passed No. 3 soft instrument within stricture, but all attempts to present further were resisted. The urinary stream much improved. and the deposit almost ceased; the urinal in bed is now ... pensed with.

Angust 4.- Under chloroform. Holt's dilator introducti into vesical organ, and stricture split. Bladder evacuated by No. 12 silver catheter; a gum elastic one of the same number was afterwards tied in. A morphis suppository given, and two grains of quinine ordered to be swallowed as soon as possible.

5th .- 11 a.m.: Gam elastic catheter withdrawn.

comfortable, and free from pain.

7th.—Comeal catheter bougie, of No. 12 size, passed, and this instrument directed to be used every third day.

16th .- Discharged cured. Is furnished with a No. 10 soft

catheter, which he is able to pass himself.

The next case I report slightly more in extense, and it deserves it, for in many respects it is of Surgical interest. Clinically, it is a very rare event to drop upon a man 70 years of age, the possessor of an arethral stricture of forty years' duration, and who, during a portion of that time, has suffered extremely from the consequences of prolonged and severe urethead obstruction; and yet he successfully passes through a severe cutting operation for the cure of his malady, and, from the beginning to the end of the treatment of his case, never has an untoward symptom.

Severe Stricture of the Uvethra of Forty Years' Duration, Impassable to Instruments Ten Years-Perineal Abaces-External Urethrotomy-Cured.

E. V., aged 70 years, admitted August, 1870. Resides at E. V. aged to years, admitted August, 1870. Resides at Kingswood, and is employed as a labourer by Lord Wrottesl-y. Is married, and has children and graudchildren. Has always been temperate in his habits. Dates the commencement of been being the state of generation of this urinary difficulty from an attack of genorrhea forty years back. Up to twelve years ago a small-sized silver instrument was occasionally pussed for him by a Medical Practitioner, now dead, but it dead, but it is ten years since an attempt to do so, which failed has been made. The urine dribbles from him, and all his efforts to void it have been made with much straining, and whilst doing so about a month since he felt something give way, and soon afterwards noticed a swelling in his perineum. This has since increased in size, and about a week ago reduces Ams and edema of the scrotum supervened, with great smarting pain, but with no enlargement, each time urine was voided. General health has not suffered much.

When seen by Mr. Jackson, soon after admission, efforts were made to introduce instruments into the bladder, but all were arrested at a point five and three-quarter inches from the

meatus urinarius.

Under the circumstances of the case, it was determined to give the patient chloroform, lay open the perincum, and upon the point of a staff divide the constricted urethra. This was accomplished in the following manner: - After complete anesthesia had been produced, my colleague, Mr. Newnham, introduced into the urethra a full-sized silver catheter, pressing it down upon the face of the stricture. Almost simuling it nown upon the face of the stricture. Almost simul-position, and platent's logs were best up in the libboury position, and platent's logs were best up in the libboury forefinery of my left hand within the restam, and placed it against the apec of the prostate. The perimenum was next penetrated by a scalpol just above the anus, and freely laid open in an upward direction, giving exit to a large quantity of pus and débris. The forefinger, being now withdrawn from the rectum, was introduced into the bottom of the wound, and a search made for the point of the catheter. This having been found, the urethra in front of it was incised. So hard was this almost consolidated portion that its division was audible to the bystanders, each touch of the knife giving forth a sound similar to the notching of gristle; its length was considerable, judging from the time it took to reach the healthy urethra be-Jauging from the time it took to reach the neatiny ureturn op-yond, a flow of uring giving indication that such had been ac-complished. The alit or hole of this portion was then hit by the point of a director, which was pushed into the bladder, and upon it the catheter was guided into the same viscus. A bleeding vessel or two was twisted, and patient removed to bed, a poultice being directed to be applied to the perineum. Milk diet; beef-tea, one pint.

September 8.—No. 8 silver eatheter passed, but with a little difficulty; so it was tied in. Meat diet.

14th.—Not the slightest inconvenience has been complained

of about the catheter; it was withdrawn. Ordered to be passed

daily for the present. Allowed one pint of ale a day. 23rd.—Perineal wound healing fast. One-third of the urine only passes through it now. The catheter (No. 12, silver) to

be passed twice weekly.
October 14.—Urine has ceased to pass by the wound; catheter

to be passed once a week. To get up.

November 1.—Discharged, and requested to attend at the Hospital occasionally to have an instrument passed, as, owing to slight paralysis agitans of both hands, he cannot manage to nse one himself

A VERY RARE FORM OF STRABISMUS AND ASTIGMATISM;

WITH SUCCESSFUL OPERATION AND PERFECT CURE.

By Surgeon PARTRIDGE, Presidency Surgeon, Third District, Bombay.

Cases of pure downward squint are of rare occurrence. I have never met with nor heard of one before. Most authors have never met with nor heard of one before. Most authors either do not mention them at all, or pass them over with but a casual remark. Wharton Jones, says—"The turning up and turning down of the eye appear to be rather examples of lucitate than pure strabismus;" and similarly, Macananara gives it as his opinion that it is "olubetful if this affection ever occurs, unless in connexion with paralysis." In no book do I find any account of an operation to rectify this malposition of the eye. The following case will therefore, I trust, prove of interest :-

Captain E., aged about 45, came under my care in September, 1869, complaining of defective vision, and strabismus. On examination, I found that he only, as a rule, used the right eye, and had acquired a habit of half closing the lids of the left eye, to avoid confusion of images. If the right eye was covered, he could see, though not clearly, with the left. When directed to look at an object distant about twelve inches, with both eyes open, the left eye turned directly downwards, or downwards and very slightly inwards. The right eye being covered, the left immediately came into position, showing a primary deviation of about two lines. The right eye being observed while the left was coming into position, the secondary deviation was seen to be equal to the primary, thus excluding

deviation was seen to be equal to 'the primary, thus excluding the idea of any paralysis of the opposing nuese.

Both eyes being uncovered, and he being told to look with the left eye only, the right eye was turned somewhat upwards. On testing his vision, I found that with the right eye he could read No. 23 smellne, only at ten feet, and that no spherical glass corrected vision, V=½. With the left eye he could read No. 20 only at free feet, V=½; and so opherical glass corrected vision. By means of the stenopaic apparatus, however, I found that in the right eyo he had "simple astignation," being "in eye to be not contained meridian; and that a concave cylindreal exists with its axis horizontal meridian; and that a concave cylindreal exists with its axis horizontal meridian; and that a concave cylindreal exists with its axis horizontal canada thin to read. tropic "in the horizontal meridian; and that a concave cylindrical glass, with its axis horizontal, analyted him to read perfectly at 20 feet. In the left eye he had mixed "astigmatism," being myoric \hat{p}_1 in a direction midway between the vertical and horizontal meridians, while he was "hypermetropic" \hat{p}_1 has direction at right angle to this. A combination of two cylindrical glasses (- 50) in the semi-horizontal direction, and (X 40) in the semi-vertical direction, corrected by

vision up to fourteen feet-a certain amount of amblyopia from forty-five years of disease preventing his reading fluently at twenty feet.

twenty feet.

Taking into consideration that there was no paralysis, that diplopia could be produced by a prism, that vision could be corrected by suitable glasses, I saw no reason why an operation for the cure of the stratory-five period of the parameter of the stratory-five period of the parameter of the stratory-five period of the parameter of the period of the parameter of the period of

no doubt that, when he gets them, he will not only be greatly improved in appearance, but will enjoy good vision.

Hope Hall Hotel, Bombay.

CICATRICES OF THE MEMBRANA TYMPANI.

FROM LECTURES DELIVERED

By Professor ADAM POLITZER. Communicated by Dr. EDWIN MILLINGEN, Assistant to the Otological Clinic, Vienna.

PATHOLOGICAL perforations of the membrana tympani show great diversity of behaviour. Sometimes extensive destruction may be restored by the formation of cicatricial tissue; while in other cases the healing process of small perforations is in other cases the nealing process of small perforations is totally arrested, their margins having been covered over by connective tissue. Cicatrisation of perforations begins by the exudation of plastic elements on their margins, which are by degrees organized. Experience shows how difficult it is to degrees organised. Experience anows now dimensi it is to determine under what conditions perforations are likely to close. Artificial openings in the membrana tympani close almost invariably. The size of pathological perforations is not to be depended upon. The most extensive reorganisation of the membrana tympani that l'olitzer has as yet noticed was in the memorana tympani that I outset has as yet noticed was in the case of a young man who suffered from a discharge in the right ear for five years. A year ago, the only remains of the membrane were seen near the abort process of the malleus. The bare handle of the malleus stood free in the opening, and behind it the dark red mucous membrane of the promontory. Behind and above the processus brevis was seen the articulation connecting the incus and stapes. The hearing was so greatly diminished that the loud tick of a watch was not perceived, when even in contact with the ear. A loud voice was heard at one foot. A few weeks ago Politzer found the membrane restored, with the exception of a small oval opening below the end of the manubrium mallei.

The healing process of perforations begins by the exudation of greyish yellow plasma on the margins of the opening. As this plasma is being organised into cicatricial tissue, the opening diminishes gradually in size until it is obliterated, generally leaving a thin cicatrix which is sunken in and possesses a bright spot at its deepest part. Its borders are very sharply marked.

The structure of such cicatrices varies. They either consist of real fibrous tissue or of a membrane void of structure, but covered on both sides by pavement epithelium. The elastic fibres of the substantia proprid of the membrana tympani are either altogether absent in the cicatricial tiasue, or project here either altogether absent in the cicatricial tiasus, or project here and there into its periphery. Not seldom does one meet with new vessels winding into the outer layers of the tissue, which are to all appearance of a venous nature. The functional disorder caused by a cicatrix of the membrane does not stand in any relation to its size. It has been notified that large cicatrices occupying two-thirds of the membrane have caused very little trouble, while smaller ones have been accompanied by severe deafness. This of course depends on the accompaning changes on the articulation of the ossicula, the products of the primary disease.

Cases have, however, been noticed in which the cicatrix is the direct cause of deafness. This depends on the elasticity and consistency of the cicatricial tissue. A thin and relaxed cicatrix is more likely to interfere with the movements of the membrana tympani or change the tension of the ossicula, in consequence

of its incapability of resisting the pressure of the outer air.

Deafness is much more serious when a cicatrix is so far sunken in that it comes into contact with the promontory. The vibrations of the membrane are thus considerably hindered, although the cicatrix is not adherent to the promontory. This plaint is greatly ameliorated by inflating air into the tympanum, plaint is greatly amenorased by innating art into the tympanian, and thus pushing the cicatrix away; the deafness returns again as soon as the air in the tympanian has been absorbed and the cicatrix resumed its former position. If in such cases it has been confirmed by means of the catheter that no catarrhal thickening or secretion is present, the relapse of deafness may be attributed to the cicatrix itself.

In a previous work Politzer reported a number of cases in which repture of this cicatrices followed the use of the eatheter and his method. In most of these and similar ones observed by Tagenstecher, Schwartze, and Schurg, astonish-ing and permanent aneitoration was the immediate result, although the treatment previous to the rupture was followed by very slight benefit. Politzer assumes that such durable amelioration is brought on by a change effected in the texture of the cicatrix. A slight degree of inflammation having been brought

on by the the rupture, the tissue is endowed with greater power of resistance. Hence the abnormal tension of the membrana tympani and ossicula is diminished, and the transmitting apparatus is enabled to perform its functions with greater regularity. Guided by such experience, Politzer determined to bring on a slight inflammation in cicatrices by making incisions into the tissue, restricting himself only to cases in which the repeated relapse of deafness was caused by the relaxed state of the cicatricial tissue.

An incision should be made in the deepest part of the cicatrix. An ordinary paracentesis needle is very well suited for the purpose. Air should be inflated into the tympanum for the purpose. Air should be infrated into the typipasaute after the operation, in order to convince the operator of his success. When the deatrix has been pierced, the air should stream out into the meatus. This operation has never, as yet, been followed by inflammation or suppuration; the borders of the wound generally close on the next or third day after the operation, and the cicatrix is less sunken in. Inflation should not be practised before the third day, and then a weak stream should be used. This may be done by blowing in at the mouth instead of by the air-bag. It has also been noticed that one operation is not sufficient sometimes to secure permanent benefit. It is then necessary to repeat the operation on dif-ferent points of the cicatrix, at intervals of two and three days. In recommending this operation, Politzer remarks that the excision of a portion of a cicatrix is attended with danger of

supportation.

Taking into consideration the fact that improvement in hearing, following repeated incisions into a cicatrix, can only be attributed to the consequent retraction and thickening of the tissue, it may be assumed that the same change may be brought on in the relaxed tissue of membrans tympani. This treatment, adopted for long-standing obstruction of the Eustachian tube, has been followed by very good results, especially in cases in which the membrana tympani was relaxed, thin, and sunken inwards.

The absorption of serons exudation in the tympanum is greatly facilitated by inflating air into the cavity. Such a rush of air has been considered to act mechanically in expelling the serosity upwards into the mastoid cells, or backwards into the serosity upwards into the mastoid cells, or backwards into the pharynx. It has been, however, experimentally proved that this is not the case, a very slight movement being only per-ceptible during such an operation. The improvement in hear-ing following inflation may be attributed to the momentary re-establishment of the equilibrium between the air within the re-establishmen or the equinorum powers the assume active and the outer air, and hence, to the replacement of the carify and the outer air, and hence, to the replacement of the fluid may be expelled by a rush of air, but in most cases the secretion is stringy and thick. Whenever the hearing is restored or ameliorated by repeated inflation, the deafness is produced by another cause. When the mucous membrane liping the tympanic cavity is inflamed or hypercemic, the Eastachian tube is also affected and almost always impervious, in consequence of which the air in the tympanum is absorbed. "This vacuum produces pressure on the capillaries of the mucous membrane, and the secretion is thus maintained. Foreing air into the tympanum is the direct means of removing the vacuum, or, in other words, restoring the normal circulation in the blood ressels and lymphatics, and favouring the absorption of the secre-

Hence, many cases require no other treatment than inflation of air. In inflating air into the tympanum, in such cases, Politzer advises the patient to lean his head forwards and sidewards, so as to give the Eustachian tube a vertical direction, and make it more possible for the fluid to escape into the pharynx. When the amelioration is of very short duration, without any decided benefit following the mere use of the air-bag, the exudation is thick, and it is necessary to puncture the membrana tympani. The use of the catheter is never indicated in such cases, and experience has even shown that it may prove injurious. The operation for puncturing the membrana tympani is thus made:—The head having been fixed, a short and broad specumade:—Ine nead having been fixed, a short and broad speculum is to be introduced into the meature. A reflector adapted for being attached to the feedbased is be small of the property of the instrument. The best place to puncture the membrane is at its inferior and posterior part, a cut of two lines in length

(a) Wochenblatt der Ges. der Aerzte. November 17, 1869, No. 46, Politzer,

being sufficient. The paraceutesis needle is an instrument consisting of a needle about two and a half inches in length, best at right angles to its handle, and ending in a triangular two-oleged point. Immediately after the incision has been made, air should be forced into the tympanum with Politzer's air-bag, so at ox-put the servoity into the meaturs. Inflation should be repeated several times, until all the serum has been explicit. This should be removed from the meatur with small cutton balls, held at the end of a forcept. In case the following procedure may be resorted to—An oto-copy in pushed into the meaturs; at the other extremity of the tabe an empty syringe is to be introduced, and the piston drawn out by degrees. The fluid is thus easily sucked out if this simple apparatus is air-fight.

The results of Profesor Politzer's experience in such cases show that one-third were cured by one operation. Among these he numbers cases in which the affection dated several months. In others it was necessary to confine the treatment with the use of the air-bag for several weeks before a perfect cure was effected. At other times it was noticed that the exundation was still in active process, and there it was necessary to purcture the nembrana tympan three, four, and even five purcture the nembrana tympan three, four, and even five on thickening of the mucous membrane and consequent rigidity of the articulations, are those which admit of little or no amolt-

oration.

ON THE ACTION OF QUININE IN MALARIA. By GOPAUL CHUNDER ROY, F.R.C.S.

With all the present researches of modern Medicine, the with an are present researches or moment accurate, me action of quinine on malarious fevers still remains an enigma to solve. The same empiricism which at first introduced this valuable medicine in practice, still guides us in its adminis-tration with a blind acknowledgment of its remedial powers. It would well repay our trouble, therefore, to discuss the subject -How does this medicine influence our system? To enable us to enter into the question, we must understand at first the effect of malaria on our constitutions. This subtle poison, the mode of origin of which has yet to be fully ascertained, manifests itself in certain symptoms which primarily cause derangement of the organic functions of life. The stage of incubation in which the general malaise, lauguer, chilliness, and altered secretions are the marked features of complaint, together with the symptoms of actual invasion of the disease, in which the phenomena of the cold and hot stages are promiwhich the phenomena of the cord and not stages are promi-nently marked, clearly demonstrates that the force of the poison is spent on the ganglionic system of nerves. The circulatory apparatus of our organisation is under the direct control of the sympathetic nervous centres, and we can easily understand how any influence exerted over the latter would alter or modify its governing power. Hence, also, the tendency to rapid death by asthenia when the action of the poison is concentrated, as is observed in the fresh outbreak of an epidemic, or the frequency of inflammations of different organs, as hepatitis, splenitis, meningitis, or dysentery occurring as local manifestations of perverted nutrition of our tissues. the poison falls short in its virulence, changes less destructive in their nature are observed. The gradation from inflammation to hypertrophy can be traced in such instances in the ention to hypertrophy can be traced in such instances in the enlarged agrae exche colphanisas of scrotum of leg and of legal of the collection of the collecti economy.

To sum up, then; the effect of undaria is directed on the gauglionic entres of our system, altering their functions in such a way as to modify the circulation and secretion of our body, to paralyse the bloodycesels, and to lead to death, inflammation, or hypertrophy. In short, it acts as a sedative to the sympathetic nervous centre.

Quinine is admirably adapted as a nervine tonic to the orgame system, to counteract its morbil influence. It promotes digestion and secretion, and gives tone to the heart. Under its use the pulse improves in strength and volume. In heatapplexy, with punzaency of skin, its exhibition reduces the temperature by obvisting the paralytic condition of the bloodvessels. In intermittent fever, given before the expected

paroxysm, it cuts short the attack by remodying that condition which produces the flush in the bloodvessels and giving them tone. A large does act just in the same way as smaller does, but more quickly and energetically, and insamed as the materation of the poison shows itself in a sudden outborst of symptoms, it stands to reason that a large does acts more quickly and with greater certainty. This will capilain the unknown therapeutica timo of quinine, which ask to be acribed formerly to "shock." It has no peculiar wirtue in neutralising the poison of malaria, and, given with a belief to destroy it smitcherious effect in our system, it often fails in attaining the end. It same can be actualed to other diseases where the same spective of malarious origin. In all fevers, idiopathic or Surgical, it is an invaluable renelly, but when the altered circulation leads to inflammation of an organ or some morbid change, as in dysentery or meningitis, I hold its use to be at best doubtful. Glasgow.

REPORTS OF HOSPITAL PRACTICE

174

MEDICINE AND SURGERY.

THE HOSPITAL FOR WOMEN, SOHO-SQUARE.

OPERATIONS.

Paracentesis for Suspected Ovarian Disease (by Dr. Meadows)— Colotomy and Operation for Facol Fistula (by Mr. C. Heath)— Removal of Uterine Polypue, and Removal of Vascular Tumour of Urethra (by Mr. Soott).

On Saturday, February 4, some interesting cases were brought into the operating-room of this Hospital. The first was a most instructive case, under the care of Dr. Meadows, in which the difficulties occasionally attending the diagnosis of a case of suspected ovarian dropsy were prominently brought forward. The patient was a young woman, and when placed on the table, the abdomen had precisely the form characteristic of ovarian disease. She seemed in fair condition, and the history appeared to indicate clearly the nature of the complaint. Dr. Meadows, in his remarks upon the case, said that it was of extreme interest in relation to the diagnosis of ovarian tumours. The woman was aged 24, had borne four children, the last The woman was aged 24, had borne four children, the last cight months pgo, and since that time she noticed that she never regained her proper size. She first came under observa-nce of ordinary assistes. He was struck, however, by the shape of her belly, and on examination found that it was absolutely dull in front, but resonant in the flanks. Two weeks later the swelling had greatly increased, and during the past week the girth of the abdomen had increased by three or four inches, so that if a cyst were present it had filled very rapidly, and some further donbt was thrown on the diagnosis. A consultation was held, and although some difference of opinion was expressed, the pretty nnanimous conclusion arrived at was that the disease was ovarian dropsy, the points relied on being the general dulness with resonance in the flanks, the regular the general numes with resonance in the manns, the regular ovarian shape of the abdomen, and the absence of any distinct condition which could give rise to ascites. Under these circumstances, Dr. Meadows resolved to extirpate the ovary, but on the patient being placed on the table he comovary, out on the patient being piaced on toe table he com-menced by making with a sealped a cautiously small incision in the middle line, below the umbilitieus. A jet of clear fluid issued, and on the opening being slightly emlarged, a free stream flowed out, and was guided into a vessel beneath the table. When a considerable quantity had escaped in this way, Dr. Meadows carefully explored with his finger, and for some time was, even then, uncertain whether a cyst existed or not. Finally, however, it became evident that the condition was one of ordinary ascites, in which the intestines were tied down to the flanks by old adhesions. The opening was then carefully sewn up again, and the woman returned to bed.

Mr. Christopher Heath next performed colotomy for malignant

Mr. Christopher Heath nextperformed colorony for mangnamic disease of the rectum. While the patient was being brought under the influence of chloroform, Mr. Heath explained that the patient had only on the night before come into the Hospital. There had been a scirrhous condition of the rectum for a long time, the disease being situated three inches from the anus, and being attended by the usual symptoms of painful defercation, and occasional losses of blood. Mr. Heath had long since advised colotomy, but the patient refused, and it was only two days ago, when, absolute obstruction having been present for a week, stercorsceaucy rounting had already set in, that Mr. Heath was sent for, and the work of the control of th woman summed to the operation. Mr. Read received to a similar operation performed by him on the previous Saturday, in which, however, the conditions were more pleasant, as the state of the lower bowel rendered it possible to distend the colon with water, and so render it easily and cleanly reached. Here, probably, also, the bowel would be distended, but with faces, which would make the operation of a more disgusting character. Before making his incision, Mr. Heath marked with ink, on the left loin, a vertical line, half an inch behind the midpoint of the crest of the ilium, which, he said, was an infallible guide to the colon. He then dissected straight down on this line, at once exposed the distended colon, and, before opening it, passed two sutures through the bowel and skin, keeping them loose, but attached on either side to the edge of the wound. Then, the gut being drawn up and opened, the middle of each thread was pulled up, cut, and the opened bowel at once stitched to the lips of the wound without further trouble. There was an immediate escape of faces, and as this trouble. There was an immediate seeape of facces, and as this subsided, a quantity of pulled oakum was packed over the wound, and the patient returned to bed. By this method of procedure, the operation was conducted with a precision, rapidity, and cleanlines which we have not before witnessed. Mr. Heath also applied the actual cantery to the jips of afread-fatula in the abdomen; but as this case will come before the Profession in detail on another occasion, we forbear entering

upon it here.

upon it here.

The other two operations were by Mr. Scott. The first was the removal of a polypus from the nterns with long curred exissors, bleeding being checked by plugs of wool on long strings, soaked in solution of perchloride of iron; and in the second a vascular tumour of the urchira was supped away, and the fresh surface freely cauterised. Neither of these cases presented marks of special interest.

RADCLIFFE INFIRMARY, OXFORD.

UNILATERAL ANÆSTHESLÆ, WITHOUT IMPAIR-MENT OF MOTOR POWER, OCCURRING SUD-DENLY IN THE SUBJECT OF HEART DISEASE. (Under the care of Dr. GRAY.)

THE following rare form of nerve-lesion came under Dr. Gray's

notice early in January, in the person of an out-patient (W. B.,

aged 62), who gave the following history :-Ten weeks previously, while stooping to pick up a piece of wood, he suddenly experienced a painful tingling sensation in the right hand, foot, and side of face. In the face the smarting was so severe that he thought he must have been stung by a bee. On drawing his hand across his face to wipe away tho supposed bee, he found, to his surprise, that over the right half of his face, exactly up to the middle line of nose, lips, and chin, the skin was insensible to the touch. There was no headache or other cerebral symptom. After a few hours the foot quite recovered. At the end of two or three days the right hand and check ceased to tingle and smart, but did not regain their sensibility, and have not done so since. From the first there

On the occasion of his last visit (February 11), his condition was noted as follows:-The palm and dorsum of right hand have their natural feeling, but, from the root of each finger to have their natural feeling, but, from the root of each finger to its tip, ordinary tactile sensibility is leat. A prick or pinch is felt, not as such, but as a scald. Their sensitiveness to heat or cold is exaggerated. Their describe-ensibility not tested. He could be exaggerated. Their describes a scale of the not use it for any delicate operation. Thus, in pioking up a not use it for any delicate operation. Thus, in pioking up a pencil off the table, the fingers faurble clumally, and have to be guided by his eyes. (There is permanent contraction and rigidity of the palmar portion of the tendon of the middle finger: but he says this has existed for years, and attributes it to be former trade—showning.)

Precisely the same phenomena of impaired and perverted sensation exist on the right side of the face, within the following limits—viz., forwards, as far as mesial line of nose, lips, and chin; upwards, along the lower and (in less marked degree) upper cyclid and mid-temple; backwards, to the anterior edge of the ear; and below, to about the lower edge of the ramus of the jaw. Beyond these limits -i.e., over fore-

head, scalp, ear, back and side of neck, sensibility is normal. The right conjunctiva also is normally sensitive.

In the right half of the cavity of the mouth, common sensibility, and in the corresponding half of the tongue, both it and the sense of taste, are almost wholly lost. During meals, from his not feeling the food between the tongue and the right cheek, a little food and drink often escape out of that corner of the mouth. Sight and hearing on the right side are unim-paired. It is doubtful whether the sense of smell is as acute in the right nostril as in the left. Speech and deglutition are normal. He has full control over all the facial muscles, and perfect symmetry exists between the two sides of the face, whether its muscles are still or in action.

He is a strongly-built, healthy-looking labouring man, and declares he never had a day's illness in his life. No trace or history of gout, rhoumatism, or syphilis; no dropsy; no albu-men in urino. Ho owns, however, to vory slight habitual cough, and (for an uncertain time past) to some little shortness of breath on unusual exertion. Auscultation reveals considerable hypertrophy of heart, with disease both of sortic and mitral valves; and it is conjectured that embolism may very possibly account for the loss of function which has occurred in certain sensory ganglia.

ST. BARTHOLOMEW'S HOSPITAL, CHATHAM.

TETANUS TREATED WITH CHLORAL-DEATH.

(Under the care of Mr. NANKIVELL.)

J. W., aged 5, was admitted April 21, 1870, having fallen, twelve days previous to admission, and slightly cut his left wrist. Six days after the accident, patient's father noticed that the wounded wrist was bent, and the fingers flexed and drawn into the palm of the hand; and six days later, when ho was admitted into the Hospital, it was found that the original wound was quite healed, and that the fingers and wrist were wound was quite neated, and that the ingers and wrist were completely flexed. On applying force, they could be extended; that on removing it, they returned to the flexed position. In every other respect the boy seemed in perfect health. An in-cision was made into the cicatrised wound, allowing a few drops of pus to escape, and ho was ordered a calomel and jalap powder at once, and chloral gr. iij. ter die. In the evening, patient was reported to have slept well after the chloral, and he seemed comfortable.

April 22.—Slept well all night; no general spasm; but when the injured wrist is touched a quiver runs through the body.

23rd.—Stept all night; was asleep at the morning visit. On extending the wrist to-day, he had a violent spasm, which nearly threw him out of bed. He sleeps soundly for several hours after each dose of chloral. His limbs twitch when asleep. 24th.—Had an attack of opisthotonos when washed; slept

well during the night. At 9 p.m. had a violent spasm. Ordered to have a dose of chloral at once.

25th.—Slept well; trismus well marked; deglutition difficult.
26th.—Died to-day. Spasms have increased in severity, notwithstanding that the chloral has been increased in quantity. TRISMUS FOLLOWING AMPUTATION OF FINGER

FOR BITE OF A DONKEY - TREATED WITH CHLORAL-RECOVERY.

(Under the care of Mr. NANKIVELL.) J. B., aged 14, was admitted September 16, 1870. A week previous to admission, patient's left little finger was amputated, having been severely bitten by a donkey. He was also hitten in the left thigh. Three days later he complained of hitten in the left thigh. Three days later he complained of stiffness of the neck, and inability to open his mouth. A week after the accident he was sent to the Hospital, the Surgeon

who had charge of him being taken ill. On admission, the stump of the finger was all but healed. the wound of the thigh was covered with a scab; the teeth could only be separated for half an inch, and the neck was stiff.

The risus sardonicus was well marked; had had no general spasm; had no difficulty in swallowing. Ordered a purgative

powder, and chloral gr. x. ter die. September 7.—Sleeps almost constantly from the chloral.

Symptoms much the same.

Symptoms much the same.

9th.—Has had some difficulty in swallowing; but the mouth can be opened somewhat more freely. This evening when asleep he had an attack of opisthotonos. Chloral increased to

14th.-Has had occasional spasm when asleep, up to two

nights ago : since then none have been observed. His mouth can now be opened freely.

an now be opened freely.

21st.—Appears quite well; to get up.

He left the Hospital cured September 28.

Remarks by Mr. Nankivell.—Chloral produced in these cases its customary effect—viz., prolonged sleep—but did not seem to have much effect over the disease itself, for when the nationts were fully under its influence, the spasms, especially in the first case, did not cease. In the second case the spasms were comparatively of a much lighter character; but I do not think that this can be wholly attributable to the chloral, but rather to the slighter nature of the case. With regard to the first case, it may perlaps be thought that the dose was small, but as the child after each dose slept for several hours profoundly, it was not deemed necessary to increase the quantity materially.

EXTENSIVE WOUNDS OF THE LUNG, WITHOUT WOUND OF THE COSTAL PLEURA.

(Under the care of Mr. NANKIVELL.)

J. C., aged 3, admitted August 31, 1870. Patient, when running across the street, fell in front of a loaded four-wheeled waggon, two wheels of which passed over his chest. He was brought to the Hospital immediately. On admission, the child was in a state of collapse, and he died in three-quarters of an hour

Post-mortem .- Twenty-two hours after death. On external examination no injury could be detected. The left pleura was about half full of fluid blood. There was an ecchymosis under the left costal pleura, near the middle line of the axilla, over the sixth and seventh ribs, which were found to be fractured without displacement. There was no wound of the costal pleura anywhere. The left lung was collapsed, and had two extensive ruptures nearly across it from without, inwards, and through its whole thickness. All the other organs were healthy.

Remarks.-The interest of this case lies in the extensive wounds of the lung and pulmonary pleura without any wound of the costal pleura. It appears to me improbable that the broken ribs could cause such extensive wounds without the costal plears being injured. I am, therefore, inclined to think that the weight of the waggon drove the very elastic ribs of so young a child on to a distended lung, pressed it suddenly backwards against the spine, and so caused its rupture.

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Medical Times and Gazette.

SATURDAY, MARCH 4, 1871.

THE SMALL-POX EPIDEMIC.

Aoam the Registrar-General tells us of an increase in the mortality from small-pox. The fatal cases in London, which in the four previous weeks had been 157, 196, 211, and 218, further increased to 227 last week. In nine permanent and temporary Hospitals for this disease forty-four deaths were recorded. This number is less than one-fifth of all the deaths that occurred. The fact is significant, inasmuch as it shows how far the Hospital accommodation provided by the Asylum

Board and local authorities (considerable as it is) is from meeting the present requirements of the metropolis. Of course it may be said that many of these-the deaths over and above the forty-four-occurred in private families which are not dependent upon public aid for Medical care; and to some extent this is true, but not to the extent of accounting for the treatment at home of four-fifths of the cases which were so severe as to be absolutely fatal. The fact is quite in accord with the returns of the health officers, so far as they have been obtainable. Only a small proportion even of the cases in public practice were last week removed to a special Hospital. Out of 217 cases newly occurring in fourteen districts, only 80 were removed to Hospital, while 137, or 63 per cent., were being treated at their own homes, to the imminent danger of other residents in the houses they occupy, and to the whole neighbourhood. This certainly is not as it ought to be. If the law is not strong enough to require that persons who seek public aid in such a contagious disease as small-pox at the expense of the community, shall submit to be treated where they shall not endanger the public, on whom they are dependent, and to be so dealt with as to be prevented from adding fresh burthens by spreading the disease to others, the sooner it is made strong enough the better. Parliament is sitting, and Mr. Goschen would, we imagine, have little difficulty in obtaining powers of compulsory removal of patients thus circumstanced. If the Hospital accommodation is insufficient—as it undoubtedly is -why are not temporary buildings erected in the parks and other open spaces around London, sufficient in number and size to receive all the cases that could be sent to them from their vicinity? The present emergency is one which should be dealt with much more firmly than at present, and with a high hand. Public safety is the primary consideration; private sentiment, which, of course, deserves respect when we can afford to regard it, must give way when it clashes with it. No consideration of expense should stand in the way of establishing local temporary Hospitals. A liberal outlay of money in this direction will be the truest economy. Anyhow, the epidemic will be a costly one for the metropolitan ratepayers; but if they will have such luxuries, they must be content to pay for them. No one can doubt that the epidemic would never have reached its present proportions had sufficient encouragement been given to infant vaccination, and especially had guardian boards not absolutely discouraged the practice of revaccination of the lower classes by the public vaccinators. In fact, sanitary anthorities and guardian boards alike have been all along, for years past, asking themselves, not how most effectually to carry out the powers conferred upon them for public sanitation, but how little they could do in this way without appearing to do nothing -above all, how little money they could expend in those public measures which the Legislature, following the indications of Medical science and common sense, has directed for the prevention of disease. But the money must be paid notwithstanding. Let us hope that the lesson now being taught will not be immediately forgotten.

Distributing the deaths in Hospitals to the several districts from which the patients came, it appears that they stand in the following order:-The East group of districts furnished 75 fatal cases; the South, 59; the North, 45; the West. 28; and the Central, 20. The fatal cases thus show a decline in the West and North Districts, while they had considerably increased in the East and South. If we assume as the fatality of the epidemic at the present time a death-rate of 17 per cent. (that of the Hampstead Hospital), the 227 deaths last week in London will represent no fewer than 1335 fresh cases of the disease.

But, badly as we are suffering here in London, Liverpool is much worse off-since, while London, with its population of three and a quarter millions (1861), had 227 deaths, Liverpool, with a population of little more than half a million, had a small-pox mortality last week of 129. The Registrar-General puts it thus :- "The annual death-rate from small-pox last week was equal to 3.6 per 1000 in London, while it was 12.9 in Liverpool.

THE HAMPSTEAD HOSPITAL.

The Small-pox Hospital at Hampstead was the first that was provided by the Managers of the Metropolitan Asylum District. It is a model for imitation, not only being admirably adapted for the purpose of providing accommodation for poor people during an outbreak of contagious disease, but also because the plan upon which it is erected is adapted to meet the emergency of a rapidly spreading epidemic. It commends itself to our approval, partly because of its proved capability of rapid extension, partly on the ground of its simplicity, and mainly on the ground of its complete efficiency. As the epidemic has spread, and as the demand for Hospital wards has arisen, so the accommodation has been supplied-the Hospital growing with the epidemic, until the space of land allotted to it has placed a limit to further enlargement. Briefly, it consists of a series of temporary iron pavilions, connected by a long corridor, from which they pass off at intervals.

In the first place, the site is well chosen. It is a field of about eight acres, on the eastern slope of Haverstock-hill, a little to the south of the village of Hampstead. On passing out of the Hampstead station of the North London Railway, and turning to the left, the tops of the pavilions are seen, the side of the hill looking like a small village or town of iron huts. Down this slope, from west to east, runs the corridor, to the distance of an eighth of a mile. On the south side are the pavilion wards, each separated from the other by a space of forty feet; while on the north side of the corridor, and in a short transept about halfway down, are erected the receiving wards and all the buildings required for the administration. The site is approached by a short road, turning off eastward from the main road to Hampstead, at the side of the George Inn, and between this and the new church. The carriage road passes along the north side of the buildings, and the remaining space is now in course of being laid out as a garden and lawn. It was on November 19 that the managers first determined to provide a small-pox Hospital here. They were probably influenced in the selection of this spot by the fact that there were already standing there at the top of the slope three pavilions, with the necessary offices, that had been used in the winter of 1869-70 as a temporary fever Hospital during the prevalence of relapsing fever. These three pavilions were opened as a small-pox Hospital on December 1. Dr. Robert Grieve was appointed as the Medical officer, at a salary of £30 per month, and the domestic management and nursing were placed in the hands of three of the East Grinstead Sisterhood, one of these ladies being appointed as matron, while the other two undertook the superintendence, the one of the day, the other of the night nursing. This commencement was calculated to provide for 130 patients; but, as these wards were rapidly filled and many applicants had to be refused admission for want of space, it was determined to add to the existing buildings the iron pavilion which had been in use the previous winter at the London Fever Hospital. This was, therefore, obtained and removed to Hampstead, the corridor and administrative buildings were extended to correspond, and it was opened for patients on January 5. With this addition, the Hospital was made to accommodate 200 patients, the new ward being appropriated to women and children, and the three old wards to male patients. At the same time, it was found necessary to appoint an assistant Medical officer, at a salary of £12 per month. Since then a second assistant has been appointed. On January 12 it was determined to add four new pavilions, and on the 21st the order was extended to as many as the ground at the disposal of the Board would admit of being erected on the site. The first of these new pavilions was opened on February 2, and

the fifth of them on February 23-the day before our visit. A sixth-the last-was nearly ready, and was to have been opened on the 25th.

The three old wards and the six new ones are all single pavilions, of the same size, and agreeing, for the most part, in their arrangements. Each is 160 feet long by 23 feet wide, rising about 12 feet to the spring of the roof, the centre of which is about 6 feet higher. Where these single pavilions are occupied by acute adult cases, the full complement is thirty-four, which allows 1600 cubic feet of space to each bed. The wards are lighted by long, wide windows at the sides, with an interval of 6 feet between them, this interval being occupied by a bed-seventeen beds being thus ranged along each side between the windows. There is also one large window at the southern extremity of the ward. The ventilation is provided for by a swing sash at the upper and lower part of each window, and also by ventilating openings near the floor, protected by wire gauge, and capable of being closed by a flap. In two of the old wards, the opening of the upper part of the windows is interfered with by some ventilating tubes, which would be better away. In the others, there are, in addition, some lowers introduced into the roof, which can, if it be desirable, be closed by means of flaps. The warming is effected by means of six open fire-places, placed in pairs, back to back, along the centre of the ward at equal distances. As each pavilion ward is entered from the corridor, there is an apartment on either side-one is a kitchen or scullery, with sink and water supply; the other is the bath-room or lavatory. The closets are built out from the west side of each ward, and are separately ventilated. The pavilion moved to this site from the Fever Hospital is not constructed upon so good a principle as the original and the newly erected wards. It is a broad double pavilion, with a screen or partition running down the centre, so as to form two wards, the atmospheres of which communicate above the screen. It is both darker and less satisfactorily ventilated than the other wards. It was the only part of the building in which the air smelt close. In none of the other wards was any odour perceptible; the air was perfeetly fresh and sweet. The iron bedsteads are provided with sacking; the beds and pillows are of feathers. Opposite the entrance to each pavilion, on the other side of the corridor, is a door opening upon the coal cellar appropriated for that particular ward. This is filled from the outside. The male and female receiving wards (each provided with a bath), in which the patients on admission put off their clothes, are situated on the north side of the corridor, in proximity to the male and female wards respectively. The sleeping apartments of the nurses and attendants, their dining-rooms, and offices are also on the north side of the corridor. Both at the male and female part of the building there is a small ward set apart for the accommodation of patients who may chance to be brought in suffering from some other disease than small-pox. In one of these we saw a girl ill with scarlatina. The apartments of the matron and sisters, and the store-rooms, are situated in a transept crossing the corridor between the old and newly-creeted pavilions. The kitchen and laundry are erected on the south side of the corridor, between the fifth and sixth pavilions.

The distribution of the patients is effected thus :- The first three pavilions are devoted to females; the first and second, containing 34 beds each, to women in the acute stage, and the third to convalescent females, of whom 46 are placed in the ward. With this number of beds, about 1200 cubic feet of space are allotted to each convalescent. The double pavilion is judiciously devoted to convalescent males, the two wards which it constitutes accommodating 88 patients, each of whom has thus over 1000 cubic feet of space allotted to him. At the time of our visit there were three of the new pavilions, with 34 beds each, occupied by male patients in the acute stage, and there were a few male patients in a fourth. Ward No. 7-that is, the second of the newly-erected single pavilions-was a children's ward, the girls being at one end, and the boys at the other; acute cases and convaluements not being separated skity-four children are received into this ward, 32 cots, each 5 feet by 2 feet, being arranged at equal distances along the two sides. It was at first expected that women and children would constitute the largest part of the admissions, but it was soon discovered that the greatest amount of accommodation would be required for adult males. Out of the whole eleven wards, it has been found sufficient to devote four to the use of women and children.

Three nurses (two day and one night) are told off to each ward except the convalescent wards, where the inmates are expected in a great measure to help themselves and one enother. There are three day nurses and one night nurse for the children's ward. The convalescents, as they recover strength, are employed in light duties about the establishment; the women to assist in sursing, and the men in such work as scrubbing and light porterage, for which they get some extra diet. It is said that the ohldren have proved very tractable, and that even at 2 or 3 years old they have been easily managed without their mothers. Only on eight or mine occasions has it been necessary to take the mothers in. They have only been admitted when their infants were being suckled.

Dr. Grieve has established the rule of keeping every case admitted for a minimum period of three weeks. This would be the minimum duration of residence of the mildest vaccinated cases. The severer unvaccinated cases remain in the Hospital for periods varying from four to six weeks. During this time they have clothing provided for them by the Hospital. The clothes they bring with them are retained and disinfected. For the purpose of disinfection a brick chamber has been built, traversed several times by the iron fine of a furnace. The selfregistering thermometer, which was hanging in the chamber, marked 250° Fahr. The vapour of earbolic acid is diffused h re, and the clothes, being placed upon racks and hooks, are baked for about twelve hours, after which they are deposited in a shed open to the air on all sides by means of lowere boards, where they undergo aëration until the patient receives them again on leaving the Hospital. During convalescence each patient has a bath with carbolic soap three days in the week-so that when he leaves the Hospital both bis person and his clothing may be regarded as having been submitted to a process of disinfection. For any disinfecting purpose, for a rubbing the floors, etc., the chemical disinfectant preferred is the carbolic acid. In consequence of the popular alarm, the managers are about to provide a carriage for the conveyance of recovered patients to their homes.

The perfect manner in which this Hospital has been worked, under the disadvantages incident to its rapid extension, and the necessity of adapting its resources to a constant increase i : the number of its inmates, is highly creditable to the superintending Medical officer, Dr. Grieve, and to the Sisters who have charge of the domestic and nursing arrangements. The task laid upon them all has been no easy one; and the amount of careful thought, energy, and watchfulness to keep every department in efficient order must have been very considerable. Twelve days sufficed to organise the staff and all the arrangements, from the time when the order was given to the day when the Hospital was first opened; and between December 1, 1870, and February 25, 1871, seven additional pavilions were erected and opened, the work going on in each in succession as regularly as if it had been contemplated at the very commencement. We learn from Dr. Grieve's reports to the managers that, between December 1, 1870, and February 4. 1871, 582 cases were admitted from all parts of London; and although it is true that other cases were received into the Highgate Hospital and iuto some small local Hospitals provided by the guardians in some of the parishes, the statement of the parishes from which those admitted at Hampstead were received affords a fair index of the comparative prevalence of the epidemic in each. We submit, therefore, the following table, constructed from the reports of Dr. Grieve in such a manner as to show the fortnightly variations in each parish and union up to about the time of the opening of the Homerton and Stockwell Houritals:—

				Fo	rinig	ht en	ding	1
				Dec. 1 to Dec. 16.	Jan. 7.	Jan. 30.	Feb. 8.	Total,
St. Leonard's, Shereditch				25	30	19	16	90
St. George's Union .				19	9	16	1 7	51
St. Matthew, Bethnal-gre	en			14	23	16	13	
Holborn				9	16	23	24	72
City of London		- :		7	1	1	2	111
St. George's-in-the-East			- 1	777	1	-	-	8
Mile-end Old Town .	Ċ			7	5	5	-	17
Stepney				6	10	2	2	20
Poplar				6	_	-	-	
St. Mary, Lambeth .	÷			5	1	1	1 -	6
Camberwell , .				4	ı	1	-	
Whitechapel				1	1	1 2	2	9
St. Savionr's	:			4	10	9	4	27
Fulham				4	2		1 -	6
Strand				4		1	8	13
Hackney				4	2	2	1 2	10
Westminster				3	2	10	10	25
Kensington	÷			3		2	2	1 7
Wandsworth				2	3			5
Lewisham				1	2	2	1	6
St. Luke's, Chelsen .				1	3	9	-	13
St. Olave's				1	_	1	1	2
Greenwich				1		5	1	4
St. John, Hampstead				-	- 4		2	11
St. Marylebone					4	8	20	
St. Mary, Islington .				-	3	9	7	19
St. Pancras					4	9	19	32
Limehouse				-	-	1	-	1
St. Giles-in-the-Fields				- 1	_	-	3	3
St. Giles and St. George, 1	Blo	omsbu	ry		-	-	4	1
Total admitted			. 1	141	137	155	149	582

Up to the 21st of last month, Dr. Grieve reported the cases admitted to have been particularly virulent, but from this to February 3, that they had been of a less malignant character. The death-rate from December 1, 1870, to February 3, 1871, was 17 per cent., which he considers to have been due to the worst eases having been selected to send to Hampstead, in consequence of the demand for Hospital accommodation having been greatly in excess of the supply. He stated to us that he had had fifty cases of the hæmorrhagic form of the disease in the Hospital, all of which had died. This observation of the prevalence of this variety of the affection in unvaccinated persons, and of its certain fatality, corresponds with that of independent observers in various parts of London. He thinks that they mainly occurred in persons who were intemperate. We have, however, ourselves seen several cases, in young persons and children, where this cause could not have been operative. Again, he says that of the whole ninety-nine deaths that occurred, twenty-four, or about one-fourth, took place within forty-eight hours of the admission, and many more on the third day. It was this fact that probably gave occasion for the inconsiderate rebuke of the Poor-law Board to the Medical officers of unions that we commented upon last week. One serious and unlooked-for result has been, to show how much more the epidemic has attacked males than females over 5 years of age. Up to January 21, the number of the former admitted was 237, and of the latter 165. The reverse had been anticipated. The advantages of previous vaccination to those attacked has been shown, both in the lower death-rate and in the lessened duration of the illness in the cases which recovered. Of the 582 admitted up to February 4, 423 had been vaccinated, and of these, 29 died-that is, less than 7 per cent.; while of the remaining 159, who were unprotected by vaccination, 68

died, or nearly 43 per cent. The average detention of the vaccinated cases that recovered in the Hospital was 23 days, and of the unvaccinated, 34 days. Another observation made by Dr. Grieve is, regarding the age of those admitted with small-pox and their vaccination, that whereas, in the first decenniad of age, the unvaccinated preponderated over the vaccinated, this proportion tended to be revened as the age advanced, until, above 40 years of age, there were very few (only four) who had not been vaccinated. We may look with confidence for some very valuable results from the observations of Dr. Grieve at this Hospital; the statistics he is collecting will, when the epidemic comes to an end, add greatly to our stock of knowledge, both of small-pox and the protective power of vaccination.

PROPOSED TEMPORARY SMALL-POX HOSPITAL AT ISLINGTON.

THE Poor-law Board have communicated to the guardians at Islington their intention to take the old and disused workhouse in the Liverpool-road, with the object of handing it over to the Asylum Board for conversion into a temporary smallpox Hospital. So far as the adoption of this building is concerned, it appears to us to be a step in the wrong direction. The main building was erected about a century ago, and a wing for infirmary purposes was added at a somewhat later period, and it exhibits all the faults of construction which might be expected in a workhouse building of this age-lowpitched rooms, bad lighting, and bad ventilation being characters obvious at the first glance. Some more recent additions, however, were made a few years ago, and in this part there are rooms which might be adapted to Hospital purposes; amongst them there is a series of iron sheds or huts, formerly used as dormitories. The fault of the latter is that along one side there is a brick and plastered wall, which is incurably damp, and they are badly ventilated. The reason assigned by the Board is the necessity of providing additional accommodation immediately, and of avoiding the delay that would arise, were it requisite to obtain a new site, in the levelling and draining of land, and in the erection of buildings. We scarcely think this reason is valid, inasmuch as there is still an abundance of unoccupied land in Islington, the temporary use of which could no doubt be obtained by the Board; while the Hampstead experience shows in how brief a time iron huts can be raised and fitted up for use. Taking into account the dilapidated condition of the old Islington workhouse, and the numerous structural alterations that will have to be made in it, we question whether much time, if any, will be saved by the proposed plan. The buildings, which are supposed to be capable of accommodating 150 patients, are just now very unfit for the purpose, upless the Poor-law Board wish to see repeated there the experiences of the old Small-pox Hospital at Battle-bridge. The iron buildings might be made available, but they should be removed to another site. They are very closely hemmed in by the other workhouse buildings and private houses, and there would be a difficulty in properly ventilating them where they now stand. At the same time, we consider the objections raised by the Islington guardians as somewhat unreasonable; nor is that board very consistent in the opposition they have raised to the scheme. They have raised a grand outcry about the danger of infecting the neighbourhood; yet, euriously enough, some weeks ago they themselves devoted a portion of this very building to the reception of eases of small-pox that could not be admitted into the Asylum Board's Hospitals, and up to the present time no fewer than eighty-four cases have been treated there, the number now in the building being forty-four. So far as the transference of this local Hospital to the Asylum Board is concerned, we think that (setting every other objection aside) there would probably be an advantage both to the patients and to the neighbourhood. The Islington guardians, in their use of the buildings, have selected for Hospital purposes the very worst part of the whole block, where the rooms are, in fact, the lowest in pitch and the worst ventilated; and the nursing, we learn, is carried out through the medium of paupers-under the superintendence, however, of a woman who is not a pauper, and who performs her duties very satisfactorily. Should the Poor-law Board persist in their proposal, this part of the buildings would, at all events, have to be abandoned, except, perhaps, for the residence of the administrative staff. But we hope that the Poor-law Board will not persist, but that some more wholesome provision will be made elsewhere on the Hampstead plan, the use of the old workhouse being altogether abandoned. We are sorry to see that one of the local papers, circulating largely in Islington, which publishes the letter of the Poor-law Board and the discussion among the guardians respecting it, counsels active physical opposition on the part of the inhabitants of the neighbourhood.

"We counsed the inhabitants of the neighbourhood," the citior writes, "to oppose it, if necessary, by actual force. Let them meet together and arrange themselves in companies, and, armed with stoat bludgecons, keep watch over the premises day and night; and, if any Poor-law official presumes to approach the place, let him be escorted by a detachment beyond the parish lounds. We advise them that they will be perfectly safe in doing this, for the Poor-law Board is enting ligelayl in Section 1992. The property of the property of the property special work officials cannot take it from them without their consent. But the Poor-law Board is office in displaced property of the property of the property of the property of the property of their very resolution to employ force, if necessary, and their preparation to do so, will be sufficient to quell the arrogant spirit of the Poor-law Board!"

Lynch law in Islington would be, indeed, a sensational novelty.

DR. LIEBREICH AT ST. THOMAS'S HOSPITAL.

Tire authorities of St. Thomas's Hospital and Medical School have doubtless felt bath, with the ample monas at their disposal, they were bound to fulfil both the functions of a scientific school. These are—to teach what is known and cetablished to beginners and students; and to add to the sum of what is known for the benefit of science and of humanity at large. With this rice with Medical staff have selected Dr. Lieberich to fill the chair of Ophthalmology in the school, and the Grand Committee of Governors have recommended him to be deceded to the office of Ophthalmic Surgeon to the Hospital. This election and recommendation have been quite unanimous, and no one who knows the state of English and foreign ophthalmology will doubt their wisdom.

Schools of art and science (for the same rule holds good with regard to painting, music, Medicine, and architecture) arise in various countries at different times; they flourish for awhile, and perhaps attain great excellence, then become barren and decline; they grow so far as permitted by the scientific knowledge and material means available, and then fade like a plant which has exhausted all the nutriment within reach of its roots. The composition of organ music, for example, must have been unable to attain full development before instruments were constructed with semitones. Then new schools arise, each of which begins at the level of its predecessor, but is enabled to push out deeper roots and stronger branches by the aid of a more advanced mechanical or scientific apparatus. Medicine is a different matter now from what it was before the chemistry of the urine, the stethoscope and clinical microscopo were invented. What is true of other branches of scientific art is true of ophthalmology. The English school has attained to a position of great eminence, especially in the operative department; but the Germans have advanced further. They began by absorbing and assimilating all that was taught by the English, and made that the basis of a new school, whose boundaries were enlarged by the discovery of

the ophthalmoscope and the application of the science of dioptrics. For example, Graefe has adroitly used Bowman's physiological researches and Critchett's expert methods of extraction of cataract as the basis of his own method. Now, if the English school desires in its turn to become the reigning one, it must begin by assimilating all that Germany can teach. This may be done by sending our young men to Germany; but it were done far more effectually by transplanting hither one who has taken an essential part in the formation of the German school, and putting him in a position to influence a large number of ophthalmic students-to create a school, in fact, in which the acknowledged excellence of the English in operating and in therapeutics may be combined with the most recondite teachings of the ophthalmoscope and of the laws of dioptrics as developed in Germany. Surely it were better policy to establish a new and vigorous ophthalmic school at home than to send our students as pilgrims to Berlin and Paris. It would enhance our Professional repute, and bring its own reward with it.

Now, just at this moment, when a new Medical school is in the act of organization, there comes to Lundon, fate profiques, for a temporary shelter from the hazards of war, Dr. Friedrich Richard Liebreich, who, when a student, carried the first ophthalmoscope from Helmholtz to show it to Graefe at Berlin, who has been intimately concerned in every stage of the most advanced ophthalmology, and since the death of Graefe has been the acknowledged leader and representative of the German school. The Medical staff of St. Thomas's seized the opportunity, and without one dissentient voice invited Dr. Liebreich to associate himself with them in their new school. Their brethren will commend them. If there be any English Surgeon who had desired the post, we are sure that his sense of justice will acknowledge that the right choice has been made, and that he can affor to bide lost since.

We are aware that the Lauret of last week endeavoured to put a veto on the appointment, for the reason, principally, that Liebreich is a foreigner. If our contemporary is really sincere, and objects, on what he icalls "principle," to giving a foreigner a post in a London Medical sheelo, we will not attempt to argue the matter with him; but, in the name of the fairness and hospitality which must people think due to strangers, we must reasonstrate against one or two expressions in his article, which, if they are not attempts at unfounded insinuations, are evidence of want of information as to the matters he ventures to write about.

For instance, there is an insinuation about the "whiskered and soi-disant count;" as if Liebreich, a quiet, student-like man, had the character of a stage adventurer, all curls and grease and jewellery. There is an insinuation that Liebreich is not one of the most illustrious of the "small inner circle of ophthalmologists." If he be not, who is? There is the insinuation that he cannot speak English; as if a German who has mastered Polish, French, and Spanish, would find much difficulty in perfecting himself in English. There is the insinuation that it is a "Continental custom" to treat patients as so many "assemblages of phenomena," rather than as human beings. Our contemporary does not say that this is a German custom, nor would be venture to say so if he knew of the large clinique of poor patients whom Liebreich gathered round him in Paris by mere force of personal kindness. But enough of this wretched narrow-mindedness! Liebreich comes amongst us as a Professor and teacher, and we can assure him of a hearty welcome.

CARPENTER, LETHEBY, COBBOLD, AND HEWLETT ON TOWN SEWAGE.

How shall town sewage be dealt with—first, with regard to safety, and, secondly, with regard to use? The question seems as far from solution as ever. The most obvious course is to apply it, by means of a system of irrigation, to the roots of

rapidly-growing plants, especially to the rye-grass used for the food of milch cows; so that what leaves the town as noxious refuse may return in the shape of milk. Anyone who desires to read a most able exposition and defence of this system should procure the paper on the "Physiological and Medical Aspects of Sewage Irrigation," by Dr. Alfred Carpenter, of Croydon. This writer, who must be well known as having had experience of sower gases in every form, declares that the evils alleged to follow properly managed sewage irrigation do not exist; and not only so, but that, if a rapid and vigorous process of vegetation be established, the sewage will not only be greedily absorbed and decomposed, but Nature's own disinfectant, ozone, will be developed -so that the more sewage (within reasonable limits), the more growth; and the more growth, the more ozone, till a well-managed sewage farm ought to rival the seaside as a source of invigorating breezes.

It will be evident that Dr. Carpenter demands a certain limitation of genuity as the element of safety, and states that one aers is capable of receiving and disposing of the sewage of 100 persons. But it is certain from our knowledge of human nature that where the prime object is, not to utilise the sewage as manure, but to get rid of it, there will be a constant tendeucy to overdo the application. This was alleged unmistakally by Dr. Letheby, at a late discussion of the Association of Medical Offerers of Health, to be the case at Aldershut, where it is said that so great is the excess of undecomposed sewage applied to a limited tract of land, that not only down a large quantity of fresh frecal matter rest on the surface, where it eakes and hardens, rendering it incapable of absyrbing the liquid, but that large quantities pass from time to time into the Blackwater, which is thus converted into a stinking ditch.

Let us, however, grant that the ground for irrigation is properly levelled, channelled, and, if need be, drained, so that the sewage shall flow over or through the surface; that there shall be no stagnation, no putrid swamp, no taint of the air, and no contamination of wells below or of streams on the surface of the earth. We are then sharply pulled up by Dr. Cobboll, who lays before us the danger of the dissemination of parasitic diseases, and especially of trichiniasis, tapeworm, and of the so-called hydatids. We know that in countries where pigs have access to human excrement, the measle is common; the tapeworm may become so in our grass-fed cattle, and a new cohort of diseases be thus propagated. On this point, Dr. Carpenter, Mr. Holland, and other advocates of irrigation by fresh sewage simply defy their antagonists; they deny the propagation of parasitic diseases, and call for proof. Dr. Cobbold, on the other hand, refuses to go coram no: judice; he will not accept the negative testimony of butchers, or even of Medical men, who do not know what to look for in the flesh of parasite-infected animals, and would not recognise it if they saw it. We may refer to the papers lately read by Dr. Cobbold, and published in this journal, as evidence of the deep and conscientious study he has made of the subject, and will leave our readers to judge if the warnings of such a witness are simply to be laughed out of court.

But there comes evidence from another quarter, which reaches us as we are writing. In the report of Dr. Hewlett, the Health Officer for Bombay, for the fourth quarter of 1870, we find the following passages:—

"During the quarter the careases of thirteen full-grown, on account of the flesh in these animals having been found to be infected with what is popularly called bladder-worm or measle. "This measle, or as it is more scientifically termed cysticerous

"This measle, or asitis more scientifically termed cysticercus (κόστις the bladder, κέρκος a tail), is known to zoologists as the scolex, hydatid, or larval form of a cestoid (κεστόια girdle, έδος form) worm called in its sexually mature state the tenia medio-canellata.

"The history of these parasites is one of peculiar interest, and has even been styled romantic.

"The scolex or cysticerous cannot arrive at maturity-i.e., cannot become a perfect tape-worm, sexually mature, in the

animal into whose body it h

animal into whose body it has found its way. It is not until the flesh of the animal in which it is contained has been received into the human alimentary canal that the cysticerous

can be developed into a tape-worm.

"When this cystion macrives in the alimentary canal of any individual who may have been so unfortunate as to have eather the meat containing it, it attaches itself to the mucous membranes of some parts of the intestine by the five suching disease admirably shown [a] and thus anchored, it speedily grows into a segmented worm, which may exceed thirty feet in length. Each posterior segment (proglottis) contains both male and female organs of generation, and is, when mature, cust off from the end of the worm and passes out of the body either during defensation or by itself. It is then sapable of an independent existence for a short time, but at last decomposing gives vent to the numerous eggs that have been formed in the uterus of the segment; as each segment is given off a fresh one forms near the head or neck of the tape-worm.

"It will thus be seen that the proper disposed of human excrement affects the welfar of communities in more ways than one; for, although it is true that these eggs may be borne about by the wind, and thus find their way into the fodder of cattle, yet in this country it is more than probable that cattle become infected with cysticret by eating human excrement upon which either a projectis itself or the ova of one have ben deposited. By such means the "alternation of generations," as it has been termed, is effected. Can there be a circuper proof of the necessity for establishing a really efficient yet and the proper proper proof of the necessity for establishing a really efficient yet and the proper property and the property of sanitation in the Mofussit, which shall also would be a proper proper proper proper proper property of the property property of the property property of the property property of the property property

"I have been unable to trace the exact localities from which the infected cattle were brought, and I have therefore established at Bandora a register of all animals sold to the butchers by the dealers at the weekly fairs, and I hope, as time goes on, to to the previous history of each diseased animal.

"it is impossible to discover the existences in the animal bers it is shughtered. Most of these coss were in excellent out ition, and the butchers are grumbling terriby at the loss they seatin. It would be, of course, entirely out of my power to allow most containing these parasites to be sold. 'Great or dit is due to M. Higging, the indefatigiable super-

oreat creates and to Mr. Riggins, the indefatigable superintendent of the markets, for the vigilance he has displayed, and I think I may safely say that no meat market in the world

is more sharply inspected than our own.

"It is, however, probable that portions of best containing cysterest, when they are but fow in number, do escape detection, and it wish to warm the European, Native Christain, and Mabounchan communities, that they should themselves inspect the meat brought to their houses, and they should likewis remember that all next ought to be well cooked, as the clustees of eating live cystierest are very much multiplied by eating underdoon meat.

"According to our experience, the buttocks of the cettle are usually more indexed than the rest of the body, so that persons who are found of runp steaks should be more thru usually cautions. My thanks are due to Dr. Vende for having on more than one occasion brought to my notice pieces of meat that contained experience and mel beem sold in the markets."

Granting, then, that rewage should be applied to the land by irrigation, it seems a question whether it ought not to be dealt with in some way, first of all, to arert the plagues of which Dr. Cobbold has warned us. The butchers are not likely to tell tules of their own meet.

THE WEEK.

TOPICS OF THE DAY.

Mn. Haralak has given notice that he purposes to introduce a Medical Acts Amendment Bill early in the present session. We do not intend to offer, on more rumour, a positive opinion as to the wisdom or opportuneness of his measure. It is sufficient at present to remind our readers that no Bill which is introduced by a private member can have the chances

(a) Dr. Hewlett's paper centains some excellent drawings of measly beef and of the systicerci, both of natural size and magnified.

in its favour which seemed to invite the Government Bill of last year. Nor is it probable that any Bill introduced by a private member will, on the whole, be framed with so few glaring evils and defects as was Lord De Grey's Bill before he consented to spoil it. The introduction, for instance, of the principle of direct representation in the formation of the General Medical Council would inflict, we are convinced, a real injury on the Profession, which would not easily be counterbalanced. Yet this is avowedly the price which any member, whatever may be his private convictions or the opinions of the best and wisest of the Profession, must pay for the support of the wire-pullers of the British Medical Association. Again, the experience of last session proved the enormous difficulty of passing a Bill which would erect a real sole portal into the Medical Profession, but the comparative ease of creeting a portal in addition to the nineteen which at present exist. The latter is a sham reform, a mere mockery, which might, perhaps, provoke but little opposition, but which would leave things only worse than they now are. Nevertheless, we are perfectly certain that no Bill which debarred any Medical authority from granting a diploma to any candidate who had not passed through the national examination could be forced through both Houses of Parliament; and yet, as we have repeatedly shown, anything short of this is a mere addition to the present confusion. For these reasons, we are not sanguine as to the value or success of any private Bill. A really good Bill cannot pass at the present conjuncture, and it must be the aim of those who possess the power, to stop a bad or an indifferent one. The Profession must reform itself, and this it may do to a very great extent without the help of Government or Parliament.

It is understood, however, that Mr. Headlam is, on this occasion, the mouthpiece of the "Reform Committee of the British Medical Association." Dr. Edward Waters, of Chester, who, as chairman of that Committee, may be supposed to be well acquainted with what the Bill will contain, in a letter which has appeared in the Pall-mall Gazette, writes that one of its main provisions is "to secure for the registered Medical Practitioners direct representatives in the General Medical Council to the extent of one-fourth of its numbers, in order to neutralise the existing preponderance of the representatives of the Corporations." If this panacea of direct representation be, indeed, an integral part of the Bill, we shall have no hesitation in offering it our determined opposition. In that opposition we know we shall be supported by all those of our Profession who are qualified by ability and information to form an opinion, and who are unbiassed by motives of personal vanity and a love of the notoriety which attends agitation. We shall oppose it because we have no wish to see the Associations of a scientific Profession transformed into Medicopolitical clubs; because we have no desire that the internal eccuomy of the Profession should fall into the hands of mere Medico-political adventurers; because we would not allow the usefulness and prosperity of our Profession to be interrupted by the bitterness of ever-recurring struggles, the clamour of opposing parties, and the tax of election expenses; because we hold that the General Medical Council, although, like every other human institution, it be not perfect, can only be deteriorated and damaged by the infusion of men who would stoop to election tactics, and, quitting the paths of true Professional honour, spend their time and money in canyassing; lastly, because we believe that the true reform of the Profession is utterly different from revolution, and that whatever may have been the shortcomings of the Medical Authorities, which we gather it is the aim of the British Medical Association Bill to neutralise and incapacitate, we shall oppose their destruction, because those Authorities have shown themselves willing and able to raise the standard of Medical education, to maintain the honour and status of the Profession, and because they have already given the British Empire a body

of Medical men who, whether as private Practitioners, teachers, scientific workers, or public benefactors, are equalled by no Medical body in the civilised world. The Reform Committee of the British Medical Association has its Bill, and we hear that the editor of the Lancet has his, although it does not yet appear whether any Medical or other member of Parliament will be found who will have the courage to stand up in the House of Commons and say that he represents-the Lancet!

The scheme for the Conjoint Board formed by the three English Corporations was discussed in the Council of the Royal College of Surgeons on Thursday. A feeling of regret that the Universities had not been invited to take part in the scheme led the Council to adopt a resolution, which referred the scheme again to the Committee, on the ground that it was not so comprehensive in its scope as was originally contemplated by the Council. There seems to be in some quarters a great misconception as to the mode in which this scheme is to be carried out. One of our Medical contemporaries appears to think that the scheme must receive the sanction of the Government and of the Medical Officer of the Privy Council before it can be brought into play. There can be no greater mistake. The only body whose sanction to such an arrangement must be obtained is the General Medical Conucil. The Corporations combine in virtue of the 19th section of the Medical Act, and no other authority than that of the General Medical Council is necessary. The scheme is, of course, distasteful to those who dislike a quiet, unobtrusive, but very real reform, because it must do away with their trade of popular agitation, and supersede the revolutionary schemes by which they hoped to attract attention to themselves.

We may direct our readers' special attention to the papers to be read at the meeting of the Epidemiological Society on the Sth inst., when the Society invite the attendance of all who take an interest in their subject. Dr. Scaton, the President, will speak on the present epidemic of small-pox, and Dr. Grieve give an analysis of a large number of cases admitted into the Hampstead Hospital during the same epidemic.

Charles Gerard, B.A. Oxon., a private teacher, of Lincoln's. inn-fields, was sentenced at the Central Criminal Court on Wednesday last to twelve months' imprisonment, with hard labour, for conspiring with Reuben Newport, a printer, to induce one Heatly, a "proof puller" in the service of Messrs. Gilbert and Rivington, the printers to the Apothecaries' Society, by a money bribe, to rob his masters of the papers of questions which were to be used at the last Preliminary Examination at the Hall. At the trial, it was proved that Gerard was an old offender. The printers to the Royal College of Surgeons proved that he had made an unsuccessful attempt to obtain the Fellowship Examination questions in 1866. The printer Newport, who was the tool of Gerard in the matter, was recommended to mercy by the jury, and sentenced to two months' imprisonment. There have long been rumours of underhand dealing with regard to examination papers. We believe that the chief, and, most probably, only offender has been taken, and we are glad that a severe example has been made. Too much credit cannot be given for the manner in which the capture was planned and executed, and the case conducted. Any feeling of reluctance to pass a severe sentence upon an educated man which might have existed in the minds of judge or jury must have disappeared, when it was proved that for years he had been engaged in similar nefarious schemes

A girl named Emily Sweetnam was tried at the same sessions for the wilful murder of her new-born child. The child was found beneath a table in a scullery, with its skull fractured, the nose broken, and there were other superficial injuries and bruises. The barrister who defended the girl, Mr. F. H. Lewis, had evidently consulted some Medical authorities on the subject. He referred to cases in which fracture of the skull in new-born infants had been supposed to take place from falling during delivery, the mother being delivered in an upright position, or even during the progress of parturition. Whatever were the probabilities in the present case—and the Medical witnesses seem to have believed that the injuries could not have been produced accidentally-the girl was acquitted.

The little hippopotamus which was born and died last week in the Zoological Gardens seems to have been a melancholy instance of the evils of civilised existence. The poor little brute was probably heir to ills bequeathed by the unnatural mode of living of its parents. It seems to have suffered from chronic peritonitis in utero, for its stomach and liver were adherent to the peritoneum. There have been now eight hippopotami born in Europe, and of these only one has survived its birth for any time. The exception, however, only lived to be the most unfortunate. It was born and reared at Amsterdam, and when it was about a year old it was bought by an American, who, on his way to the far West, deposited it at the Crystal Palace, where it was burnt alive in the fire that took place there about three years ago. Fate is evidently against the hippopotami in Europe. We believe that the mother at the Zoological Gardens appeared to make up effort to suckle her infant; an attempt was made to feed it artificially with milk.

Dr. Sandersen's resignation of the Physiciancy at the Brompton Consumption Hospital has made a vacancy in the staff, which will be filled by the promotion of Dr. Charles T. Williams. For the resulting vacant Assistant-Physiciancy, there are, we believe, five candidates in the field-Dr. Franklin Gould, M.D. Edin., B.A. Lond., Acting Demonstrator of Physiology at King's College; Professor W. H. Corfield, M.B. Oxon, Professor of Hygiene at University College; Dr. J. Wickham Legg, M.D. Lond., Physician for Casual Patients at St. Bartholomew's; Dr. Roberts, Assistant-Physician to University College Hospital; and Dr. Edwin Haward, Physician to the Westminster General and Farringdon Dispensaries.

The King and Queen's College of Physicians in Ireland, roused, we suppose, by the strictures of Dr. Stokes on the condition of Medical education in Dublin, has passed the following -to our minds, lame and impotent-resolution :-

"That, in the opinion of this College, a mode of combining clinical education with clinical examination of all students educated, wholly or in part, at the Dublin Hospitals, might perhaps (the italies are ours) be devised, that would secure the session by Dublin Hospital students of a superior knowedge of practical Medicine, in the following way, viz. :"That the Physicians of the several Hospitals in Dublin

should constitute themselves into an Examination Board.

"That such Board should institute periodical clinical examinations, at each Hospital, of the students attending at such Hospital, who would desire to present themselves for examina-

"That the Examining Board at each Hospital should consist of at least one of the Physicians of the Hospital, with two or more Physicians from other Hospitals; and that a certificate of having passed such clinical examination should exempt all candidates for the licence of this College from examination in Clinical Medicine at the licence examination.

And that the Physicians of each of the recognised Hospitals of Dublin be requested to favour the College, through its Registrar, with their opinion as above.

The evident doubt in which the College is as to the efficacy of its resolution, may disarm criticism. But even should it be as effectual as perhaps it might, we cannot approve the College delegating its functions as an examining body to the Physicians of the Dublin Hospitals.

Mr. Hillman has resigned the Surgeoney to the Westminster Hospital, and we should hope, as a matter of course, that Mr. Francis Mason, the senior Assistant-Surgeon, will be elected to the vacant Surgeoncy. Mr. Mason is Lecturer on Anatomy and Teacher of Operative Surgery in the school, and he has the best claims to the post. In order to qualify himself for it,

he has had to resign his appointment as senior Assistant-Surgeon. We need not remind the governors that he has, besiles the claims of service in their Hospital, the highest standing as an able and sound Surgeon.

Of the tan gentlemen who passed the competitive examination for Assistant-Surgeoncies in the Navy, only one is from a Loudon school—the Westminster Hospital; one is from a Scottish school—the Glazgow University. The other eight are from Irish schools. The Naval Medical Service has either special attractions for our Irish cousins, or very little attraction for Inglishmen and Scotchmen.

SUGGESTIONS FOR THE BEORGANISATION OF THE ARMY MEDICAL DEPARTMENT, BY A STAFF SUBGEON-MAJOR.

The author of the pamphlet bearing the above title commences with the proposal of a question which, whether for good or ill, has latterly been very attractive to British legislators and taxpayers-namely, How can the two ends of increased efficiency and decreased cost be best attained? He thinks, so far as the Army Medical Service is concerned, that he has hit upon the plan which will fulfil both conditious. The change which he proposes is a decided one, but not so radical as the advocates of the general staff system would demand. He considers that it would be a great mistake to do away entirely with the regimental Medical sysem, but would abolish regimental Hospitals, reduce the number of Medical officers in cavalry and infantry regiments from two to one, and abolish Surgeons-Major and Surgeons of artillery. He thus makes a pretty clean sweep of regimental Medical officers. Those whom he would retain under that designation would be Assistant-Surgeons above six years' service, and to whom he would give the title of "Second Surgeons." Their duties would be to take charge of the regimental dispensary attached to each regiment and battery of artillery, and in which there should be only half-adozen beds, for the reception of urgent or trifling cases. Patients requiring Hospital treatment should not be detained in the dispensary more than twenty-four hours under ordinary circumstances, but should be sent to the particular Hospital detailed to receive the sick of the regiment. The daily inspection of the regimental prisoners; examination of recruits; the Medical attendance on sick officers and their families and the regimental women and children living in barracks; attendance to assist at operations or in consultation on serious cases at the military Hospital of the station; the preparation and charge of the Medical history sheets, of a register at the dispensary of the diseases and length of time under treatment of all non-commissioned officers and men admitted into Hospital, and officers on the sick-list, and of a case-book for all serious cases occurring among officers, women, and children; the iuvaliding duties at the head-quarters of the regiment : weekly Medical inspections of the men, also of the rations, barracks, canteens, outhouses, cells, etc.; attendance at ball practice and route marching, when considered necessary by the regimental commanding officer, would also fall to the lot of the regimental Medical officers. Such duties in a regiment of infantry numbering 850 men, and in a battery of artillery with only 150, would appear to us to bear so very unequally upon tho respective Medical officers, as to render this part of the plan quite impracticable, although an attempt is made to equalise the duties of Medical officers attached to batteries of artillery, by suggesting that they should be available for ordinary duty at the military Hospital nearest their quarters, but that only at Woolwich should they have to perform the duties of orderly Medical officer of the day.

The proposer of the scheme considers the double sort of Government which now applies to regimental Medical officers to be very objectionable; but we do not see that his plan would in any way remedy it, except by reducing the number of those under its influence. The regimental dispensary, as a half-way house between barrack and Houghila, is analogous to informer;

of the French Hospital system, and would tend rather to increase the number and complicate the nature of the records necessary to keep up a detailed history of the health of the regiment as a whole. The fact of these records being kept at the dispensary by one Medical officer, while the platients are being treated in the Hospital by another, would deprive them of much of their value. The invaliding also being carried on by the regimental Medical officers, instead of by those through whose hands the soldiers had passed as patients, would be attended by great difficulties, as regards both the interest of the public and the claims of the individual.

Military Hospitals, according to the plan under notice, would be of three kinds-viz., general, garrison, and detachment Hospitals-and be under the control of the Medical officer in charge. The appointment of military governor of general Hospitals would be abolished, but the Hospitals would be subject to the periodical inspection of the senior military officer of the garrison in which they are located, and would be visited daily by a military officer not under the rank of captain, and iu the larger garrisons of field officer. The Medical charge of general and garrison or camp Hospitals would be for three years, and in the larger Hospitals one or more Medical officers would be appointed as second in charge for a similar period. The ordinary routine duties of all military Hospitals would be performed as garrison duties by staff Medical officers under the principal Medical officer, independent of regimental interference. The present designations of Medical officers in the administrative ranks would be retained, but in the lower ranks would be altered into "executive" and "assistant-executive" officers, the former to be "senior Surgeon-Major" and "Surgeon-Major," instead of the present Surgeon-Major and Surgeon, the latter to be "Second Surgeon," in place of Assistant-Surgeon above six years' service, and "Assistant-Surgeon.'

We have stated some of the most obvious of the objections to the proposed plan; others, no doubt, will occur to many of our readers. We fear that the delay in the appearance of the long-expected new warrant for the Army Medical Service implies that the authorities do not yet see their way to the remodelling of the department. One thing is certain—that no plan will be completely acceptable to Medical officers which does not hold out some prespect of acceleration of promotion; and, as we have frequently said already, the only way which at present appears likely to effect this is to enforce retirement from the administrative ranks after a certain period of service in the same, and to grant better terms of optional retirement to Medical officers from fifteen to twenty years' service—say one shilling per diem for each pear of full-pay service.

ALLEGED GERMAN BARBARITIES.

WE are glad to observe that the facts as to the alleged burning of a captain of Francs-tireurs by German troops, near Dijon, have been made public by a Medical officer of the Baden division, in a letter in the Freiburg Gazette, and quoted in the Pall-mall Gazette of the 28th ult. It appears that the officer must have received an instantly mortal wound in the back, from one of his own men, before the château which his party was holding against the Prussians had been set on fire by the latter, in consequence of the Francs-tireurs continuing to fire ou them from the upper windows after the officer had come out and offered to surrender. While ascending the stairs to call on his men to cease firing and surrender, he was shot dead by a bullet from above. The fire being still maintained, the Germans set fire to the house, and thereby compelled the Francs-tircurs to come down and give themselves up. The partially charred body of the captain having been afterwards found in the ruins, gave rise to the horrible report as to his having been intentionally burned alive, which, in spite of the representations of the chief Medical officers of the German Hospitals at Dijon, was accepted as true by Garibaldi, and

published by him in general orders. The matter appears to have been officially investigated when the German troops recovered Dipo after Bourbaki's defeat. No explanation has been yet given of the statement of some of the correspondents of English papers as to the body having been found suspended from a beam by the hands tied over the head. This may have been done as an after-thought by those who discovered the body, and who desired to obtain credence for the horrible tale.

EXAMINATION OF CANDIDATES FOR THE ARMY AND NAVY MEDICAL

SERVIC

Titts examination closed on Saturday last, but the results have not yet been officially announced. The number of candidates for the Army Medical Service was fifty-seven, the vacancies being thirty-six. Many of the competitors were of high Professional attainments, so that the competition has been tolerably close. For the Naval Medical Service, the competition was netually nil, fourteeu candidates only having presented themselves for forty-five vacancies, and of these fourteen only ten, whose names have been already published, came up to the qualifying standard. We understand that it has been intimated to such of the candidates for the Army Medical Service as have obtained the qualifying number of marks, but have been excluded by the more successful competitors, that if they are willing to enter the Naval Medical Service, no further examination will be required of them; but as to how many have accepted, or are likely to accept, the terms, we have no information. The candidates for both Services will commence the special course of instruction at the Army Medical School, Netley, on April 1, this being the first occasion for Naval Medical candidates to do so.

THE ARMY ESTIMATES.

ALTHOUGH the total number of Inspectors-General of Army Hospitals provided for in the estimates for the ensuing year remains without alteration, a change in the distribution of this class of Medical officers is about to be effected. The withdrawal of a considerable proportion of the force from Canada renders unnecessary the retention of an Inspector-General in that colony, but the increased importance of the duties at Portsmouth, iu connexion with the overland transport of troops to and from India, has induced the authorities to arrange for an Inspector-General of Hospitals to assume charge of the southern district, of which Portsmouth is the head-quarters. There will thus be five Inspectors-General on duty in the United Kingdom and one in Malta, instead of four at home, one in Canada, and one in Malta, as has hitherto been the case. We are glad to observe that the Army Medical Department has thus escaped the infliction of such a serious injury to all its members as the loss of one of the highest positions in its administrative ranks would have entailed.

PARISH OF BIRMINGHAM MEDICAL APPOINTMENTS.

SERINO in the Medical papers an advertisement that five Medical officers are required for the parish of Birmingham, some of our Medical brethren may be led to infer that there are as many vacancies in the districts. This is not the case; all the offices are filled up, and their respective holoders intend to offer themselves for re-election. From the following remarks, made by the chairman of the guardians at their last meeting, to the effect with the Medical officers had done their duty to the entire satisfaction of the guardians, to the satisfaction of themselves, and to the entire satisfaction of the recipients," it would appear that other candidates who might be induced to compete for the appointment would be putting themselves only to unnecessary trouble and expense, and would have but little chance of success.

DIED AT HER POST.

The Licepool Mercury states that a service in measurism of the late Miss Jone, the originator of the system of trained nurses for workhouses, took place in the Workhouse Church, Brownlow-hill, on Sanday crening. Miss Jones died of fever, caught in the discharge of her duties. The "Angel of the Resurrection"—a fine piece of sculpture, presented by Mr. Rathbene, M.P.—has been placed in the church as a monument to her memory. The Bishop of Derry presende the sermon.

ARMY AND NAVY EQUALITY.

We are pleased to find that Dr. Brown has introduced the question of the inequalities in the two offices of Medical Director-General of the Array and of the Navy, in the second altition of his pamphlet on the Naval Medical Service. He has asked for equalisation on the following heads:—Emolaments, on the ground that the officers have to maintain an equal position relatively to their respective services, as well as to their Professional brethren of high standing in metropolitan seciety. Honorary titles, as a complinent to the Naval Medical Department. Civil retired pay, as due to the officer under the provisions of the Superanuation Act. We hope that the retification of this will follow speedily on its becoming known to the proper authorities.

THE RIGHTS OF WOMEN.

We cannot help thinking that the recent acquittal of Mrs. Torpey, the heroine of the jewir robbery cases, supplies the Rights of Woman Association with a very strong case for renewed agitation on behalf of the cause which they advocate. If the right of women to conviction on criminal charges had been established in spite of the obsolete fiction of their being under the correion of their husbands, where would Mrs. Torpey be now?

THE MEDICAL COMMISSIONERS IN PARIS.

WE understand that Doctor Gordon, C.B., and Surgeon-Major Wyatt, Coldstream Guards, the Medical Commissioners with the French Army, have been permitted to remain in Paris till the 15th inst, for the purpose of completing the materials for their report.

THE NAVAL MEDICAL SERVICE.

FIFTERN gentlemen only presented themselves at the recent examination of candidates for Assistant-Surgeons Royal Navy. The vacancies to be filled were forty.

DISINFECTING AGENTS.—SANITABY CONDITION OF HOLDORN.

In the fortnightly report to the Holborn District Board of Works of the 20th ult., Dr. Gibbon, Medical Officer of Health,

says:—
"All the means and appliances at our disposal are being
employed to check the apread of small-pox. During the past
fortuight Mr. Brown has throughtly funnigated and disinferted
thirty-two infected rooms, and the bedding and woollen articles
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the purpose of testing the chamber as erected there by Mr. May, of Holborn, but was unable to do so, because it was not then in use. I left my self-registering thermometer with the Resideat Physician, D. Grieve, who promised to let me know what degree of heat was attained inside a flock of feather bed. Unfortunately I have not yet head from the contract of 300 degree of the self-registering the self-registering of the self-registering of 300 degree of the self-registering of 300 degree of the self-registering of 300 degree of the self-registering of the self-registering of 300 degree of the self-registering of any one of these chambers would require a considerable about the same. The cost of the ready effections one site of the self-registering of the self-registe

THE LAW BELATING TO COBONERS.

THE Bill to amend the law relating to the election, office, and duties of coroners has been introduced by Mr. Goldney. Those persons-and they are not a few-who desire to see the "very ancient and important public office" of coroner totally abolished, will not wish well to Mr. Goldney's Bill. Mr. Walter and Mr. Thomas Chambers have indorsed the draft, so that it has in no sense the character of a party measure. So far as concerns the election of a coroner for any county, riding, division, or district, the franchise is to be divested out of the freeholders as such, and vested in all the persons on the Parliamentary register. The polls are to be taken at the usual places for polling at Parliamentary elections for the county; and, while penalties are threatened for personation and bribery, the word bribery is to be construed as meaning exactly what it by law or statute means with reference to Parliamentary elections. A reform of the scale of fees payable to witnesses other than Medical men is attempted, the coroners being permitted to apply to the Home Secretary, and the latter being compelled, on such application, to alter the scale. The Bill next provides for the resignation or ejectment of a coroner. The justices at quarter sessions may grant him a superannuation allowance. If the coroner is dissatisfied with the amount, the Home Secretary is, on his appeal, to determine the same. So, also, may the justices in quarter sessions, at the instance of any elector, institute an inquiry into any alleged inability or misbehaviour of a coroner in his office; and, if the justices think that the case has been proved, they must petition the Lord Chancellor to remove the coroner. If the Lord Chancellor takes action upon this petition, and ejects the coroner, the costs of the inquiry are to be paid out of the county rates.

After January I, 1872, coroners are to be paid by salary, calculated on a five year's average of fees, mileage, and allowances; but this salary is not to include expenses and diburanceate paid on the holding of an inquest, as provided by 1 Vict., c. 68. If the Justices and the coroners in each case cannot agree upon the amount of salary to be thus ascertained, the Home Socretary is to be the referes. The quinquennial revision of salaries provided by 23 and 24 Vict., c. 116, s. 4, is to be aboilshed.

Coroners are henceforth to make returns to the Secretary of State of the particulars of all inquests held by them, and they are also to put in writing all the material parts of the evidence given at inquests, and to give copies, at the rate of 2d. per folio of ninety words, to certain persons named.

Such is the substance of the Bill in question. Possibly, on

the second reading, a debate may cause on the question of coroners or no coroners. The need of coveners at the present day ought, to some extent, to be superscaled by the efficiency of a trained police. Murder and manalaughter might sarely be discovered by the skill and activity of their constables, inspectors, and detectives, although cases of secret poisoning form an exception, as requiring more scientific investigation, involving generally the necessity of post-mortem examinations. But as for railway accidents, the Courts of Common. Law and the Government Inspectors generally unravel these mysteries in a more thorough and even scientific manner than can be done by the improvised machinery of a coroner's inquest.

FROM ABROAD.—BEPORT ON THE EFFECTS OF THE PRUSSIAN ARMS

-- ACTION OF PAIN ON DIGESTION AND NUTRITION.

WE have given, from German sources, several accounts of the effects of the arms employed in the present war, and to-day we notice some of the observations contained in a report of two French Military Surgeons-Drs. Goujon and Féliset-made during the siege of Metz, on the effects of the Prussian arms. We have not yet been able to obtain the original report, but a resume of it is contained in the Journal de Medecino de Bruxelles for December. Bayonel wounds, the reporters state, have been very rarely observed in Metz, and, as the Prussians do not use the sabre-bayonet, but the old triangular one, these were very slight, and readily healed. Sabre wounds were more frequent, and especially after the bloody battles of Borny and Gravelotte. The Prussian eavalry sabre differs from the French in being less long and heavy, but broader. It is considerably curved, so that it cannot be thrust like a bayonet. Almost all the wounded were cavalry, who had taken part in the charges, the left arm being the especial object of attack, the Germans making every effort to ent through the reins of the horse and the hand that holds them. These injuries were, in general, not of a serious character, giving rise, for the most part, to superficial and open wounds, and healing readily.

Artillery .- Of 100 gunshot wounds, the reporters found a mean of 70 produced by shells and 30 by ball; and of 100 wounds produced by fragments of shells, they constantly met with a mean of 60 wounds on the back, or the point of union between the neck and shoulder, and 40 wounds in front, or of the extremities. The shells furnished with a fulminating system burst on encountering the ground by their points. They do not all burst, and a man struck by a shell before the end of its flight suffers infinitely less than at its explosion. The form of the fragments was much varied, as was their weight; for while these have been extracted weighing scarcely 3 grammes, in an instance occurring to one of the reporters the foreign body exceeded 500 grammes in weight. The fragment sometimes penetrates directly, often producing the most frightful lesions; at others, it only affects the superficial parts, turning round projecting parts under the skin, either to a slight or a considerable distance from its point of entry. These differences as to the severity of the action of the shell obviously depend upon the distance at which the wounded person happened to be from the point whereat the shell struck the ground. The reporters have often seen soldiers, struck by the fragments at about 150 metres from the point of bursting, receive only simple contusions. The track of the fragments is usually easy to follow, and their extraction, in most cases, unattended with difficulty-the contact of the probe with the metal giving a "dry" sensation, which leaves no doubt as to the presence of the projectile. The brass portion of the projectile is usually the only part that reaches its end, its leaden neck-piece having disappeared. Small, irregular fragments have been met with, which gave rise to the belief of their being the remains of explosive balls. No Surgeon in Metz, however, has ever found explosive balls. Wounds from fragments of shells, when the bones had not been broken, generally did very well. The cases were, of

course, more serious when these were fractured, but not more so than ordinary compound fractures.

"Thus, in our Hospital," the reporters observe, "wherein our patients, for nearly two months, were deprived of salt, condemned to eat horse-flesh, rationed in their bread, deprived of brandy, quinine, etc., and exposed to terrible moral depression, orandy, qualité, etc., and exposed to territore moral depression, we yet found the recoveries very numerous in the cases of wounds from fragments of shells. There is no special gravity, in fact, attaching to these. The soldier instinctively deraids the effects of these projectiles which, lumbed from a battery ascreely visible above the horizon, arrive and burst non him. The frequency of the wounds caused by this engine served to The requency of the wounds caused by this engine served, where up the intimidation thus commenced. What was the cause of this frequency? We must let these facts reply. At the battle of Gravelotte, entire regiments ordered to lie down flat at about 3000 metres from the enemy, remained in such a position from seven o'clock in the morning until from two to four in the afternoon. Showers of shells came, and many soldiers perished without firing a shot. At St. Barbe several regiments received the same order, and suffered considerable losses. An utter ignorance of the effects of shells immobilised these troops on a spot that was entirely exposed. We have already stated that, of 100 wounds from fragments of shells, sixty occurred at the point of union between the neck and shoulder—these being precisely the wounds received while lying face downwards."

According to the reporters, wounds from fragments of shells are less frequent during charges on the guns. On October 7, the Third Voltigeurs and Chasseurs de la Garde marched at a ranning pace over about 3500 metres, under a well-sustained fire of artillery, and carried at the point of the bayonet the Château de Ladouchamps, where two batteries were established. In a ward entirely filled with the wounded from this action, forty-seven out of sixty had been wounded by balls, and only thirteen by fragments of shells. The proportion of shell and ball wounds was, therefore, reversed; for, while the ordinary proportion was 70 per cent., here it was only 21 per cent. These figures are not rigorously accurate, as they only relate to the experience of one ambulance; but the soldiers declared that they had suffered little from the shell. It was remarked that, during this combat, at every 500 metres traversed by the soldiers, the German cannonade was arrested, apparently in order to readjust the aim.

Balls,-The Prussian balls, much larger than those of the chassepôt, differ from these also in form. They are quite oroid, more pointed at one end than the other, and with a larger transverse diameter than that of the French balls. If they do not come in contact with a hard body, the track of the wound they cause is regular, the orifices of entrance and exit not sensibly differing in extent. A great number of these balls penetrate only to a small depth, and are easily found under the skin, which they detach sometimes to a considerable extent without penetrating deeper. Their size renders their extraction more easy, and they are more rarely changed in form than those of the chassepot. Most of the French wounded were struck in the legs, a circumstance depending upon the habit the Prussians have of not raising their guns higher than the hip. The wounds of the extremities were, for the most part, only simple "seton" wounds, which were rapidly cared. Even wounds of the chest, in the experience of the reporters, were not so fatal as usually believed. Of thirteen patients whose chests were traversed by balls, nine recovered in from a fortnight to two months. The wounds from the chassepôt, which the reporters had the opportunity of observing in the Prussian prisoners, were usually of a much graver character. The orifice of entrance of the ball being very small, and that of exit being three or four times larger, it is evident that great laccration of tissues must have been produced by the passage of the projectile through them. The bones struck by these balls are reduced to a great number of fragments, as many as twelve or even fifteen being sometimes extracted from the wound. The chassepot ball always penetrates deeper into the tissues, which, joined to its smaller

size, renders its extraction more difficult. Almost always it is

misshapen, and frequently is divided into several fragments, which are found separated from each other, and sometimes projected to a great distance in the soft parts.

In continuance of former researches on "The Action of Pain on Calorification, and on Respiration," Professor Montegegazza, of Pavia, has just published (Gaz. Med. Lombardia, February 11 and 18) an account of a series of experiments he has instituted on frogs and rats, to ascertain "The Action of Pain on Digestion and Nutrition." These, as may be supposed, involved much suffering, and we wish that we could state that the importance of the data supposed to be ascertained by them are of sufficient importance to justify its infliction. This, however, is not the case, for we can see little in them not already known, or that might not have been reasonably inferred. However, here are the conclusions arrived at, from which our readers will be enabled to judge for themselves on this point :

1. Pain disturbs the digestion in many ways-viz., by diminution of appetite, repugnance to food, various forms of gastralgia and dyspepsia, the arrest of stomachal digestion, vomiting, or diarrhosa. 2. We are able to demonstrate experimentally in animals that pain renders gastrio digestion much slower, the effect being alike in batrachians and mammals. 3. In the higher animals, prolonged pain produces, on nutrition, as its ultimate effects, a great degree of debility, and much emaciation. 4. In frogs, during winter, when alimentation cannot disturb the effects of pain, prolonged suffering induces, on the part of the animal, the absorption of a larger quantity of water, approaching to the condition of saturation in cadaveric imbibition. This absorption is in direct proportion to the loss of force by the unimal, and to its approach to death-the nature of the death not seeming to exert any influence on the absorption of water which takes place after its occurrence. 5. This imbibition of water is so regular that, in the frog, it may serve as a true measure for appreciating, during winter, the amount of debility and the danger to life. 6. Indirect and very grave effects of pain on the general nutrition, are the establishing a greater vulnerability to all noxious causes, and affording a more propitious soil for all pathological germs, whether inherited or acquired. 7. It is probable, but not demonstrated, that pain, besides enfeebling the economy by a direct diminntion of the digestive and assimilative processes, may alter the composition of the blood by ponring into it the products of a pathological digestion-true ferments of proximate or remote disease. 8. In the nerves of a limb for a long time tortured, histological lesions may be found after death, which, it is highly probable, are due to the mechanical injury. 9. In the centres of the spinal marrow no sensible changes of structure have been recognised, oven when the torture has been uninterruptedly continued during a mouth. 10. It appears that the most serious tranmatic lesions are less dangerous to nutrition and to life when, by means of etherisation, pain is prevented. 11. The disturbances of digestion and nutrition, brought on by pain, are such and so numerous that it is more easy to imagine than to specify them. They traverse the entire scale, from simple anorexia to death from inanition, from vomiting to tuberculosis.

AUSTRALIAN MEDICAL NEWS.

An inquest was held in December last, says the Australian Medical Gazette, into the cause of death of a labourer named John Ryan, aged 40, who was killed by a log of timber, weighing nine or ten tons, falling upon and completely crushing the head of the deceased, in the presence of several witnesses. What information was expected to have been brought to light by sending a post-mortem maker from Melbourne-a distance of twenty miles-to make an autopsy of the mutilated remains of this unfortunate man? We presume the Solicitor-General's attention has been drawn to this wanton waste of public funds. Quackery .- " Medicus" writes to the Australian Medical Gazette that "the Medical Act, intended for the suppression of illegal practice, seems to be inoperative. Where I reside, there are two individuals practising as Medical men without any qualification whatever. One is an ex-publican, the other a working miner. The latter, a worthless, drunken sot, has got up a petition to be appointed public vaccinator for the district. I have been subjected to great trouble and annovance from having to give certificates of death for their patients-indeed, in some cases I felt disposed to let them form the subject of an inquest." Why does he not?

Phthisis and Deaths in the Melbourne Hospital .- During the four weeks ending December 5 last, eighteen deaths occurred in the Melbourne Hospital, four of which were caused by phthisis. Those dying of consumption had resided nine, six, and fourteen years respectively in the colony. One having arrived in the course of the past year, their average length of

residence in Victoria was a little over seven years.

Death from Snake-poisoning-Failure of Venous Injection .-An inquiry was held on December 16 last, at Hamilton, before A. Learmouth, Esq., coroner for the district, on the body of a farmer named Stephen Elliott, aged 34, residing at Byaduk, who died on the 15th of snake-bite. It appears that the deceased, who was in perfect health, was bitten by a black snake on the thumb of his right hand while engaged in haymaking; that a ligature was placed on the cardiac side of the wound; and that the bitten parts were excised and cauterised by the explosion of gunpowder. The deceased, who was treated at first by the internal administration of small quantities of brandy and ammonis, and by the inhalation and local application of ammonia, seems, in the first instance, to have recovered from the effects of the bite. About three o'clock in the morning of the 15th-twelve hours after being bitten, and the same length of time before his death-dangerous symptoms having appeared, the injection of ammonia into the veins, as recommended by Professor Halford, was resorted to, and repeated four times between that time and ten in the morning. The deceased, who retained his faculties to the last, and did not suffer from drowsiness or lethargy, died about twenty-four hours after being bitten.

DARGIAMPETADY - WEDICAL ACCE AMPRIMENT - CWATT-DOY AT STOKE NEWINGTON.

In the House of Commons, on Tuesday, February 28,

Mr. Headlam gave notice that on Thursday next he should move for leave to bring in a Bill to amend the Medical Act of 1858.

Sir G. Jenkinson asked the President of the Poor-law Board whether he had noticed a statement in the Times of the 23rd inst., and signed by Robert Brett, Surgeon, Stoke Newington-green, containing a description of several families in the parishes of St. Augustine and St. Chad, Haggerstone, in the parishes of St. Augustane and St. Chao, Haggersone, in a terrible state of want and destitution, and suffering from small-pox; whether he had taken or intended to take any steps to ascertain the truth of that statement; and whether the authorities of those parishes were fully and adequately performing their duties under the existing poor-law in respect of those families so suffering as stated.

Mr. Goschen replied that his attention had been called to the matter, and that he had taken steps to ascertain the truth of matter, and this no mad taken steps to ascernal the train of the statement in question by communicating with the gentleman who had written the letter, and with the relieving officer of the parish. No doubt, the locality was in a terrible state of suffering, and when the horrors of small-pox in any household were considered it could be easily imagined what they nou were consistered it could be easily imagined what they must be in the densely-coweld devellings of the poor. With must be in the densely-coweld devellings of the poor. The no blame attached to the parcelaid authorities. One of the families, which was visited almost daily by the relieving officer, was in the receipt of 10s. a week for Medical comforts and sustenance, besides what was devived from other charitable sources. The relieving officer offered 20s. to a nurse to attend to the children of the family without success. The great difficulty, he might add, was not to find money, but to find nurses. (Hear.) He was bound to state, in justice to the authorities, that Mr.

Brett, in his communication, stated that such was the extraordinary feeling they were almost glad to find still existing among the poorer classes with regard to parochial relief, that many of the families concealed from the relieving officers the fact that small-pox existed in their houses, though they had to pay private Medical men small sums for their visits and medicine. Mr. Brett said, "I have heard of the authorities going from house to house to find out cases, and being told there were none a few moments after the Doctor had left. The hon, baronet would see the extreme difficulty which local authorities had in dealing with these questions; but all that could be done had been done by them in the way of providing not only provisions, but clothing, bedding, fuel, and other necessaries

ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the undermentioned Districts.

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Putney							-	-
Camberwell						-	5	2
Greenwich						-	-	-
Lewisham						-	2	
Plumstead						-	4	_

DARWINISM AND ARISTOCRACY IN CONNEXION WITH SOME OTHER QUESTIONS.

By Dr. F. A. HARTSEN.

No important philosophical doctrine can fail to attract the attention of those thinkers who are desirous of weapons in support of their beloved convictions. If such a doctrine is opposed to the convictions of an earnest man, he will try torefute it. If this fails, he will take advantage of it. So Darwinism has been represented as an argument for every opposite social system. This was the more easily done, as Darwinism attracts our attention to the fact of hereditary predispositions, and the very principle of inheritance plays a mighty rôle in social organisation.

"Monarchical institutions," says Prof. Häckel, "probably owe their-origin to the factof qualities being often hereditary." As to this, it is possible. It may be, however, that it is not necessary to seek for the explanation of monarchism so far. It is sufficiently accounted for by the intimate link between father and son. The father naturally considers his son as part

of himself. If, now, he is powerful, he will try to transmit his or minest. If, now, he is powering, he will very consideration the proper to his soon rather than to another. On the other hand, the people will likewise consider the son as part of his father, and so will be led to consider the son the natural representative of his father.

With regard to I'rof. Hackel: does he really consider the

tendency of inheritance as an argument in support of monarchism? He does not. His objection is that not only good, but bad qualities also, are hereditary. This objection, however, is not conclusive. In the first place, the chance of inheritance-as I have before remarked-is greater for good than for bad qualities.(a) Besides, the system of monarchism includes this supposition: in the first monarch good qualities so far prevail over the bad that he is superior to all his subjects. Now, suppose that all these qualities, good and bad, are regularly transmitted from father to son, then the son of the

monarch will always be superior to the sons of his subjects. Let us now consider the real connexion between Darwinism and the principle of aristocracy. It has been said that the fact of qualities being hereditary authorises the principle of aristocracy. Here we ask, in the first place, what is meant by the principle of aristocracy? It seems by this is generally meant that the son of a man who occupied a certain rank in society has, coipso, a right to the same rank, and no right to a

higher rank.

According to this principle, the sons of a Prime Minister should necessarily be Prime Ministers, the sons of a Doctor, necessarily Doctors, the sons of a carpenter, carpenters, etc. To carry out this principle literally would meet the great difficulty, that a father has often more sons than it is possible to maintain in his position. It might be that a Prime Minister or a Bishop had twelve sons or more! It has been necessary, in fact, to limit the application of the principle, and it has generally been limited to the eldest son. But limited or not, by the fact of inheritance, this principle cannot be defended. rests upon the supposition that inheritance is the only principle which determines the likeness between a son and his father.

Now, this is not the case. Besides inheritance, we have variation. And what is very important are the following laws, which I think myself authorised to state:—1st. The more complicated is the nature of an organisation, the more in its species will cariability precail over inheritance. 2nd. The more complicated, the more refined is a quality, the less is its chance of transmission. For instance—1st. A man will have more chance of deviating from his father than would a beetle. And, 2nd. There will be more chance that a man take the features of his father than his intellectual and moral qualities. These laws stand to than ms interferents and moral qualities. Alone save assume reason. For (1st) every element of an organism is a chance of variation; consequently, the more complicated a being is, the more are its chances of variation. And (2nd) if a quality is complicated, it can only be transmitted on condition that each of its elements is transmitted; now, the more numerous these are, the less chance there is of transmission. At all events, if all qualities were necessarily transmitted to posterity, there is no guarantee for their being so in the same degree.

A third law of great importance is, that the chance of raria-

tion in the offspring of an organism increases with the complication of circumstances under which the organism tires. This law, also, stands to reason. For every elementary influence—an atom, even—acting upon a being from without has the tendency to modify its offspring. So it is clear that, cateris paribus, every complication of a being's surroundings is a chance more for the formation of variety. This last law explains the fact observed by Darwin-viz., that domestication of animals and plants

increases their variability.

Now, if we apply these three laws to man, we shall find that here the chance of variability-that is, of individuality-is very great, especially concerning his most important faculties

Another reason which makes the son deviate from his father, is the fact that the father has not procreated him alone. The influence of the mother, surely, must not be ignored. And influence of the mother, surely, must not be ignored. And although here the risk of bad influence may be annulled in a great measure by a good choice, still it must not be overlooked. For the choice is always imperfect, from our knowledge of a person being in general superficial; and we cannot know what person being in general superfical; and we cannot know what germs may slumber in a woman. Besides, the benefit derived from inheritance may be lost by neglect or abuse. And although cluention may often prevent this in some degree, education is far from being omnipotent. All this is in perfect accordance with experience. In fact, we see genius spring up where it was the least expected, and we see, on the other hand, many a son of a genius remain merely "the son of his father.

Nay, if the son of a gifted man succeeds in the same branch of talent as his father, it may always be asked if this be really the fruit of education or of hereditary genius. The first is always the more probable. For it is a fact that.

many a sou of a genius, in spite of extraordinary opportunity given him of excelling in the speciality of his father, in spite of the most ardent and powerful efforts, has failed. And

how often is it not seen that children of the same parents are ntterly divergent in the most important qualities.

But if we were obliged to admit that all excellent qualities. of body, intellect, and heart were necessarily transmitted in the same degree from father to son, even then we should not be obliged to allow that they were in the highest degree bestowed npon the eldest son. Thus experience teaches us that it can by no means be stated, as a rule, that "every man is best.

fitted for the rank and profession of his father.

So far, the principle of aristocracy is decidedly condemned by Darwinism. Still, it seems that from Darwinism some profit can be drawn by the principle of aristocracy. "Granted (it will be said) that the inheritance of abilities, as to their quality and be said) that the innertance or admires, as to their quanty ame pocularity, is very uncertain; consequently, there is no reason why every man should have a right to the professional rank of his father. Anyhow, there is some truth in inheritance, at least, as to generalities. The son of a Doctor may not necessarily have Medical talent, but some talent he is most likely tohave; he will not, probably, be a stupid man. Snpposing his father to have been well matched, any son of his will have a better chance of being a superior man than the son of a Caffre or a Papua. At all events, the sons of a parent refined in manners—in short, of a 'gentleman'—will generate those with a tendency to refinement. In fact, it is but just that the children of excellent and refined parents should be treated with more care and attention than those of the contrary." To this we may reply as follows :- Of course, there is something true in inheritance. There is, indeed, more chance that the union of two superior beings would produce superior children, rather than that of inferior parents.

The only question is, whether this is an apology for aristocracy, even in its mildest form?

Why should the son of superior parents be treated with couliar distinction? Is it in order to recompense them for pecuniar distinction: as it in order to recompense them for the merits of these parents—that is, for the merits of others !: This would be simply an injustice. No; it could only be for some just reason. This granted, we shall find that the prin-ciple of inheritance, well interpreted, does speak more in favour.

of democracy than of aristocracy.

What is meant by democracy? The only thing desired by the carnest democrat is this that each should have a social position according to his personal advantages (merits). Thus, democracy does not exclude the exigencies of inheritance, but, on the contrary, most fervently promotes the carrying out of these exigencies. If really the son of a superior man be superior himself, he has only to show it, and democracy at once assigns. him a superior position to that of the son of an inferior man. In this only does democracy differ from aristocracy : the one (democracy) takes account of exceptions, the other does not. democracy takes account of exceptions, the other does not. If by chance—which is possible—the son of an "inferior man" prove superior to the son of a "superior man," democracy will be just; not so aristocracy. Democracy, then, has all the advantages one looks for in aristocracy, without its drawbacka, and is therefore in itself superior.

Democracy is by no means hostile to children of superior opportunity of developing his germs of genius, and acquiring parents. It tries only to be just to all by giving to each the the social rank due to his personal abilities. In this manner, democracy takes care that no talent is lost to the commonwealth by which the sons even of the aristocracy may be highly benefited.

The principle of aristocracy is the more to be rejected, because it is often impossible to distinguish between two men -which is inferior or superior. It may be that a man who seems inferior possesses germs of superiority which are latent from want of opportunity of development, but which will mani-fest themselves in the most brilliant manner through his son.

To resume our conclusions, we will observe-

1st. In a complicated being like man, the fact of inheritance cannot be relied upon.

2nd. The principle of aristocracy is not a consequence of scientific investigation, but has probably been enforced npon humanity by the first powerful men, who, by natural egoism, were led to ensure that their sons should in every material. manner be their unquestionable successors.

3rd. At the ntmost, the principle of aristocracy could be only

tolerated in the early stages of mankind, under less complicated circumstances. In our times it becomes daily more objectionable. 4th. Democracy has all the real advantages of aristocracy,

without its faults, and is, therefore, the best base of society. 5th. Those who try to maintain the principle of aristocracy

are obliged to mitigate it by artificial means.

We do not, of course, consider our conclusions irrefutable. At the same time, we hope to have succeeded in defending Dur-winism against those who may have discredited it or injured its success, either by misinterpretation, drawing false conclusions, or by abusing it in favour of their own favourite views.

As appendix to the question of Darwinism and aristocracy, we would say some words on a very important subject.

Intimately connected with the principle of aristocracy is that of "mesalliances." In aristocratic countries it is generally deemed an act of immorality to marry "beneath one's rank. To many, this will seem to owe its origin to a desire of improving our race by unious of equal superiority. We doubt if the custom have so philosophical an origin. It is certain that among princes these unions are not based upon considerations of race, but rather upon the principle of accumula-tion of wealth and political influence—i.e., upon personal ambition-and it is not those who are the most superior in reality, but those who enjoy the highest titles, who are thus intermarried. But, granted that a high title were always an infallible token of real superiority, let us inquire—Is really the best way of improving the quality of our race, this, of marrying always the most superior to the most superior? The question is a complicated one. If, indeed, superior be sluays question is a complicated one. If, indeed, superior be always matched with superior, then there may be a great chance of obtaining a progeniture of a very superior kind. But, at the sume time, what would, in that case, the inferior people of: Nist procreate at all? This is not probable. Then, with whom could they procreate, but with the inferior again? The result would be that mankind were, so to speak, divided into two camps, one of which would be enormously superior to the other extreme genius in the one, extreme idiotism in the other.

If, on the contrary, we encourage unions between a superior and an inferior being, the result would be that certainly the upper layers of society would be less superior than in the former case; but, on the other hand, it would prevent the inferiority

of the latter case being so inferior, and thereby ensure that superiority be more equally divided.

Perhaps this latter case would indeed conduce to the real this question sain more amount to decide upon. Superiority is a vague term. Man is a very complicated being. Not one is perfect. He who is intellectually "superior" may be morally "inferior." So there must be a diversity of "superiority, and each case requires inquiry for itself as to tho opported quality or "superiority" in which the progeniture is expected or wished to excel. The chance, besides, of latent superiority and all the circumstances above mentioned, which are able to check the effort of inheritance, must be taken account of.

We see, then, that the task of improving mankind by suitable unions would be almost an impracticable one. If we were compelled to fix a law upon this subject, we should be inclined to frame it thus:—The best unions calculated to the improvement of our race would be those between individuals who have a real affection for each other, and in whom good qualities are so dispensed that the inferiority of the one is cancelled by the

superiority of the other.

The same remarks are applicable to the question of improving The same remarks are applicable to the question of improving lower races of mankind by crossing them with higher races-for instance, negroes with whites. Are such kinds of crossing to be encouraged? or should the higher races not be allowed to use their powers in such an attempt at improving the lower races? Generally, these questions are answered by the way of argumentum ad hominem—that is, lower races are exterminated. Has humanity nathing to say in the matter?

But the first step towards the proposed improvements should be a modification of the laws and customs which in most countries rule marriages, which, under the present state of things, are, for the most part, dictated by considerations of wealth and

THE Taunton and Somerset Hospital has become entitled to 2000/, under the will of Mrs. Scott Gould, of North Curry.

NOTES ON THE CHEMISTRY OF THE EGG.

No less than three memoirs on this subject have recently been published in Professor Hoppes-Seyler's Reports of the Dhyshoc-gical and Medical investigations which are carried on noder his auspices in the Tubingen Laboratory of Applied Chemistry. The first is by J. L. Parke, "On the Chemical Composition of the Yelke Egg;" the second, by the Professor himself, "On the Yelk of Egg;" the second, by the Professor himself, "On Vitellin and Ichthin, and their relation to the Albuminous Bodies;" while the third is by Dr. Diakonow, of Kasan, Bodies;" while the third is by Dr. Diakonow, of Kasan, "On the Phosphorus-containing Substance in the Egg of the Common Fowl and the Sturgeon." Parke's observations were specially made (1) to determine whether protagon exists in the yelk, and (2) to ascertain the chemical changes which the yelk

undergoes during incubation. undergoes during incubation.

Passing over Hoppe-Seyler's memoir, which is of no special interest, we conclude with the results at which Dr. Diskonow has arrived, which are—(1) that the leepthin, described by Golbey (in a footnote to our article on "Protagon," published about two years ago), and the phosphoros-containing body yielded by vitellin and ichthin, yield, when boiled with baryta-water, the same norderted of decomposition as nuclaton: (2) that the consame products of decomposition as protagon; (2) that they con-tain, however, twice as much phosphorus as protagon, and are, therefore, totally different bodies, or are a mixture of protagon with some other phosphorus-containing matter; (3) that, in any with some other phosphorus-containing matter; (d) that, in any case, protagon cannot be the only phosphorus-containing body phoric send in alcoholic or ethereal extracts from animal extruse is no evidence of the existence of protagon; and (b) that the quantity of phosphoric acid found in an ethereal extract freed from cholesterin and fata affords no means of judging of the quantity of protagon.

REVIEWS.

The Descent of Man, and Selection in Relation to Sex. By CHARLES DARWIN, M.A., F.R.S. In 2 vols. London: J. Murray. Pp. 423 and 475.

In his introduction Mr. Darwin tells us that, during many years, he collected notes on the origin or descent of man without any intention of publishing on the subject, but rather with the determination not to publish, as he thought he would thus only add to the prejudices against his views. Since that time, the general acceptance of his doctrines by, let us say, a very considerable proportion of those best able to judge of their value, has encouraged him to proceed with his task. In these volumes, therefore, he puts his doctrines to the test of an inquiry into the history of one single species of animals and that of the most interesting species-man. This has hitherto been tried but hy one naturalist, though one of undoubted eminence-Ernst Hackel-who, in his "Naturliche Schöpfungsgeschichte," published last year, enters somewhat fully into the subject. Of this Mr. Darwin says, "If this work had appeared before my essay had been written, I should probably never have completed it. Almost all the conclusions at which I have arrived I find confirmed by this naturalist, whose knowledge on many points is much fuller than mine." The subject of sexual selection was found to be indisensable in treating of the history of mankind; and to it,

pensate in treating of the instory of managing; and to it, indeed, the greater portion of these two volumes is devoted.

In the present notice, we propose to consider the descent or origin of man, and that rather by way of a resume than of a criticism, which, indeed, should only come after the book has been fairly mastered in whole or in abstract. The first division of the work, then, begins with an account of the analogies in the bodily structure of man to those of other animals, espein the obsery structure or man to those of which animals, especially apes. These, of course, are palpable. Some here cited are really a little trite. Thus, to say that wounds in man heal in the same ways ado those in the lower animals, is surely to extend analogy until it becomes a truism. So, also, in dealing with malariest decreases. embryonic development, the comparison of the embryo of a dog with that of a human being—enforced, as it is, by two tolerably good figures placed in juxtaposition—tends to remind one of the crude theories propounded in the "Vestiges of Creation"—how, if the process of incubation were sufficiently prolonged, the goose's egg would produced a swan. We might just as well go back at once to the embryonal vesicle, and point out its resemblance to an encysted monad.

An exceedingly interesting section is devoted to the rudi-mentary structures found in the human body. These, Mr. Darwin argues, imply descent from some being which om-

ployed them in maintaining its existence; that, being disused, they gradually sunk into less and less importance, until, in most men, they now exist as radiasents menty. Use of the most interesting of these, and one on which Mr. Darwin lays especial stress, is connected with the ear. Mr. Woolner, the eelebrated aculptor, whilst engaged on a figure of Puck, to whom he gave pointed ears, entered into an examination of the normal figure of the ear; and one of the most constant of its peculiarities was found to be a small projection from the helix, pointing forwards, near its upper part. The existence of this most men may verify in their own person; its import, according to Darwin, is as follows:—Owing to other anatomical peculiarities, the margin of the human ear is folded not erect as in most other animals; were it so, this projection would constitute its summit—in short, its presence indicates the tendency in man to pointed ears, and, in accordance with the Darwinian philosophy, implies a descent from an animal—some ancient progenitor with pointed ears.

The numerous rudimentary structures encountered in the human frame in both sexes need not be recited to Medical men, but we may just as well point out an argument used by Mr. Darwin with, we think, all fairness. It has been assumed that these rudimentary structures are necessary to the type, as it has been called, of the animal to bring it into correlation with others belonging to the same group, and to this end the wellknown archetypal skeleton has been defined; but, as Darwin known archetypus exceeds have does not, and cannot, account well points out, this archetype does not, and cannot, account for the existence of these rudiments. The theory has been invented to account for the facts, but does not, which direct

descent assuredly does.

In the second chapter we have presented to us a comparison of the mental powers of man and the lower animals. The uestion is-Do these differ fundamentally or only in degree? It has been argued that the bird builds its nest as perfectly the first time as the last; that bees require no education in the art of constructing honeycombs. Instinct has been assumed as something totally different from reason. But it is plain that animals are capable of education; everyone's experience that animals are capane or canceron, the extraordinary pets proves that. Let us cite, as example, the extraordinary pets prisoners have from time to time made in their dungeons. experience acquired by an animal, partially inherited, we call instinct; but its existence implies a capacity for profiting by

experience—that is, of education.

Do animals possess language? If by language we simply mean the power of communicating intelligence from one to another by means of sound, we must say yes. The variety of sounds which can be produced by the human voice corresponds with the variety of emotions and impressions we desire to inter-With animals, the means correspond with the communicate. end; the note of warning, the sound of mutual encouragement, are easily provided for, and are so in many animals. Then, again, there is the power of framing abstract ideas, and of com-municating them; do animals possess these? It is tolerably plain that all men do not. A very pat illustration appeared not long ago in the papers, but too late for Mr. Darwin to profit by. In the Zulu translation of the bible, a word ubomi is used to imply the highest perfection of excellence, and in this way is applied to the Deity; but, as Dr. Colenso has pointed out, it literally signifies meat more than half putrid and alive with maggots. To this horribly coarse concrete notion was it necessary to reduce our very highest conceptions to render them at all intelligible to the savage mind! Would the savage mind be elevated thereby?

The belief in a God and religious feelings have been urged as grand distinctions between man and the lower animals, but to render them valid we should have to prove that such belief and feelings were universal among mankind; but this, we are assured, is not the case even now, much less ages ago.

Darwin's third chapter is entirely devoted to the moral sense as it exhibits itself in man, and the existence of which he admits to be the most important difference between man and the lower animals. This subject he approaches from the natural history side, and begins with the following fundamental proposition-namely,"that any animal whatever, endowed with well-marked social instincts, would indubitably acquire a moral sense or conscience as soon as its intellectual powers had become as well developed, or nearly as well developed, as in man." This social instinct leads man and other animals to take pleasure in each other's company, and to perform certain acts beneficial to their association, but not to the whole of the same species. With increased mental power, there would be an increased appreciation of duties in this respect, with an increased desire to fulfil them, whilst, with the use of language, the opinions of the tribe as to the manner in which these had been per-

formed, and ought to be performed, would be more readily manifested. Finally, the habit of doing what is commonly called duty would itself facilitate its performance in accordance with that philosophy of habit so well expounded by Bishop Butler. "These," says Darwin, "naturally lead to the golden rule, 'As you would that men should do to you, do ye to them likewise"; and this lies at the foundation of morality." We shall leave the remaining portion of this part of the work relating to the development of man for subsequent discussion.

NEW BOOKS, WITH SHORT CRITIQUES.

A Handbook of Operative Surgery. By J. H. PACKARD, M.D., Surgeon to the Episeopal Hospital, etc., etc. Philadelphia.

. An excellent text-book for all the operative proceedings iu Surgery. The text is well and clearly written, and evidently the work of a thorough Surgeon and anatomist. The only novelties we are able to notice are some few woodcuts of the more modern instruments and their application-probably more inoutern instruments and their application—probably American. The chief plates are simply (innachnowledged) repetitions (slightly enlarged, with substitution of American instruments) of the plates in Bernard and Huette's "Operative Surgery." The work is, however, well got up, is prettily illustrated, and an excellent addition to a Surgeon's library, as supplying him with many hints and suggestions at a moment's

PROVINCIAL CORRESPONDENCE.

LIVERPOOT.

February 28. Some facts illustrative of the social habits of the Liverpool poor were related by Dr. Trench, at a meeting of the Health Committee, on Thursday last, which must surely lessen the sur-prise of those who have been in the habit of wondering at our

continued unhealthiness.

In a cellar in Prince Edwin-street, where a child had died of an a cross as times nowmentrees, where a child had died of small-jux, the mother, an infant, and a son 10 years old, slept in the same bed with the corpse. In Chiseuloide-street, a woman died of small-jux on February 11. On the 17th, when the house was visited by the inspectors, it was found to oration more than a dozen persons, engaged in holding a wake over the deceased, all of them under the influence of drink, and two of the women so drunk as to require to be carried away. on the women so trums as to require to be carried away. A child died of small-pox, in Gildart s-gardens, on February 18. The father, mother, grandmother, and little brother of the dead child lived by day and slept by night in the same room with the corpse; and, as if this was not enough, a wake was held on the 20th; and it was only on the 21st, and that not until application had been made for a magistrate's order, that burial Wakes are very common, the close, illwas proceeded with. ventilated room or cellar where the corpse lies being the seene of a constant succession of visitors from the moment of death to that of burisl. One case stood out as pre-eminently dis-gusting. A child died of small-pox on February 16. On the day following, the mother, during her husband's absence, took the corpse from the bed, laid it on a table, and then carried the sheets and blankets, just as they were, to a neighbouring pawnshop.

Something more than flushing sewers and correcting faulty foundations, proper though these be, is necessary to insure healthfulness to a population with habits like those detailed above, and in the facts related by Dr. Trench we see a striking according an one necessary of the renew was a striking confirmation of the opinion expressed by Mr. Newton in a paper on the causes of the town's unhealthiness, read before the Medical Society, and to which we have before alluded.

To remedy the evils resulting from the retention of the dead in rooms crowded with the living, an arrangement has been made between the Health Committee and the Burial Board, for the use of mortuaries at Anfield Cemetery, situated outside the borough, so that now, on a magistrate's order, the body can be at once removed by the nnisance authority to these safe

receptacles, and there await ultimate burial.

The Medical Officer of Health is quite alive to the great injury that may arise from faults connected with the sewers, and, acting on his representations and those of the borough engineer, the Health Committee have resolved to obtain the insertion of a clause in either a public or private Bill, which shall give them control over the discharge into the sewers of

hot water, steam, and refuse, and by which they shall also have not water, seem, and retuse, and by when they said also have power to regulate private traps and drains. As yet, there is no indication of a decline in the epidemic, and the public vaccination stations are besieged by hundreds anxious for revecemetion

The proceeds of the simultaneous collections held at the beginning of the year for the Medical charities, and amounting to £4500, were, on the 21st instant, apportioned; the three large General Hospitals-viz., the Royal Infirmary, the Northern, and the Southern-receiving £1440, £720, and £630 respectively, while two small special institutions received £11 5s. cach.

REPORTS OF SOCIETIES.

CLINICAL SOCIETY OF LONDON.

FRIDAY, FEBRUARY 10.

Dr. W. W. Gull, President, in the Chair.

Dr. Handfield Jones read a short paper "On Puncture in Annearca," in which he advocated the making of a single puncture in the calves of both legs with a fine trocar, and, after withdrawing the stilette, leaving the canulas open for several hours, to allow the fluid to drain away. In this manuer he succeeded in the first operation in drawing off sixty measured succeeded in the first operation in drawing off sixty measured comes of fluid from the right leg, but only then from the left, ourself of the first fluid from the right leg, the right of the right property in the subcutaneous cellular tisane. In the condition of the same man, three days afterwards, be the condition of fluid, besides a great deal which ran from the punctures for several days afterwards, sufficient to saturate three blankets. For the performance of the operation, the man was placed in a sitting posture; and this he considered important, as it facilitated the draining away of the fluid.

Mr. COOPER FORSTER asked if the peculiarity of the opera-tion lay in the single puncture or in using a cannla and allowing it to remain so long. It had been his practice to make but a single incision, and he thought the canula more likely to irritate than to do good. The incision he made was about an inch

Dr. H. Jones thought the incision a more severe remedy than a prick with a trocar. He was sure the practice alluded to by Mr. Forster was not universal.

Dr. Dyce Duckworth commended Mr. Forster's plan, which be thought better than needles. He thought an opening near the outer malleolus was usually most satisfactory. He kept poppy fomentation applied to the part. Dr. H. Fagoz said needles were still often used at Guy's.

Dr. H. FAGOE said needles were still often used at vay s. It was a good plan to keep the surface greased, to enable the fluid to trickle off more readily. This was Dr. Gull's plan.

The President considered that the mode and the seat of operative interference were very important. So also was the form of dropsy. Pricking succeeded admirably in dropsy from heart disease; not so well from Bright's disease. A trocar, as well as a knife, seemed formidable, and many would allow a needle to be used who would not suffer either of the former to approach them. He thought the fluid changed after effusion, gradually becoming more dense. He considered the plan of greasing the limb good.

Dr. HANDFIELD JONES also read a paper " On Two Cases of in both of which he gave complete urinary analyses. The conclusions which he drew from these cases were-1. That during the height of the chorea the amount of the urinary exerction was much above what it was when the malady had ceased. 2. That the urea excretion during the chorea period was enormous, being no less than 10 grains per pound of body weight, the normal amount being 3 or 3.5 for an adult. During convalescence the urea amount fell to 3.9 grains per pound of body weight. 3. The phosphoric acid exerction varied like the ureal, being no less than sixty grains during the acme of the disease, and only 14.5 during convalescence. The mean amount adopted by Dr. Parkes is 48.8 grains for an adult. 4. The uric acid was in fair amount during the acme of the malady, but became nil when recovery was established. 5. That an increase of seventeen pounds in weight coincided with this great lessening of excretion and cessation of the neurotic disorder.

In reply to Dr. Anstie, the author said the girl was taking a fair amount of meat, but no more.

Dr. BROADSENT said the first analysis was made just after

admission, and before she was acclimatised to the food of the Hospital. He thought chorea depended ou local change in the nervous system, as capillary embolism in the corpora striata. The quantity of urea would depend on the secondary effects of the disease.

Dr. Greenhow said the cause of chorea was not always the Dr. CHERSHOW said the cause of control was not aways the same. He thought it sometimes depended on the general con-dition of the system. He was now attending a child, belong-ing to a very nervous family, whose brothers had suffered from the disease at the same time of life.

Dr. H. Fagge asked how Dr. Broadbent's theory would fit into the fact that chorea so often follows nervous shock, as frights in children, and so on. It was a curious fact that chorea was very rare in idiots.

Dr. BROADBENT said he only referred to the seat of the dis-

ease: the lesion was not always the same.

Dr. Anstie asked the relation of site and heredity. Dr. Buzzard mentioned the case of a woman who was frightened whilst pregnant, and became the subject of tremor. When the child was born it had hemilateral chorea.

Dr. H. Jones said that Gairdner narrated the case of a girl

117. 13. JONES SHILL THAT CHARMER HARTHER HARTHER LINE GREEN OF A BIT WHO TOOK A VEY JARFE GOOD OF CHORAL. It nearly killed her; but the chores from which she had been suffering was gone. The Plazzinsers said the chores of rheumatic children did well with rest and food. He considered the mode of baking food important; generally it was botted. The horizontal posture was a good thing. The disease was common at about the age of 15. It sometimes assumed an emotional form, and then

occasionally proved fatal.

Dr. Broadbent read particulars of two cases of Paralysis of the Soft Palate, resembling diplatheritic paralysis. The first, the Soft Painte, resembling diplitheritic paralysis. The first, as boy aged 3, was brought as an out-patient to St. Mary's Hospital on September 10, 1866. In July a bucket of water had been thrown over him, and he had had a cold and sore-Afterwards the voice was noticed gradually to become nasal and articulation imperfect, and for some days all fluids nasal and articulation imperfect, and for some days all fluids taken had returned through the nose. He was also weak on his legs and liable to fall. The soft palate was pale, flabby, and motionless. The medicine ordered was cod-liver oil and steel wine; sulphate of strychnine, one-sixtieth of a grain; with dilute phosphoric acid, five minims, in water, three times a day. The improvement was rapid, and on October 27 the patient was quite well. In the second case, that of a girl aged admitted out-patient May 23, 1870, there was not only paralysis of the soft palate, but also loss of power in the laryn-geal muscles, and great weakness of the lower extremities. The voice was nasal; fluids returned through the nose, and there was danger of suffocation when solid food was swallowed. When she spoke, a great rush of air preceded the production of sound, showing the imperfect adaptation of the vocal cords; and when the fauces were irritated, there was noither sensation and the treatment was similar to that adopted in the previous case, and recovery took place, but much more slowly. The patient was discharged on August 29. These cases were in many respects, if not altogether, similar to the cases of paralysis following diphtheria, and the interest attaching to them relates to the question whether paralysis of this character is a specific disease or a form of nervous paresis capable of being produced by other acute disease, or by debilitating influences generally.

Dr. H. Weder had three times observed paralysis following

Dr. H. Weber had three times observed partial from the begin-angina; not immediately, but after a fortnight from the beginning of the inflammation. It began with changed voice. The patient recovered with tonics. He had also observed paraplegia

patient recovered with torness. Let make any con-follow plearon-penumonia.
Dr. Situvan said he had at present under his care a case some-what related to that narrated by Dr. Broadbent. The patient came into the out-patient room, walking with difficulty, yet guite able to more his feet; he took off his hat, and sat down. His face had a curious expression, being slightly drawn to the right, and the muscles about the mouth so paralysed that the saliva dribbled from his mouth. He had ptosis of the right eyelid, and there was dilutation of the right pupil. Being asked a question, it was found that he could not speak; and on further examination, it turned out that he was quite unable to swallow. His palate was paralysed, and his tongue could hardly be protruded beyond the teeth. He was admitted an in-patient, when it was found that he had no power of retaining his urine, although there was neither paralysis nor ances-thesia of the lower extremities. He was fed by the stomach-pump, and he has now somewhat improved, and can swallow imperfectly, but cannot, though perfectly intelligent, utter a word. There was antecedent right hemiplegia, and a history giving suspicion of syphilis. This case was allied to those described by Trousseau as labio-laryngeal, but was not progressive in its nature.

Dr. Facor had seen paralysis follow non-specific inflammation of the throat-one under the care of Dr. Barlow, another under that of Dr. Wilks. Dr. Ansrie remarked on the frequency of throat affections,

and the rarity of paralysis. He had seen it follow numps.
In reply to Dr. Gull, Dr. BROADBERT said he had not

examined the mobility of the chest walls.

Dr. Gull said he had the fortune to write the first paper on diphtheritic paralysis published in this country. Ho had seen the paralysis without the diphtheria. In such cases the spinal cord simply looked anomic, so that one could hardly distinguish the white from the grey matter.

ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

SATURDAY, FEBRUARY 18.

Ds. Daurr, President, in the Chair.

ADJOURNED DEBATE ON SPREAD OF PARASITIC DISEASES BY SEWAGE.

(Concluded from page 238.)

Dr. LETHERY said: I do not know that I should have troubled you with any further observations on this subject, seeing that I made it a subject of special inquiry last year, if it were not that the question is still either misunderstood or not at all appreciated; as shown by the remarks, for example, of Mr. Holland, about fluke from sewage. The observations of Mr. Michael, at the last meeting, with respect to the crawling of entozon up the atems of grass, etc., showed, beyond all doubt, that although at one time a member of our beyond all doubt, that sutrough at one time a memoer of our Profession, yet he is at present profoundly ignorement of large and is, perhaps, better entitled to be heard in his new profos-sion which he has adopted than in the old which he has abandoned. So, again, the editorial remarks of the Lancet, when discussing Dr. Cobbold's paper, are, to say the least of them, puerile in the extreme, and show a total inability to appreciate the most striking factor of the case; for the arguments are founded upon the present condition of things, rather ments are founded upon the present condition of things, rather than upon the fatures, appoining sewage to be largely used for the fatures are supposed to the suppose of the con-who profess to be authorities on the subject, as Mr. Bailey Deston and Mr. Hope, are manifestly seperficial in the extreme. Mr. Bailey Denton, for example, who is a great advocate of sewage irrigation, which was reed last year to the farmers at Maidstons, that the plan adopted had year to the farmers at Maidstons, that the plan adopted by Lord Essex, Mr. Mechi, and others, is objected to, among other reasons, because " it covers the stalk and surfaces of the vegetation with clinging sewage, which has been made a good deal of, in consequence of its having been said—though without proof-that parasitic diseases are communicated by the deposit of sewage on plants consumed by cattle." Mr. W. Hope also, in a recent letter to the Chemical News, disposes of the thing in just the same casy manner, by saying that he does not agree with Dr. Cobbold in his peculiar views, because he (Dr. Cobbold) has not a single fact to adduce in support of them. Now, these are rather bold assertions, considering what them. Now, these are rather toold assertions, considering what amount of experimental proof has already been addinced of the way in which these parasitic diseases are mutually propagated by man and animals—how tapeworm, for example, has been produced in man by his cating measly meat, and measly meat in animals by their eating the ova of tapeworm. Let us, however, review the broad facts of the question. 1. Parasitic Discarse of Man are not by any means rare.—This is established by abundant proof, obtainable in practice, in the dead-house, and in our pathological museums; and many of these diseases are of a most formidable character-witness trichiniasis, bilharzia infection, hydatid, etc. 2. In every instance of such disease the actual cause of it is traceable to the food we eat or to the water we drink, or to the air we breathe, and to no other origin. 3. At present, the infection of such food or drink is really a matter of accident, for, to take the case of tapeworm in ourselves, although thousands upon thousands of ova are discharged from the infected human body, yet few of them, comparatively, get mixed with the food of animals to produce the measle of pork, of veal, or of mutton. 4. But make this more certain, as is the case in Ireland, where the habits of the people

and of the pigs are more intimately connected, and the disease becomes more common.

5. But what must be the condition of things if the certainty is still further realised, as by discharging fresh sewage upon the land where the fodder is growing, and irean sewage upon the land where the louder is growing, and where it will be either eaten at once by the animal or cut for green food? Thousands of pages in the form of Blue-books have been written by Mr. Chadwick and his followers to prove that the best way of utilizing sewage is to pump it to the land, and to distribute it over the growing grass by means of the hose and jet—the very grass, in fact, upon which the animals are feeding; and Mr. Mechi and others have testified before Parliamentary committees as to the greediness with which animals issuentiary committees as to the greedines with which almans a will feed upon the griss of meh irrigated ground. In the will feed upon the griss of meh irrigated ground. In the tapeworm lying upon the stalks of recently-cut rye grass and floating in the dirty efficient channels; and you will remember that every joint of the parasite contains thousands of owa, each once of which is capable of infecting an animal. What further proof, then, do we want of the danger of this practice? and is it right to disregard the plain teachings of experiment, and to wait for the terrible consequences which Mr. Hope and Mr. Bailey Denton, and the editor of the Lancet Mr. Hope and Mr. Balley Denton, and the editor of the Lancet evidently require as proof of the danger? 6. But why run the risk at all, seeing that, if it be necessary to utilise the soluble previous processes of precipitation, many of which are not only well suited for this purpose, but are capable of increasing the fertilising power of the miserably week sewage water, besides rendering the defecated effluent water sufficiently pure to be discharged into running streams when the land will not take the control of the control of the control of the theory of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the control of the same of the control of the control of the control of the control of the same of the control of the control of the control of the control of the same of the control of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the same of the control of the control of the control of the control of the same of the control of the control of the control of the control of the same of the control of the control question, there can be no doubt, as Dr. Cobboid tells you, that a general and profuse distribution of sewage must tend both directly and indirectly to the propagation of no inconsiderable number of parasitic diseases; and I think we are greatly indebted to him, skilled as he avowedly is in the theory and practice of the subject, for directing our attention to this important matter, and for declaring his opinion of it in so emphatics way, seeing that it closely oncerns the well-being our strength of the complete of the subject of the constraints of the complete of the complete of the complete of the constraints of of humanity.

Mr. HOLLAND said that, if such dangers existed, they would

long ago have been discovered at Edinburgh.

Mr. Mannino mentioned several cases of Edinburgh men

whom he had known, who had sustained great losses in cattle

Whom he med known, who may assessed the field upon the Craigininup meadows.

Dr. Stalland questioned the accuracy of the statement of Dr. Letheby as to buckerfuls of tapeworms having been seen on the meadows in question. Again, as to the state of the sewage farm at Aldershot, he had poid a visit to it, but had sewage narm at Austreasot, he had pead a visit to 11, but had not found it at all in the condition stated by Dr. Letheby. He agreed with Dr. Cobbold, that the matter ought not be left in the dark; but the thought that any danger likely to arise might be provided against. His belief was that, under a proper system, sewage irrigation could be made productive of good results.

Dr. LETHERY maintained the accuracy of his statements, and said that the reason why Dr. Stallard had found the sewage farm at Aldershot so different from what he himself had found it was because he (Dr. Letheby) went down on a Snnday, un-announced and unexpectedly. He found four or five regular outlets into the river were systematically opened when the land became clogged with sewage. Why was this waste if the sewage was so valuable? and why these outlets if the system was so successful? Dr. Letheby condemned the whole system in the strongest terms.

MEDICAL SOCIETY OF LONDON. MONDAY, JANUARY 30.

JOHN GAY, Esq., F.R.C.S., President, in the Chair.

THE PRESIDENT read a letter he had received from the chief ALLE CARRIDERT FROM a letter ne nag received from the chief Surgeon of the army of defence before Charenton, requesting a supply of vaccine lymph. The President had himself forwarded some lymph, and the letter having been forwarded to Lord Granville, had been acknowledged and referred to Colonel Loyd-Lindsay, that action might be taken in the matter

Dr. Peter Allen demonstrated to the Fellows his Method of Inflating the Cavity of the Tympanum. Dr. Allen's plan was an improvement on Folitzer's most invaluable appliance, sub-stituting a nasal pad, which is pressed against the opening into the nostrils, for the tubo which he inserted into one of them. This plan was an excellent substitute for the use of the catheter in the Eustachian tube, and formed a very successful method of treating deafness when the result of aural catarrh. The air was squeezed in from an elastic bag at the time when the patient swallowed a little water, and when, as the late Mr. Toynbee had shown, the Eustachian tube was opened by the act of swallowing. By this method both tympanic cavities were necessarily inflated at the same time; if there chanced to be a perforation of the membrana tympani, then air escaped

with a rushing noise.

Mr. PENNEATHER said he still preferred to use the catheter with an elastic tube. By Dr. Allen's process much air was lost in the cavity of the mouth, and the bag prevents the possi-bility of regulating the quantity of air admitted. He did not regard it as certainly proved that the act of swallowing opened the Eustachian tube, whereas the levator and tensor palati muscles, arising from the Eustachian tube partly, and ending in an expansion which goes to form the velum, that the air inspired by the mouth caused the velum to assume a horizontal position. When it passed through the nasal canals the velum became vertical; consequently, it did not require the act of deglutition to act on the opening into the tubes, as each act of inspiration altered the position of the velum, and therefore acted on the Eustachian opening.

Dr. Tillbury Fox said that he had been perfectly relieved by Dr. Allen's method of an attack of catarrhal deafness.

Dr. BEUNTON had described a method of inflating the tym-Dr. BRUNTON had described a method of miniming the sym-panum, in the Glasgoic Medical Journal, by using a masal tube and a bag which could be compressed by the patient at the same time that he performed the act of swallowing. Dr. Brunton

showed the Fellows this method.

Dr. Richardson showed an Apparatus for the Transfusion of Blood. First he alluded to the importance of attending to the details connected with this operation, especially the needle tube for introducing the fluid into the vein. The vein must not be laid bare, but incised with such a knife as the one shown to the Fellows, and then the tube introduced. For introducing the fluid no force should be used, hence all syringes were objectionable. Enough force could be obtained by simply elevating the vessel, as shown by Dr. Richardson. With respect to the agents to be used, the blood of a lamb was found to answer well; to keep it fluid, cold should be used, a temperature of 45' Fahr, being the right to maintain blood in a fluid state. Certain solutions added to blood will also maintain its fluidity, the best for this annea to thook will also maintain its fluidity, the best for this purpose being solution of ammonia in the proportion of twenty properties of twenty the properties of the pro blood could not be obtained.

Mr. BRUDNELL CARETE monthloned cases of the hemorrhagic diathesis where the blood seemed altered in composition; in one case it smelt very offensively. Might not transfusion of pure blood be used with benefit in these cases?

Dr. ROUTH thought that transfusion might be tried in cases of malignant fovers and other kinds of blood discase. Also to

restore cases moribund from asphyxia. Mr. Janez Hooc had examined carefully dried blood, and when mixed with water it was optically quite similar to recent blood.

The PRISIDENT thought highly of Dr. Richardson's apparatus. He asked if it was necessary to use an instrument solely for opening the vein. He had seen valuable time lost on one occasion from the injecting tube being passed by the side of the vein instead of into it.

Dr. Evans inquired as to Dr. Richardson's experience of injections in cases of cholera.

Dr. Riccannoso, in reply, said that Hook had showed befere the Royal Society long ago how apenyxiated animals could be restored by the injection of arterial blood. He had used sains injections in sixteen cases of choiers. The effect was sains injections in sixteen cases of choiers. The effect was traffy minduless. One partient sait up and conversed, but as truly infractions. One patient sat up and conversed, out as soon as this stage of reaction was established the purging returned, and the patient died. Dr. Richardson wished he could find some medicinal substance that might be injected with the saline solution as a cure for the disease. He disagreed entirely with those who said venous blood was to be regarded entirely with those who said volume should was to be recessary as as an exceenentificus matter. Venous blood is as necessary as arterial blood, and a certain amount of carbonic acid in the blood is essential for its arterialisation.

Mr. HENRY SMITH showed a small Speculum, a fragment of which had broken off, and remained in a patient's rectum. The occurrence was quite recent, and Mr. Smith heped to hear of the fragment having passed per anum.

The PRESIDENT narrated a case of Strangulation of the Intestine relieved by mechanical treatment. A young man, aged 27, had symptoms of intestinal obstruction, with ster-coraccous vomiting, and pain in right side of abdomen. Intestinal constriction by a band was diagnosed, and, the patient being held for a time head downwards, had the abdomen well kneaded by Mr. Gay. After this procedure, the vomiting ceased, and in seven days more the bowels acted in a natural way. The man died of phthisis six weeks later, but no persuasion would allow a post-mortem to be permitted. The President drew attention to intestinal strangulation by means of bands in 1856, in a paper he had read before the Medi-cal Society, when he had collected 120 cases. The band was usually found to be a loop of the mesentery, and generally on its right side. There was no external tumour, no tenesmus, or history of stricture.

OBITUARY.

DR. JOHN ADDINGTON SYMONDS.

THE Profession has sustained a great loss in the death of Dr. J. A. Symonds, F.R.S., of Clifton, which sad event occurred on Saturday last at his residence, Clifton-hill House, in his 64th Saturacy last at ms residence, Culton-inii House, in his 64th year. His illness, which commenced in July of last year, is ascribed to excessive study. He was educated at Magdalen College School, Oxford, and graduated at Edinburgh as M.D. in 1828. He was subsequently elected a Fellow of the Royal Society of Edinburgh, and in 1857 became a Fellow of the Royal College of Physicians in London. Dr. Symends was Honorary Consulting Physician to the Bristol General Hospital. In 1839, he delivered the annual address in Medicine at the general meeting of the British Medical Association, and in 1863 he filled the office of President of that distinguished body. He was elected Member of the Royal College of Physicians in 1853, became a Fellow of the College in 1857, and in the following year delivered the Gulstonian lectures, taking as his subject "Headache." He also delivered an exceedingly able and exhaustive lecture on "Death by Chloroform" before the Harveian Society. In this he declared that the action of chloroform might prove fatal on the heart before it sensibly affected the lungs, and therefore considerable caution was necessary on the part of the Medical man in administering it. The printed contributions to Medical science by Dr. Symonds were numerous contributions to account scene of y 1r. Symonas were aumorous and the Modern and Thysiology," papers for Tweedie a "Library of Medicine," "The British and Foreign and Modern and Modern and Foreign and Modern a He, at a comparatively early period of his Professional career, was the Lecturer on Forensio Medicine at the Bristol Medical School, and subsequently on the Practice of Medicine at the same school. He was the author of some distinguished works. including lectures on "Apparitions," on "Beauty," and on "Waste;" and whilst his intellectual qualities were so high, there were few men of more amiable or benevolent disposition, or more courteous and considerate. He was a native of Oxford, where his father was a Surgeon, and he leaves a son and three daughters—Mr. John Symonds (Fellow of Magdalene College, Oxford), Lady Strachey (of Sutton Court, Somerset), Mrs. W. Cave (of Clifton-park), and Miss Symonds.

SMALL-POX .- A case of this disease occurred on board the ship Carlisle Castle, about two months before her recent arrival at Sydney from London.

SHAMEFUL! - "BRACE-MAKING IN ST. LUKES."-Nearly all the braces worn by the gentlemen of England are made in St. Lukes; they are the specialité of the district. The payment is 2d. per dozen pair-the needlewoman finding her own cotton at a cost of three-farthings. A dozen and a half pair may be made in a day by dint of resolution, so that when the cotton is paid for there will be within a fraction of 2d. clear earnings for the industrious. Clear earnings! Not quite. Seeing that the work has to be done in courts and alleys where the sun that the work mas to econe in courts and aneys where the sun nower, and daylight seldon, penetrates, there is artificial light to be paid for—generally oil at 24d, the half-pint. How do they live? "On a ha'porth of tea, a pen'orth of hr ad, and a farthing's-worth of dripping." Such is the day's me-l, earned before it is caten.

MEDICAL NEWS.

APOTHECARIES' HALL.—The following gentlemen passed their Examination in the Science and Fractice of Medicine, and received Certificates to practise, on Thursday, February 23, 1871 :-

Bradley, John Perry, Birmingham. Drew, William Thomas, Stoke-on-the-Wold. Portham, John William, Stepney. Moore, Arthur Jackson, Debenham, Suffolk. Reed, James, Stoke, Devonshire. Williams, Henry, Gloucester.

As Assistants in Compounding and Dispensing Medicines:-Margetson, James Francis, Aylsham, Norfolk. Turtle, James Henry, Chatham, Kent.

The following gentleman also on the same day passed his First Professional Examination:—

Spencer, Edward Richard, University College.

NAVAL MEDICAL DEPARTMENT .- The following are the names of the successful candidates who passed the recent competitive examination for admission into the Medical Service of the Royal Navy, held at the University of London between February 20 and 27th, in the order of merit in which they passed, and the number of marks obtained:—

		Marks
Thomas Harvey, Westminster Hospital		1770
William Algeo, Boyal College of Surgeons, Ireland		1720
Michael Kearney, M.D., Queen's College, Cork		1515
John Lyon, M.B., Glasgow University	***	1365
William Brown, Carmichael School of Medicine, Dublin	***	1340
John Tyndall, Royal College of Surgeons, Ireland	***	1340
Matthew Reed, M.D., Queen's College, Galway		1315
Alexander Richard Joyce, Royal College of Surgeons, Irel	and	1255
Charles Atkinson Rathborne, M.D., Queen's College, Galway		1245
Thomas Power, Queen's College, Cork	***	1225

BIRTHS.

OWES.—On February 24, at 354, Kingsland-road, the wife of Alex. Fowne, jun., M.R.C.S., of a son.

HARDY.—On February 23, at 21, Fitzroy-square, W., the wife of H. Nelson Hardy, M.H.C.S., of a daughter.

LITTLEWOOD.—On February 27, at 3, East Circus-street, Nottingham, the wife of J. Littlewood, M.R.C.S.E., of a son. YALL.—On February 28, at West Hartlepool, the wife of Dr. Lyall, R.N., Staff Surgeon H.M.S, Triaconales, of a son.

Monceron.—On February 22, at Brenchley, Kent, the wife of William Monckton, Surgeon, of a son.

NIGENY.—On February 23, at 9, Military-road, Colehester, the wife of H Nugent, Army Medical Staff, of a son.

SHEPHERD.—On February 26, at 33, King Henry's-road, South Hampstead, the wife of Frederic Shepherd, Sunreon, of a son. STEDBAX.—Recently, at Great Bookham, the wife of Arthur Stedman, M.R.C.S., L.S.A., of a son.

YEALE.—On February 20, at Hampsthwaite, Yorks, the wife of R. S. Veale, M.D., of a son.

WATERWOITH.—On Pebruary 25, the wife of Dr. Waterworth, of New Kent-road, of a daughter.

MARRIAGES.

BARRE-Wise.—On February 21, at 8t. Margaret's Chuich, Flumstead, John, third son of the late Thomas Barker, Eeq., of Wanstead, Essex, to Annie, only daughter of Thomas Wise, M.R.C.S., of Groevenor-villa, Flumstead.

HOLMES—GUIVER.—On Februar, 18, at St. James's Piccadilly, William Townsend, youngest son of the late Joseph Holmes, M.R.C.S., to Emma, widow of the late Heary Guiver, of Ipswich.

widow of the late Henry Guiver, of Ipwich.

Line—Barris.—On February 18, at the English Embasy, Alexander Addison Lind, of Custon, Unine, to Flowrose Englis, roungest daughter Addison Lind, of Custon, Unine, to Flowrose Englis, roungest daughter Oboses—Coverns.—On Pedruary 1, at Dulan, Floridary, the Rev. John O. Orger, M.A., Chaplain at Dulan, Ito Marion, widow of the late William Colley, bursteer-of-the, and youngest daughter of the late William Colley, bursteer-of-the, and youngest daughter for the late College Shaw —On February 1, at Deriot, Micha, T. S.A., William Albert, second activities on of the late George Shaw Rutherford, M.D. R.Y. of Lendon, to Fannis, edots daughter of Francis Shaw, Ed., of William Colle, Deribythic.

SHITH—WHITE.—On February 21, at St. Olave's, York, Charles Smith, Surgeon, Halifax, to Mary, oldest daughter of the late Edward White of Bootham, York.

ORDINAL, TOTE.

FORTHAM—STITL.—On February 21, at the Old Church, Brighton, Peter Duiney, son of the late Mr. George Stonham, of Ashford, Kent, to Caroline Margaret, younger daughter of the late Dr. Gavin Smith, of Rottingden, Sussex.

DEATHS.

BANKISTEE, MARY ANN ATKINSON, widow of the late John Bannister, Surgeon, at Havant, on February 22, in the 84th year of her are. CJWARD, SIRELLA, widow of the late Charles T. Coward, M.D., of Exeter, at 28, Canterbury-place, Lambeth, on February 23, aged 70,

- Evans, Thomas James, Surgeon, at his residence, Brondeg, Briton Perry, on February 18, aged 35. HEYWARD, GRORGE PROVOST, Surgeon, at his residence, C a maill, Engle-
- field-green, on February 22. neu-green, on retrusty 22.

 Jenn, Elizaneru, sister of the late W. H. Jodd, Surgeon-Major of the
 Sects Fusilier Guards, and niece of the late Jicury Penton, em., Eu-,
 OBERTS, WALTER MARY, son of the late John B. O'Byren, Eag., M.D.,
 at 28. Third-grove, South Kensington, on February 24, aged 8 years
 and 3 months.

BIGHARDS, FREDERICK WILLIAM, M.B., F.R.C.S., at Winehester, on February 23, aged 29.

SYMONDS, JOHN ADDINGTON, M.D., at Clifton, Bristol, on February 25, aged 63.

TAYLER, MARY, the wife of Christopher Tayler, Surgeon, at Trowbridge, Wills, on February 25, aged 54. Wits, on February 25, aged 54.
TRONFSOR, ISABELLA, daughter of the late Dr. H. Thompson, at Hadley
House, Hastings, on February 24, aged 48.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession. made, and the day of election (as far as known) are stated in succession.

BREMINDIAN (PARISH OF)—Medical Officers wanted for fire districted of this parish. Candidates must be duly qualified and registered. Applications and testimonials to be addressed: "To the foundiant of the Foor Of Birmingham," on or before March 15. Election on the 22nd inst.

or Diffusionan," on or before March 15. Eaction on the 27th inst.

Braddood Diffusionary and Diffusionary.—Resident Medical Officer; must have both Medical and Surgical qualifications, and be registered. Applications and copies of testimonals to the Secretary, on or before March 10. Election on the 17th.

March 10. Election on the 17th.

Dissilat Vision.—Medical Officer for District No. 3. Candidates must have the qualifications prescribed by the General Orders of the Poor-law Board. Applications and testimonials to G. Wenden, Clerk to the Guardians, on or before March 15.

ERMINITION UNION.—Medical Officer; must be duly qualified and registered. Applications and testimonials to F. D. Drilk, Hon. Sec., Smithstown, Ennistymon, Ireland, on or before March 8. Personal attendance of candidates will be required.

or candidates will be required.

Hospital ros Woses, Sono-square, W.—Assistant-Physician; must be a graduate in Medicine of some recognised University, and be M.R.C.S. Applications and testimonials to H. B. Ingram, Secretary, on or before March 18.

KRET COUNTY OPHTHALMIC HOSPITAL.—Consulting Surgeon; must be duly qualified. Applientions and testimonials to R. Pearson, Esq., Secretary, Maidstone, on or before March 18.

KNIGHTOR USIOR, RADROSSHIRE.—Medical Officer for the Brampton Brian
District. Applications and testimonials to E. H. Deacon, Clerk to the
Guardians, on or before March 15.

LORDOR FRYER HOSPITAL.—Assistant-Physician. Applications and testl-monials to the Secretary, at the Institution, Liverpool-road, on or before

METROPOLITAN FREE HOSPITAL. - House-Surgeon. Applications and tesonials to the Committee at once.

ROYAL SURREY COUNTY HOSPITAL.—Assistant Honorary Medical Officer.
Applications to the Rev. C. R. Dallas, Farncombe Rectory, Godalming,
on or before April 27. St. Mar's Hospital Medical School, W.—The Chairs of Chemistry and Practical Chemistry are now vacant. Applications and testimonials to J. G. Wilkinson, Secretary, on or before March 6.

J. U. Wikinson, Sceretary, on or before March 6.

SWARES. HOSPITAL.—Resident Medical Officer; must have both Medical
and Surgical qualifications. Applications and testimonials to the
Secretary, on or before April 12. Election on the 20th. The duties
will commence on May 1.

TULLANDER USION.—KILBEGGE DISPENSART DISTRICT.—Medical Officer; candidates must be duly qualified and registered. Applications and testimonials to M. M'Manus, Hon. Sec., Kilbeggan, on or before March 13. Personal attendance of candidates will be required.

Personal attendance of condidates will be required.
WINEX USEN.—Medical Office: and Public Veneziator for District of
WINEX USEN.—Medical Office: and Public Veneziator for District of
District Veneziator of the Condition of the

POOR-LAW MEDICAL SERVICE.

. The area of each district is stated in acres. The population is computed according to the last census.

RESIGNATIONS.

Existent Union.—Mr. John N. Headles has resigned the Fourth District; serva 12.80; population 2807; salary £55 per announ. New Headles has resigned the Fourth District; serva 12.80; population 2807; salary £55 per announ. New Headles has resigned to reach; population 450; salary £50 per announ. Serva 14.81; population 450; salary £70 per announ. Particl; area 14.981; population 450; salary £70 per announ. 1509; population 450; salary £70 per announ. 1509; per population 2509; salary £70 per announ. Particl 1509; per announ. APPOINTMENTS.

Bellinghau Union.—Daniel Heagerty, LR.C.P. Edin., LR.C.S. Edin., to too headles have been served by the Bellinghau Union.—Daniel Heagerty, LR.C.P. Edin., LR.C.S. Edin., to too headles have been served by the Bellinghau Endo. The Bellinghau Endo. The Bellinghau Endo. Headles Edin.—What Stanger, F.R.C.S. Eag, L.S.A., to the North-Particle Endo. What Stanger, F.R.C.S. Eag, L.S.A., to the North-Particle Endo. Mr. Edin.—What Stanger, F.R.C.S. Eag, L.S.A., to the North-Particle Endo. Headles Endo. Mr. Ed. Stanger, Ed. S.A., to the Walton Mr. Edinson Headles Endo. Mr. Ed. St. Ed., to the Walton Mr. Edinson Headles Endo. Mr. Ed. St. Ed., to the Walton Mr. Edinson Headles Endo. Mr. Ed. St. Ed., to the Walton Mr. Edinson Headles Endo. Mr. Ed. St. Ed., to the Walton Mr. Edinson Headles Endo. Mr. Ed. St. Ed., to the Walton Mr. Edinson Headles Endo. Mr. Ed. St. Ed., to the Walton Mr. Edinson Headles Endo. Mr. Edinson Headles End

West Derby Union .- Richard B. Reid, M.R.C.S., L.S.A., to the Walton

THE LEVÉR.—At the lovée held on Saturday at St. James's Palose by his Broyal Highness the Prince of Wales, on behalf of her Majesty, the following presentations were made: —Surgeon F. Bramby Bake, Greender Ganach, by the Field-Mar-ball Commanding-in-Chief. Dr. Burrows, on appointment as Provision Extraordinary to her Majesty, by Six Henry Heland, Bart. Dr. E. S. Gleveland, Surgeon Mulras Army, by the Sirectory of State. Assistant-Surgeon Grav. Rilled and Bart. Dr. E. S. Gleveland, Surgeon Mulras Army, by the Sirectory of State of States and States of States of Provision of Provision of Provision of States of States and States and States of Provision of States and States and States of Provision of Provision of States of States and States and States of Provision of States and States

A VACANCY in the Medical staff of the Brompton Hospital has been created by the resignation of Dr. Burdon-Sanderson, M.D., F.R.S.

We hear that Mr. Arnott, of the Middlesex Hospital, has not applied for the present vacancy in the Surgical staff of St. Thomas's Hospital, as stated by a contemporary.

WITH pleasure we learn that eight Assistant-Surgeons of the Royal Navy are shortly to be promoted to the rank of Surgeons.

THE Army Medical Department is immediately to be increased by between thirty and forty Assistant-Surgeons, while a further addition will, it is expected, be made in the number of officers in September next.

The Poor-law Commissioners have declined to sanction a proposed arrangement for the relieving officers of the Woolwich Union to act as vaccination inspectors, and consider that some person should be appointed specially for that duty.

We understand that the next meeting of the Hunterian Society, on the 8th inst, will be devoted on all discussion on the subject of "Small-pox and Vaccination." The Society meets at eight o clock at the London Institution, Finshurycircus, and members of the Profession interested in the subject are invited to attend.

On Tuesday last, a boy, named John Wardle, 7½ years old, the son of a policeman, at Stonley, died from the effects of a dog-bite, received on January 14. The child went to school, as usual, till Saturday last, when he first complained of being

unwell.

Dil. George Buchanan has been presented with a handsome clock in bronze and marble by the students attending the Foular Anatomy Class in Anderson's University, and the students of the foundation of the students of the foundation of the f

AT the Glasgow Police-beard, on the 27th inst., the Heath Committee submitted a report recommending that, during the existence of the present epidemic of small-pox, four places should be opened in different parts of the city, in order that opportunities might be given for the vaccination of children and others who might desure to adopt this precaution; the children and others who might desure to adopt this precaution. The report was adopted. Mr. I've station of a Medical officer, the control of t

DR. H. CHARLTON BASTAN will read a paper on "The Mode of Origin of Bacteria, and on the Bearings of this Subject upon the Sciences of Modiline," at the next meeting of Subject upon the Sciences of Modiline, to the next meeting of the Company of t

VACCINATION.—With a view to enforcing the provisions of the Vaccination Act, a house-to-house visitation is to be made by the local authorities in Peplar.

ROYAL COLLEGE OF SURDEDSS.—At a meeting of the Council on Thursday, the 2nd inst., Mr. William McCormac, of Grosvenor-street, Grosvenor-square, was admitted a Fellow of the College, and the following gentlement were elected of the College, and the following gentlement were elected to the contract of the College of the C

1826; and Henry Weslas, of Mariastapio, Devon, July 1, 1836, Mr. Sadurt, Solatz, F. Jilks.—This gentleman, who institution with which he had been so long connected, has also resigned his seat as an Examiner at the Royal College of Surgeons, to which he was elected in 1807. Mr. Solly, whose health has been very indifferent, is now, it is hoped, owing to perfect reaf and relaxation from all Poriosional pursuits, much Connectle, and the Connectle of the Policy and Policy and Policy and Connectle, and the Policy and Policy and Policy and Policy and Connectle, and the Policy and Policy and

SMALL-POX ABOARD SHIP.— The vessel Ranger Lorsing, from Belgium, arrived in the Type on Tuesday last with a number of bad cases of small-pox on board. It may be asked—Were the infected passengers allowed to land?

as ascel—were the microcar passenger shower to minor.

SMAL-POX.—A correspondent, "H. P.," sends us the following sessipt for propagating small-pox.—"Discharge a patient who is without a home from the Small-pox Hospital into different casual wards for several nights; then, after also has been wandering about the streets during the day and resting on thore-steps at night, take her into custody, lock her in a police-cell, in the morning take her into court, sentence her to fourteen days imprisonment, and send her to the Westminster Prison, where the patient is now undergoing her sentence, but is yet capable of communicating the discase,"—Times.

THE LATE DR. THOMAS L. EVANS.—The Neath Board

THE LATE DR. THOMAS L. EVANS.—The Neath Board of Guardians, at their last meeting, passed the following resolution, and directed their Clerk to forward a copy of it to the widos:—"That this Board greatly laments the promature death of so good and considerate a Medical officer as the late Dr. Thomas Lewes Evans, and they desire that the expression of their deepest sympathy for his family be conveyed to Mrs. Evans."

THE ROYAL ASYLUM OF THE ST. ANNE'S SOCIETY.— The Council have altered the rules so as to allow of the appointing of two Honorary Physicians instead of one, and Dr. William Millar Ord has been appointed jointly with Dr. John William Ogle.

A GIFT IN ÉMBRYO.—We hear of a gentleman who is ready to expend some £30,000 in the crection of a lumatic asylum, to be given to the country, for the advantage of the lower middle classes, so soon as le can hit on the best mode of obtaining a model design.

AN ANIMAL SANITARY INSTITUTION.—The Senate of the University of London are in treaty for the purchase of a site of land in Batter-sea-fields, for £1200, for the purpose of the "Brown Trust," and upon which to erect a suitable animal institution.

COTTAGE HOSPITAL, STAFTEBUERY,—Mr. Corby's design for the Cottage Hospital, as a memorial of the late Marquis of Westminster, has been selected. The Hospital will be creted near the public walk, and will overlook the park and valley of Blackmoor. The site is the gift of the Dowager Marchioness of Westminster.

DEATH OF PROFESSOR ROSSIONOL—Dr. Hippolyte Rossignol, Professor of Legal Medicine, Toxicology, and Operative Medicine in the University of Brussels, has recently died in his 55th year, worn out by disease of the liver and heart, which first made their appearance two years since, after a dissection wound. His investigations on the structure of the lungs and on the pathology of asthma are well known, improvement.

SULCIDE BY CARBOLIC ACID.—An inquest has been held at Liverpola upon the body of John Perkins, a brush-maker, 40 years of ago. The deceased had lately been in low spirits, and rambled in his talk. On the evening of his death he went to bed after supper. His landhady, hearing the sound of a full, went upstairs, and found him lying on the floor in a dying state. There was a very strong smell of carbelle acid; she found a half-juh bottle, with a little in it, on the table, and a tumbler smelling very strongly of the acid. The bottle was a truth of the smell portion between the bottle was a mixture of carbelle acid, glycerne, and water, with impurities. Verdick accordingly,

A DRUGGIST FINED FOR SELLING METHYLATED SPIRIT WITHOUT A LICENCE.—On Monday, at the Huddersfield Police-court, Robert Robinson, chemist and druggist, Lockwood, was fined £12 10s. for selling methylated spirit without having a licence. The Supervisor of Excise stated that the defendant had been served with ample notice that he was not entitled to sell the spirit without having a licence.

A MINISTER OF HEALTH AND THE POOR .- The report of the Sanitary Commission recommends the detachment of the Health Department from the Home Office, and its associa-tion with the Poor-law Board, the two to be under the control tion with the Poor-naw Board, the two to be under the control
of a minister of health and the poor. Another recommendation,
we believe, will be the establishment in every district of a local
sanitary authority, the formation of a local board being compulsory in places having more than 3000 population. A consolidation of the Sanitary Acts is also one of the recom-

mendations of the Commissioners.

UTILISATION OF LONDON SEWAGE. -Some of the sewage of London is to be experimented with on the A B C process, which was condemned by the Sewage Commission. much deliberation, however, the Metropolitan Board of Works have decided to permit the "Native Guano Company" to creet works at the southern outfall, where 500,000 gallous of sewage works at the southern outsin, where oscious gainess of sewage will be acted upon daily. Recent alterations or improvements, it is now said, have added to the value of the measure; but whether the process is still entitled to be called "the A B C"—alum, blood and clay, or charcoal, er whatever it was—we do not know.

CHARGE OF MANSLAUGHTER AGAINST A UNION SUR-GEON.—One of the parish Doctors of Bethnal-green has been committed for "manslaughter" for alleged neglect. It was committee for "mansaugither" for alleged neglect. It was stated at the inquest that a poor woman was pregnant with twins. After the delivery of the first child he went away for several hours, during which the second child was born. The woman died two days afterwards. The Coroner informed the jury they could not obtain a conviction on their verdict, but they replied they would be sure of a full investigation of the matter, which might lead to the poor being more humanely treated. We have clearly not heard the whole of the case, and quote it as an instance of abuse of the powers of coroners' juries.

BRITISH MEDICAL BENEVOLENT FUND .- At the usual monthly meeting, held on Tuesday last, the committee granted relief to the extent of 60%, to nine applicants, while two other relief to the extent of two, to ame applicants, while two states cases were postponed for further inquiry. Two names were also added to the list of candidates for annuities. A special also added to the list of candidates for annutities. A special vote of thanks was passed to Dr. Thorne Thorne, whe has acted as Honorary Financial Secretary for the past three years, but retires on his appointment as Medical Inspector to the Privy Council. Mr. Charles S. Webber, F.R.C.S., has kindly undertaken the duties of the office vacated by Dr. Thorne. The following gentlemen have recently consented to assist the Lor notwing gentemen inter recently consented to assist the committee by acting as Honorary Local Societaries for their formation by acting as Honorary Local Societaries for their Yawdray Lush, Weymouth; Dr. J. Thompson, Bileford; E. Pye-Smith, Edg., Hackney, F. Salrman, Eq., Brighten; W. Bale, Esq., Stockport; H. Stear, Esq., Saffron Walden, QUEEN's HOSPITAL (BIRMINDHAM) EXTENSION FUND.

W. Due, Led, consport; H. Scer, Led, Sancon vinacen. Queen's Hospital (Birminglink) Extension Fund.

—A meeting of the employee at the "Metropolitan Railway Carriage and Waggon Works, Saltley," was held on Saturday last, in the mess-room, at which the following resolution was iast, in the mess-room, at which the following resolution was passed:—"That we, the foreman and workmen employed the 'Metropolitan Railway Carriage and Waggon Company,' do hereby concur with the proposal of the Workmen's Committee, to again assist in raising the workmen's fund, for the extension of the Queen's Hospital, and do hereby pledge our-selves to work one-quarter of a day on Tuesday next, February 28, 1871, the proceeds of the same to be presented to the 'Queen's Hospital Extension Fund,' and that the cashler be respectfully requested to deduct the same from each person's wages, and pay over the amount to the delegates appointed by

the workmen

MYSTERIOUS OCCURRENCE.—On Monday last, at the Police-court at Newnham, Gloucestershire, Mr. William Mason, a Licentiate of the Royal College of Physicians, Edinburgh, practising at Micheldean, and Henry Edward Coleman, an apothecary, were charged with the manslaughter of Ann Mason, wife of the first-named prisoner. Some time of Aun Masson, wite out the first-named prisoner. Some time the deceased died, and at the inquest Mr. Mason has brandy and water was administed by Mr. Coleman, and that brandy and water was administed by Mr. Coleman, and that she died forty-eight hugus afterwards. Several Medical gentlemen were examined, whose evidence went to show that there had been neglect on the part of both prisoners. A sister

of the deceased, who lived with the Masons, stated that they frequently quarrelled. After Mrs. Mason died, her husband frequently quarrened. After airs. Mason duct, nor nusoand tried to induce witness to keep some facts secret, threatening that if she did not, he would cut the body in two pieces, and that it would be buried in the cross-roads. The woman who laid out the body also stated that there were bruises on it. The prisoners were committed to the Gloucester assizes, bail

being refused for Mason. THE NEW YORK ABORTIONISTS .- We are glad to find. from the following paragraph in the Tribine, that our Trans-atlantic brethren are at last bestirring themselves to put down a system that, till recently, had become a public seandal in New York and other great American cities:—Michael A. A. Wolff, an abortionist in New York, was sentenced on Monday to seven years' imprisonment by Judge Bedford. The Judge said to the prisoner: "You are a well-known abortionist. A few days ago Justice Dowling instituted in this city a most admirable cays ago a bactor forming instituted in this city a most admirance system, to be practically carried out by Superintendent Kelso, as regards these dens of abortion, and the people may rest assured that the District Attorney and myself will, on all proper occasions, give every aid and assistance in driving these destroyers of human life from our midst. I wish it to be understood that the authorities, from this day, proclaim bitter war against all the abortionists in this city: and let them take it from myself that, be they rich or poor, male or female, on legitimate conviction, they will, irrespective of influences or of consequences, receive the same penalty which I now mete out

MEDICAL AMENITIES AT THE ANTIPODES.—A Medical man residing in Melbourne was lately favoured with the following choice specimen of epistolary composition from the

Resident Surgeon of the Geelong Hospital:-

"Geolong, December 14, 1870,
"My good friend, take my advice. Do not write any more
such paragraphs as lately appeared in Touchstone, in re the late
Rosina Outes. Epistaxis and circumorbital ecolymosis might follow. I am afraid that you will find the flexors and extensors of a British seaman rather tongher articles than you would care about contending with.

"Yours very truly, D. R. Reid. To which the gentleman addressed replied as follows :-

"In reply to a communication from a very vulgar person signing himself D. B. Reid, Dr. — desires to say that foolish threats of the kind contained in it are entirely wasted upon him. Dr. — s only reason for condescending to reply to the communication is, that the person may save bimself the trouble of sending any more letters of the same kind.

We may add that the gentleman to whom D. B. Reid addressed his extraordinary communication had nothing whatever to do with the article in Touchstone, a ribald pub-

lication that has now died a natural death.

COMPOSITION AND QUALITY OF THE METROPOLITAN WATERS IN FEBRUARY, 1871 .- The following are Dr. Letheby's returns to the Association of Medical Officers of Health :-

Names of Water	P to	LANG S	Nitre	ogen.	Hardness.			
Companies.	Total 8 Matt per Gall	Oxygen quired Organ	As Nitrates &c.	An Ammo- nia.	Before Boiling.	After Boiling.		
Thames Water Com-	Grains.	Grains.	Orains.	Grains.	Degs.	Degs.		
Grand Junction	21:63	0.112	0.125	0.006	16.0	4.2		
West Middlesex	21.96	0.076	0.118	0.005	16.0	4.3		
Southwark & Yaux-		0 010						
hall		0:074	0.110	0.003	16.0	4.2		
Chelsea		0.096	0.186	0.004	16:0	4.1		
Lambeth	20'87	0.081	0.010	0.003	15.8	4.0		
Kent.	28:39	0.004	0.512	0.000	21-9	.6.0		
New River	21:53	0:037	0.125	0.001	16.6	4'0		
East London .	23.89	0.070	0.162	0.003	16.8	416		

Note.—The amount of oxygen required to oxidise the organic matter, nitrities, etc., is determined by a standard solution of permangianate of potash acting for three hours; and in the exace of the metropolitan waters the quantity of organic matter is about eight times the amount of oxygen required by it.

the quantity of organic matter is about eight tunes are some or organically it.

The required by it.

The required by it.

The variety we fit was algobily ravided—via., in that of the Grand Junction, the Cheises, and the Lambelt Companies.

The average quantity of water supplied daily to the metropolis during the preventing month was, according to the returns of the Witer Companies.

The average quantity of water supplied daily to the witer to organize the preventing month was, according to the returns of the Witer Companies the prevention of the prevention of the water of the contract of the prevention of the contract of the contract of the prevention of the contract of the contract of the prevention of the contract of the contract of the prevention of the contract of the contract of the prevention of the contract of the contract of the prevention of the contract of the contract of the prevention of th

APOTHECARIES' COMPANY .- From the "City of London Directory "we learn the following particulars respecting this Society:—"The Hall is in Water-lane, Blackfrian. The Hall Society:—"The Hall is in Water-lane, Blackfrians. Inc man and Dispensary, founded in 1623, were destroyed in the fire of 1666, and rebuilt in 1670-6. Drugs are still dispensed to the public at the Hall. A chemical laboratory was also formed in 1671. Sir Haus Slone gave to this Company his botanical gardien at Chelsea in 1721-2. Charters: They were anciently gardens at thesea in 1/21-2. Unartens: incy were anciently part of the Grocers' Company, but by charter, December 6, 1915 (15th James I.), they were incorporated. Another charter was greated to them by 36th Charles II., January 29, 1685. An Act of Parliament was passed for better regulating the practice throughout England and Waise, 56th George III., practice throughout England and Wales, 55th George III, can, 194, 1815. By this Act, all poptheerairs and their assistants must be examined and certified by the Court of Assistants, before they can earry on their Profession. Upwards of 400 are examined annually. Their bye-laws were approved by the Lord Chancellor and Justices in 1818. Arms: Aimr-Apollo with his head radiant, holding in his fet hand a bow, in his right an arrow, all or : supplanting a serpent argent. Creston a wreath, a rhincorres statant proper. Supporters—two unicorns or: armed, crined, and hoofed argent. (Confirmed to the Company in 1617.) Fees Payable: Upon taking up the toe Company in 1011.) rees Payable: Upon taking up the freedom, by partimony, £2 10s.; by servicide, £2 3s. 6d.; by purchase, £105. Upon admission to the livery, £21 9s. 6d. Upon election to the Court of Assistants, £12. Charities: Widows Fund, given in several sums, at different periods, by different members of the Company, and being invested in 3 per centas, now amounts to £090. The interest is given annually in pensions to widows of the freemen and liverymen of the Comany. Twelve or fourteen receive £20 per annum. The selection is made by the Court of Assistants

MORE SNAKE-BITE CURES BY HALFORD'S REMEDY .-Two additional cases have recently come under notice illustrating the efficacy of Professor Halford's remedy for snake-bite. The first occurred on the Bass River, on November 1, at about 1 p.m., when a son of Mr. Patrick Guinlivan, of Bass River, aged 11 years, was bitten just above the ankle by a sanke. The punctures of the two poison-fangs were distinctly visible, with a little blood flowing from them. A ligature was applied, and about half a tumbler of strong spirits given in two doses. The symptoms increasing in severity, a piece of skin was removed from over one of the most prominent veins at the was removed from over one of the most prominent veins at the bend of the elbow, the point of the syringe carefully introduced into the vein, and about ten minims of prepared amnonia injected. The relief was almost instantaneous. Some time after, the foot being very painful below the ligature, this was removed, and additional poison entering the circulation, the removed, and additional poison entering the circulation, the worst symptoms of snake-poisoning returned—viz., total loss of power over the legs, cold clammy skin, and almost imper-ceptible breathing, while an occasional fluttering was all that could be felt of the pulse. Ten more minims were injected into the same vein. In two minutes the pulse could be again detected, a decided improvement set in, and by seven o'clock in the evening the boy was well, and laughing as heartily as anyone could wish. The other case occurred in Tasmania, and was reported in the Launceston Examiner of November 10. A shepherd in the employment of Mr. Williams, of Waterhouse, was severely bitten just below the knee by a large snake. All the symptoms of snake-poisoning set in, but the remedy was applied, and the man speedily recovered. He described the sensation caused by the injection of the ammonia to be that of

an electric shock passing through his frame. THE condition of the captives is not as bad as is generally supposed. They may suffer from the want of certain accustomed comforts, but that which most affects them is the absence of regular occupation. As almost all have been acabsence of regular occupation. As almost all navo een as-customed to active pursuits, as well as to the severe discipline of the army, their present forced state of idleness proves naturally anything but agreeable. Even the most indolently disposed, when the severe strain is taken off their energies, flad idleness after a while intolerable. Many, accordingly, and uneness after a while intolerable. Many, accordingly, seek such employment as can be obtained in the adjacent towns and villages. Curions to say, although there are amongst the soldiers many well-skilled artisans whose experience might be found useful in the German manufactories, those who are in general most successful in obtaining employment are the cooks. Let me hope that the ameliorations which they are capable of introducing into the German cuising will tend to the capanie of introducing into the terman entile will tend to the improvement of a system of preparing food which is neither palatable nor good for the digostion. I am glad to say that the Germans themselves show a lively appreciation of the benefits thus obtained; for, on several occasions, the authorities

with whom I dined asked me what I thought of their German cuisine, and on my expressing my approval of it, told me, with a smile of gratification, that the dinner had been prepared by one of the French prisoners.—Report made to the Executive Committee of the Society for Clothing the French Prisoners in Germany, by Thomas W. Evans, M.D.

Germany, by Thomas W. Erans, M.D.

LEAD AND LINT.—The use of lead instead of lint for dressing wounds is recommended by a French writer, who says that it feels soft and cool to the wounded parts, and that the formation of a very thin layer of the sulphuret of lead impedes

putrefaction.

CLEARING MUDDY WATER - Water contaminated CLEARING ALCIDY WATER.—Water contaminates simply with clay, but otherwise pure, may be at once clarified by adding very minute quantities of some salts of lime. Dr. Schlozing states that one part of chloride of calcium to 1000 parts of water effects this purpose in a moment; the nitrate, and caustic lime act in the same manner. The precipitated substance may be readily separated from the water by filtration, whereas the filtration of the water containing the suspended matter is very difficult, because the pores of the filters are choked.

NOTES, QUERIES, AND REPLIES.

Me that questioneth much shall leurn much .- Bacon.

Peter .- By reference to the Register.

Dr. Clarke (Tweedside, Barbadoes) .- Your letter, with enclosure, received with thanks

Embryo,-Address Dr. G. Murray Humphry, Cambridge. Silver, Bentley, or Henfrey, on Botany; Nicholson, or Milne-Edwards by Knox, on Zoology; Roscoe or Miller, on Chemistry,

Deserve Deserves

TO THE RETTOR OF THE RESTORATION OF THE RETTOR OF THE RETTOR OF THE RESTORATION OF THE RE

6, Wimpole-street, W., February 28.

. Mr. Sewill's communication refers to a trade announcement which appeared in the Standard-not as an advertisement. It is an outrage puff of a certain dentist, claiming for him to have been the first to administer nitrous oxide gas in this country, and praising his manufacturn of artificial tooth

N .- By consent of the party.

R. P.-There is no penalty for the offence.

L.R.C.P. can register the fresh qualification.

Melbourne.-The unseemly squabble between Drs. Neild and Reid is not creditable to either party. That it should have given occasion to a leading article in the Agr is to be regretted. Professional squabbles may afford food for scandal, and be amusing to the public; but they are invariably injurious to us as a body. If we have "dirty linen" to wash, we had much better "wash it at home."

TESTS FOR CARDOLIC ACID.

There was a continued to the continued of the continued o

Total.

Males. Females.

COMMUNICATIONS have been received from-

Evento; Mesers, Letter, Soy, and Co.; Mr. J. T. Purvis; X.; Dr. Frlce; Mr. J. Little; Dr. Gibbon; Mr. J. B. Cyrorsyns; Dr. Oule; Mr. J. F. Collinwood, Dr. Chies; Mr. Mr. Cattery Johnson; Dr. Barson; Jr. J. Fullthy; Mr. Stricker, J. Mr. Michard, Str. Mr. Mesers, Mar. Davis and Co.; Dr. Dav; Mr. Chatter); Dr. Lettiery.

BOOKS RECEIVED-

Moore's Australian Almanae and Handbook, 1871—The Nature of the Vital Force, by Dr. R. C. Shettle—Dr. Vintras on Some Advantages of Animal Vascination for the Prevention of Small-pox—The Ophthalmoscope in the Treatment of Epilepsy, by Dr. R. A. Vance.

PERIODICALS AND NEWSPAPERS RECEIVED-

Tharmaceutical Journal - Nature—Australian Medical Gazette—The Mel-bourne Age—The Dublin Daily Express—Western Daily Express— Hardwicke's Science Gossip, March—Monthly Microscopical Journal, March—Journal of Cutaneous Medicine, March—New York Medical

APPOINTMENTS FOR THE WEEK,

March 4. Saturday (this day).

6. Monday.

O. Monday.

Operations at the Metropolitic Property of the Mark's Hospital for Disease of the Botts Property of Pr

7. Tuesday.

Operations at Guy's, 13 p.m.; Westings, 12 Department of the Conference of Compliance, with Operation Linear Department of the Conference of Compliance, with Operation Linear Operation of Conference of Compliance, with Operation Linear Department of Conference of Compliance, with Operation Linear Operation Conference of Conference

8. Wednesday,

S. Wednesday.

Operations at University College Hopstal, 2 p.m.; St. Mary's, 11 p.m.; Middlesex, 1 p.m.; London, 2 p.m.; 8t. Marbiolenew's, 18 p.m.; 10 m.; 10 m.;

ROYAL COLLEGE OF PHYSICIANS, 5 p.m. Goulstonian Lectures—Dr. Gee, "On the Heat of the Body." Society of Ast's 8 p.m. Meeting.

9. Thursday.

Operations at 8t. George's, 1 p.m.; Central London Ophthalmic, 1 p.m.; Royal Orthopredic, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m.
Royal Instruction, 3 p.m. Dr. Odling, "Davy's Discoveries."

10. Friday.

Operations at Westminster Ophthalmic, 19 p.m.; Central London Ophthalmic, 2 p.m.; Royal Loudon Ophthalmic, 11 n.m. Concess of Times Crustical Society, 49 p.m.; Theory T. Bulley Fee, "Like T. Good of Times Crustical Society," 49 p.m. pt. Theory Fee, "Like T. Like," Concess of Times Of Removal of Tourise for Camers," Dr. Duffin, "Case of Bosecial Various of Times of Tourise for Camers," Dr. Duffin, "Case of Bosecial Various Crustical Ophthalmic of Society of Removal Countries of Programming Operation of Duffined Various Operation of Programming Operation of Programmi

VITAL STATISTICS OF LONDON. Week ending Saturday, February 25, 1870. BIRTHS.

Births of Boys, 1278; Girls, 1185; Total, 2463. Average of 10 corresponding weeks, 1860-69, 2165-2. DEATHS.

Deaths du Average o Average o Deaths of	f the	ten year	s 186	20-09 Particles FROM EPIDEMI DISTRICTS FROM EPIDEMI Light From Particles From EPIDEMI	14	1633 1496:0 1646					
DEAT	HS	IN St	JB-1	DIS	TRIC	TS	FRO	M I	EPIDI	EMIC	s.
		Popula- tion, 1961.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Typhus.	Enteric (or Typhoid) Fover.	Simple continued Fever.	Diarrhora,
West North Central		458125 618210 383321	20 78				11 9	7	1 7 9	1 2	2
East South		571158 773175		3	16		18 12	1	3	3	
Total		2903989	227	15	47	2	54	12	15	7	14

METEOROLOGY.

From Observations a	ıı	the	Gree	moi	ch O	bsers	rato	ry.
Mean height of barometer .								30 023 in.
Mean temperature								43.8"
Highest point of thermometer .								51.8
Lowest point of thermometer .								31-9*
Mean dew-point temperature .								38.3*
General direction of wind								W.8.W.
Whole amount of rain in the we	ec)							0°06 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, February 25, 1870, in the following large Towns:—

	ion in 1871.	Acre.	during eb. 18.	Peb. 18.	Ten	nper Lir (F	ature	Temp. of Air (Cent.		ain all.
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 1871	Persons to an A.	Births Registered the week ending F	Deaths Registered the week ending F	Highest during the Week.	Lowest during	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3259469	41.8	2463	1633	51.8	31.9	43.8	6:55	0.06	0.12
Portsmouth	125464	13.2	190	9.0	35.9	31 4	44.3	6'84	0.14	0:36
Norwich	81787	10-9	58			30.0		6:55		0.03
Bristol	173364	37:0								
Wolverhampton	74438	22 0	61	99	24.2	31.3	43.7	6.20	0.23	0:59
Birmingham	378574	48:3		0.40	54.8	33 6	44.7	7:06	0.49	0:48
Leicester	101367	31.7	82			29.5		6:50	0.01	0:18
	90480	45 3	49			28.7		6.89	0.00	0.0
	520225	103.0		450	54.3	35.2	44.4	6.89	0.12	
	379140	84.9	294			30.2			0.27	
	123851	23.9	99			30.0		6.89	0.58	
	148030	23.5	140			34.0		7:28	90.08	
	266108	15.3	182			34'0		7:28	0.08	
		11.5	183			321		7:17	0.00	0.15
	255247	38.0		1(6)	36 0	27.0	** 27	6:17	0.01	
	135195	31.5	88			21 0				
Newcastle-on-Tyne	103037		87			35 0		6.50	0.10	0.05
	136293	25.2				41'0			0:40	
	179944	40.6	127						0.31	
	477627	94.3	463			40.0			0.04	
Dublin (City, etc.+) Total of 20 Towns -	32232t	33.1	241	163	20.1	30.0	20 0	1 00	000	0 10
in United Kingd'm 7	11,0002	34'4	5541	9794	61 7	97:0	44.9	7.11	0.14	0.36
Paris-Week ending	1889642	98								***
lng Feb. tt Berlin-Week end-	622067	68								***
ing Feb. 25	800000	82					8	***		

in the week was 20 02 in. The hignest was 30 22 and the lowest was 20 00 in. on Monday morning and the wind was W.S.W.

and the lowest was \$700 in, on Monday movemen.

Note:—The population of Cittes and Boroughs in 1870 is estimated on the assumption that the increase since 1871 has been at the same annual reas a between the consumes 1834 and 1891; at this distant period, howing the contract of the cont

• The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probably be available before the middle of the year, and will then be substituted for these estimates.
• Inclusive of some suburbs.



CHOCOLAT-MENIER.

(Manufactured only in France.)

ANNUAL CONSUMPTION EXCREDS 5,000,000 lb.

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"COD-LIVER OIL JELLY" WITH "PEPSINE" AND "PANCREATINE."

Sold Retail in Hali-pint Jars, 2a. 1 Field, 2b. 6d. 1 Guarte, 6a. 6d. 1 Hali-pint, with Nyelson, 3a. 1 Hali-pint, with Durcratine, 3a. London Agents—Millarus and Sov. 44, Bartisen; 18. act. 278, GREAT, HOMER-depth. 1. Typicology. Worship-street, Finsbury-square; Evass, Soc. 2016, Agents—Millarus and Sov. 44, Bartisen; Rastary and Sov., Farringsbor-street; H. A. Thourson, Worship-street, Finsbury-square; Evass, Soc., and Co., Liverpol. (2016, Liverpol., and through all Wholeshel Blusses.

Prom Dr. JOHN ATTFELD) F.C.S. Professor of Practical Section of the Thomas and American Medical Section of "Committy—General Medical and Pharmaceutical Section of the Thomas and Pharmaceutical Section of the Section

ereby certify that every jar of Cod-liver Oil Jelly manufactured by me is identical in quality with that analysed by Professor Attfield .- JAMES

"Bollopy-street, Livrycol, ferjember 27th, 1870.—I have tried Mr. Agners'' Coldvey OR Jelly 'in the Royal Intimanary, Livrycol, and especially in those cases in which the patients cannot take Coldver Oil in the cases in the tat can be used without distinct yet of such cases, and consider It to be a very valuable addition to the Medical materials used in the restoration of health.—THOMAS INMAN, M.D. Lond, Thysician to the Livrycol Royal Informary."

"PALATABLE" COD-LIVER OIL, "PALATABLE" CASTOR OIL, AND "PALATABLE" COD-LIVER OIL WITH QUININE

ARE THE FINEST OILS,

So prepared as to be really pleasant to the taste, whilst their medicinal properties are not in the loast impaired. They can be assimilated when other kinds have been rejected.

From the MEDICAL TIMES AND GAZETTE, June 4th, 1870.

FIGURE OF MEDICAL TIMES AND GAZETTE, June 4th, 1870.

"In these preparations the Patentees have succeeded in making the foli not only platable, but casily retained upon the stomach without rising.

"In these preparations the Patentees have succeeded in making the folia not only platable, but casily retained upon the stomach without rising.

"In these preparations the Patentees have succeeded in making the first of the patentees have been described by the state of the state of the patentees have been described by the state of the patentees have been described by the patentees have been described b See also "The Lancet," June 18th, 1870, and Jan. 28th, 1871; "Medical Press and Circular," May 4th, 1870, and Dec. 28th, 1870; "British Medical Journal," Nov. 12th, 1870.

GEORGE W. FOX & CO.'S London Depot, 8, Bury-court, St. Mary-Axo, E.C.

MANUFACTORY, CITY-EOAD, MANCHESTER; and through all leading Wholesale and Retail Chemista.

Palatable Codd view Oil, 16, 28, 20, 28.1; with Qualine, 20, 64, a. M. Palatable Cater Oil, 64, 16.

SILVER MEDAL AWARDED 1867 .- JUROR 1862.

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MEDICINAL PEPSINE

[Fondre Nutritive, or "Pepsine Acide Amplacée" of the French Codex]
Contains the active digestive principle of the grastric juice, purified and rendered permanent and palatable. Dose—15 to 20 grains.

PEPSINA PORCI,

A concentrated and NEUTRAL preparation of Pepsine, free from any disagreeable tasts or smell. Dose—5 to 10 grains.

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PEPSINE LOZENGES. PEPSINE GLOBULES, PEPSINE WINE, Are convenient forms for the administration of Pepsine.

PHOSPHATES, ACCHARATED WHEAT A Dictetic Preparation, supplying an important deficiency in the ordinary Food of Invalids and Children.

Manufactured by T. MORSON and SON, Pharmaceutical Chemists, 81, 83, and 124, SOUTHAMPTON-ROW, LONDON, W.C.

ORIGINAL LECTURES.

ON TWO CASES OF VENEREAL DISEASE

ABSTRACT OF CLINICAL LECTURE DELIVERED IN THE LONDON HOSPITAL, PEBRUARY 28. By C. F. MAUNDER, F.R.C.S., Surgeon to the Hospital.

Case 1 .- A Lad, the subject of both Hard and Soft Chancres-Adenopathy-Rash-Reproduction of Soft Sores.

Case 2 .- A Young Man, the subject of Two Hard Sores - Adenopathy-Rash-Sore-Throat,

AFTER reading the history of the cases furnished by the dressers, AFTER reading the history of the cases furnished by the dressers, Mesers. Coleman and Fox, the lecturer proceeded: The first symptom that attracted our attention in the lad was phymosis; the prepuce was swellen and red, and could not be withdrawn. Now, phymosis may be congenital or acquired, and since it could be retracted a few weeks ago, its condition on admission must have been morbid, and it was for us to determine the cause. There was a discharge from the orifice. Whence came it? It might have arisen from a urethritis (gonorrhosa), from 15? It might have arises from a urethritis (genorrhoes), from balantis (inflammation of the mucous ining of the prepue and gians), from the surface of either soft or hard chances, or from an epithelial cancer. You will thus see at once the necessity for making a careful diagnosis. It probably did not come from urethritis, because it was rather seanty, and there was absence of scalding on mictartion; but it might have had its source in nay one of the other middles mentioned had its source in any one of the other middles mentioned the complex who do not wash, are liable to balantist from the complex of the composition of the secretion of the conformation arised as homogeneous transfer of the composition of the secretion of the conformations. odoriferous glands; chancres or cancer might be concealed The age of the patient was unfavourable to the presence of cancer, and no growth or induration of sufficient extent could be detected, but there was a patch of induration of small extent on the dorsal surface of the organ at the corona. You often hear me say, when in doubt about the nature of a sore, wither concealed or exposed to view: Examine the condition of the lymphatic glands associated with the region whence the lymph reseals come on which the sore is situated. We did so in this case—indeed, in both case—and found a most typical you, those patients are the subject of syphilis. Several glands in both groins were enlarged and prominent, but quite painless, feeling like nuts under the skin; the skin covering them was quite healthy, non-atherent, and the glands themselves moved readily upon the subjecent itsues. This is the seleopathy and the desired of the subject of the subject of the subject of the particular subject of the subject o either concealed or exposed to view: Examine the condition of gland becomes involved in conpexion with soft chancre, the signs are those of inflammation—an acute bubo, an admitis, results. There is, however, one source of error against which results. Ihere is, however, one source of error against which I must warn you: an adeequably may be paintil, and in rare instances suppurate, should the sore associated with it be in any way irritated, just as you see a gland become inflamed in the groin or axills in consesion with a source of irritation on either extremity. I was desired that you should have an opportunity of watching the consequences of contagion in these two cases, and also of verifying the diagnosis, and I purposely omitted specific treatment; no mercury was administered. It is a known fact that some form or forms of secondary spinis, generally rath or sore-threat, or both, manifests itself after the lapse of from six weeks to three months from contagion. We waited patiently, and by way of placebo painted the glands of one patient with iodine, and using a zinc lotion with a syrings to wash out the foreskin of the other, the subject of a discharge therefrom. I have told you why I avoided specific treatment in these instances, and np to the present time the patients have progressed favourably. The glandular swellings are greatly diminished; the seres, of which there were two hard on the skin of the penis of the one man, healed, and the induration is almost gone, while the sorethroat and rash, which appeared as we predicted, in due time, have, the former altogether, and the latter nearly, disappeared.

Nave, the former autogener, and the latter hearty, disappeared.

You just now heard the nan say he was "first-rate."

In the other lad, the induration diminished, and a ran's appeared and paled away. But another and very instructive feature arose, in the shape of two sores on the scrottm, at spow which would readily receive and lodge secretion flowing from within the prepuce. Last week we were able to withdraw the prepuce somewhat, and then discovered several soft suppurating

Vol. I. 1871. No. 1080.

sores on the glans and foreskin, and thus the origin of those on the scrotum was explained; but we found no hard sore. Happily, to-day, for the first time, I am enabled completely to are the glans and corona, and now we have on the same patient, easily appreciable, several soft sores and one hard sore, with the surface still abraded, but with its base hard and deeply implanted, and in the site of the induration which some deeply implanted, and in the site of the induration which some of you felt when the lad was admitted. You will come for-ward presently and examine these sores with the finger and distinction, which is not you will be the property of the distinction will be a superior of the property of the contain amount of hardness about the edges of the soft sores—and you know why. I am in the habit of using an alum lotion to soft chances, both to diminish secretion and so the risk of further inonlation and multiplication of sores, and also to harden the surrounding skin with a similar view. The hard-sores are bealing." With the use of the alum-wash, and the sores are healing.

I have treated these patients without mercury; but do not suppose for a moment that I do not value that drug in the treatment of syphilis. I am sure as one can be of anything mundanc, that, in many instances, mercury is essential to the dispersion of symptoms; and the above cases may yet have a redispersion of symptoms; and the above cases may yet have a re-lapse, and requires course of that drug. To are aware that most diseases (at any rate, in the young subject) have a tendency to the state of routine; but, on the other hand, do not estimate drugs too lightly. We shall keep an eye our these lads during the next fow months, and you will hear of them again. Treatence, I have already sullimed to this, and have stated

the special indication in the case of simple soft sores. At the present time, I am of the number of those who believe with Ricord in the unity of the syphilitic, but the duality of the chancrous poison—that is to say, that constitutional syphilis is a natural consequence of the hard and not of the soft chancre. We have been fortunate indeed in seeing the two kinds of sore, with some of their attendant consequences, exemplified on the same patient; but this very case might have tended to upset the above theory, had it been seen later. A hard sore will sometimes run its course without the patient having been aware of its existence. The enlargement of the glands, free from pain, often escapes notice, and a mild reab, causing no irritation, is observed only when the above symptoms have disappeared, and thus soft chancers may be accredited with infecting the system. Thus you see a hard it will not head without the administration of mercury, either in the abape of blue-pill, inneurion, or the mercurial vapour-bath; and blackwach is a useful topical application. Should the alum-wash appear unsuitable to soft stores, treat them on general principles. We have been fortunate indeed in seeing the two kinds of sore, pear unsuitable to soft sores, treat them on general principles.

ORIGINAL COMMUNICATIONS.

CONTRIBUTIONS TO THE PATHOLOGY OF THE PROSTATE GLAND.

By Dr. KRAUS.

In the course of my investigations concerning catarrh of the male urethra I have recognised the necessity of comprising the diseases of that enigmatical organ, the prostate. These I have had under careful examination several years, and I believe that the positive results which I have arrived at are deserving of being made more widely known. Of late these results have obtained such a degree of precision that they have frequently been favourably noticed by my honoured colleagues, who have not only confirmed the accuracy of my conclusions, but have supplied me with a wider field for investigation.

It may now be laid down as a rule, admitting of but few exceptions, that all diseases of the prostate take their origin in catarrh of the urethra or bladder. Also, the diseases of the seminiferous organs must, without exception, be referred to blenorrhagia of the urethra; so that, in future, what have been considered as sympathetic affections of the vesicule, the vasa deferentia, and the epididymis must be regarded as an extension of the blenorrhagic inflammation of the urethra. The fifteen or sixteen of the prostatic ducts, too, which open near the caput gallinaginis are affected with this catarrh when

the blennorrhagia extends to the prostatic portion of the urethra. In consequence of the entrance of large quantities of the catarrhal secretion, the gland becomes greatly swellen and enlarged. It would, indeed, be remarkable if those ducts, the office of which it is to discharge the prostatic fluid, should not participate in the general catarrhal process. The enlargement of the prostate about the twenty-fifth or twenty-sixth day of the blenorrhagia is solely attributable to the blenor-rhagic affection of its ducts. The considerable muscular elements which the prostate contains is kept, by means of the catarrhal irritation, in a state of constant contraction, inducing increased excretion from its ducts, and contributing to that large discharge from the urethra which is observed when the prostatic portion of this canal participates in the blenorrhagic process. I have exhibited the truth of this statement by injecting blenorrhagic matter into the prostatic portions of the urethras of five dogs, and finding, on making a section of the prostate twenty-four days afterwards, that it was loaded with secretion. Of the blenorrhagic inflammation of the prostatic ducts, and consequent enlargement of the prostate, there can be, then, no doubt. Even in catarrhal affection of the urethra, which to the observer does not seem to involve the prostatic portion, the prostate may still be swellen. This frequently occurs, too, in chronic catarrh of the bladder, when some of the secretion expelled from the bladder, and detained in the prostatic por-tion of the urethra, excites inflammatory action in the pros-tatic ducts. I possess two preparations in which the dendritie ramifications of indurated catarrhal secretion, like that observed in the bronchi in croup, are seen within the canals of the pros-These preparations confirm the observations that I had already made, that in catarrh of the bladder, owing to the loss of tone in the organ, the secretion becomes arrested in the prostatic portion of the urethra, and, subjected to pressure t is forced into the ducts. The cavity of the caput gallinaginis also becomes filled with the secretion, and from thence the catarrhal inflammation spreads along the ejaculatory ducts to the vesiculæ and epididymis.

I have, in a former work shown, by exact observation, that in several cases the copulative power becomes lost through the agglutination or entire adhesion of the ejaculatory duets. These observations have been corroborated during the present investigations on the condition of the protate. In eight of ducts of the considerable of the product of the condition of the protate. In eight of ducts of the constant of external affections of the bladder, the ducts of the constant of the condition of the product of the condition in two the vasa deferentia were adherent. The so-called bloody seems in a faction, for neither in the vesicule or the other seminal passages have I over met with it. It is only rendered bloody when, in blenorhapia or vesical extarts, the semen is forcibly expelled through the abherent ducts. The point of reputer if they induly in incitus during the blenorhapia of the condition of the ducts, and then bloody seems results; or, when it is deficient in this, the patient is aware of a sense of regurgitation is defined in this, the patient is aware of a sense of regurgitation of the ducts, and then bloody seems results; or, when it is deficient in this, the patient is aware of a sense of regurgitation of the ducts, and then bloody seems results; or, when it is defined in this, the patient is aware of a sense of regurgitation that the subject with the necessary care of the ducts and who examine the subject with the necessary can be settled.

wind examine the souper, with the accessive care.

Who examine the souper with the property of the voiced externs. When, however, there is persistent obstruction or adhesion of its ducks, as my former investigations have shown that the discharge of the prostatic fluid is an indispensable condition of the excretion of the generative faculty, we have to consider carefully the condition of the prostate and its ducks as well as that of the seeminal passages. For having demonstrated well as the set of the seminal passages. For having demonstrated well as the set of the seminal passages. For having demonstrated priority, notwithstanding any accidental recognition of similar results by former authors. We have in former investigations shown that the prostate is to be regarded as no mere accessory organ, but as a size gud now of the entire generative apparatus, complete generation being impossible in an abnormal condition of this organ. The prostate indiud must, in its ehemical and or this organ. The prostate indiud must, in its ehemical and accessed the control of the prostatic secretion for an undergoes alteration for a long period; so that persons affected with beloncybagin of the prostatic decease affected with beloncybagin of the prostatic decease and frest evidents are incapable of generation because the prostatic fluids in an abnormal organ.

The diagnosis of blenorrhagia of the prostatic duets is very difficult as regards specially characteristic symptoms, although the participation of the prostate in the diseased conditions of the urethra and bladder can be made out in a somewhat undefined manner. Neither any considerable amount of pain nor enlargement of the lobes of the organ, except of the posterior in an advanced stage of the affection, furnish indications of the blenorrhagic affection of the organ. From the twentieth to the twenty-fifth day of its duration the attentive observer may, however, have an opportunity of observing a change in the colour and consistence of the secretion. The whitish mucus may all at once assume a greenish-yellow colour, and be greatly augmented by pressure on the root of the penis. A prickling sensation in the rectam indicates an abnormal condition of the posterior lobe, without determining the nature of this. An posterior sobe, without determining the nature of this. An important sign that the prestatic portion of the urethra is in passed into the bladder. This, which otherwise can be passed in white case, also now induces severe pain while traversing the prostatic portion, even when the blenorrhagis in its chronic stage. The laucinating pains shooting down to the testes, and the pains in general which irradiate more or less over the whole genito-urinary apparatus in its inflamed condition, have nothing special about them in this affection. In the dead body, when the prostatic ducts have participated in the blenorrhagie, the whole prostatic portion of the urethrais found intensely injected, and on pressure being made upon the prostate, true blenorrhagic secretion is discharged from the ducts. It is of great interest, too, to note that even when the ducts. It is of great interest, too, to note that even when the blenorrhagia has entirely ceased in the urethra, it may still persist in the prostate. We have two beautiful preparations, in which, while the urethra is entirely free from blenorrhagia, the ducts of the prostate, and even the acini, as shown by the microscope, are loaded with blenorrhagic secretion. tion was so abundant that on pressure being made it issued abundantly. We had occasion to observe this in a remarkable manner in a patient dying of typhus. Along the entire urethra, no trace of blenorrhagia of recent origin was observable; but the trigonnm, the caput gallinaginis, and inner orifice of the urethra were in a condition characteristic of this affection of the prostate-viz., bypersemic, with small erosions,

and swollen.

Some authors who do not pay sufficient attention to the Some authors who seem not to be aware that the prostate is both in front and behind encapsulated in a very tease membrane, describe absences which, forming on the surface of the gland, penetrate into its cavity. In the innumerable cases of diseases of the prostate and bladder which we have hitherto examined, we have never met with such abscesses, with his eatherter. The mueutant issue is so provalent in its texture, that the formation of abscess in its substance must be a very rare occurrence, seeing low frequent are abscesses of nusde. Isolated by means of ligaments and tendons and its own string fibrons overing, the prostate does not participate exception of the parotid gland, there is no organ which so well preserves such independent condition.

On slitting up the prostatic ducts affected by blenorrhagia, they are found to be dilated to three or four times their natural In their normal condition there are only five or six of the sixteen ducts that will admit even a fine bristle, the calibre of the others only being ascertainable by the microscope; and their dilatation is entirely due to the presence of so large a quantity of secretion during the blenorrhagia of the prostatic ortion. Not only do they become larger, but also longer, some of the ducts, which in the normal condition are scarcely a line in length, becoming two or two and a half lines long. coloured coloration surrounding the mouths of the ducts is characteristic of their condition, and not only are the ducts pigmented in a similar manner, but they exhibited a slate-coloure deposit, which, under the microscope, is shown to contain crystals of triple phosphate. This coloration is to be distinguished from a post-mortem appearance, and from one which may be artificially produced by passing the knife over the mucous mem-brane. In the pathological condition, there is a deep blue colour around the mouths of the ducts, disposed in circular stripes, while the post-mortem appearance is diffused without any streaking. In the pathological process there is also a slate-coloured deposit, which is never absent in the trigonum Lieutaudi.

After chronic externt of the bladder, the careful examination of the prostatic portion of the urethra should nerve be omitted. Small erosions at the inner end of the urethra should serve as an indication that the prostate may be involved, and lead to its examination. This will, sooner or later, lead to the pathology of the prostate entering upon a new phase. As we have

already shown, too, the catarrhal secretion expelled from the bladder may, by the continuous pressure it exerts on the pros-tatic portion of the urethra, give rise to dilatation of the prostatic duets and the forcing of the discharge into these, in this way leading to the propagation of the catarrhal condition of the bladder to the prostate. In such cases, we find exactly the same secretion, which is accumulated at the base of the bladder; and it is the near resemblance which this often has to pus which has led some authors to mistake it for suppuration of the prostate. The great difficulty which exists in distinguishing s secretion from pus, leads to the suspicion that suppuration of the prostate is commencing; but if all the cases presenting secretion having this appearance were actually of the dangerous character attributed to them, even by the most recent pathologists, we should have to pronounce a fatal prognosis in one half of the cases of vesical catarrh. In most cases of this affection, after a time, pus is found in the secretion without the condition of the patient undergoing any essential change. This presents us with an unwelcome example of how little the histological investigations concerning the innocent or malignant nature of cells have advanced our science : for nowhere more than with respect to the secretions of the diseased urethra can the worthlessness of the hitherto current theories on the mischievons effects of pus be better shown.

The posterior portions of the prostate, on account of their more infinitial councils on with the unethra, participate more readily in its affections, and during the inflammatory stage of prostatic blenorrhapis, these lobes may undergo a considerable increase in size without this being perceptible during life. After death, one or other of the lobes may be seen to have After death, one or other of the lobes may be seen to have stricture in the rectum, this being rather dislocated than obstructed by its increase. The examination of the prostate frequently gives rise to deception, for the gland must have fincreased three or four times in size before it can be reached by the fluger, and a lesser amount of redargement cannot therebe accertainty of per amount, can only arise from a degeneration of its entire posterior lobe; and at present we have only to do with the blemorrhapic affections of the prostate. The tensity of its capsule prevents any very great calargement, but sometimes a portion of the glandate substances perforates this and condition may ensue from a activation the presum.

Strictures of the urethra from enlargement of the prostate are of extreme rarity, notwithstanding that this is regarded as a frequent cause. The urethra has so large a play between the corpora cavernosa, and can exert much locomotion before being interfered with by an enlargement of the prostate

THE BATHS OF BORMEO. By R. WHITFIELD HEWLETT, M.D.,

THE better known and more fashionable valleys of the Engadine have hitchet attracted a much notice that other climatic resorts in neighbouring contons have not, as yet, received the attention which they deserve, and yet some of them passes a climate superior to any in the Engadine, and mineral waters of considerable reputation and merit. Experience proves that scorollosis and tuberculosis are only known in the higher mountain regions of Switzerland as exotics.

Cases of both diseases do occur sporadically, but their cristence is easily traceable to local causes, while the records of Davos and St. Moritz are year by year yielding most valuable cridence of the benefit which some cases of chronic lung consumption derive from a residence in elevated district, and use of the control of the case altitude to battle, or we can appeal definitely as to the exact altitude to battle, or we can peak definitely as to the exact altitude to be control of the case altitude to the case of the case of the case of the case altitude to the case of the case altitude to the case of the case of the case altitude to the case of the c

Of the great value of mountain air and life in some forms of laug-consumption I am thoroughly contineed; but a residence of three months in the Upper Bagadine last summer, no less than the observation of cases that came under my care, and of invalids who had braved more than one winter in care, and of invalids who had braved more than one winter in St. Moritz, have led me to believe that the rough climate of the

Engadine, however well adapted to some cases, is not only impirious to cases where frue therete exists in the lungs or other organs, but must be advised with great caution in all cases of chronic lung-inflammation and cheeps infiltration, even where no tubercle is found; and more especially where there is a decided history of family lung-consumption, or when the patient suffers from a feebb heart, languid circulation, with small powers of rallying, and is every succeptible to slight changes of temperature. The mountain treatments occurrently on the consumption are serious results have occurred from injudiciously sending unsuitable cases into the Engadine, it is wier to select, opercially for the legal yearungs, a place which possesses all the conditions of a mountain climate without the roughness and severity of the higher altitudes.

In this respect between commends itself especially to our notice. Within easy access of Come and Mian on the one side, and the Tyrol on the other, separated from the Upper Engadine only by a long day's journey, Bornese is situated at the head of the Upper Valtelline, which widens into a large basin-like expansion ere it cuters the defile of the Stelvio.

bean-the expansion er it enters in outmoth by the majestic mountains of the Selver Lass and nor branch house faces almost valley, enjoys the full influence of this and of the widening valley, enjoys the full influence of this and of the widening valley, enjoys the full influence of nearly as whole day's sumenost important advantage, as in mountain valleys the sun generally falls early below the horizon, and the afternoons are cold and chilly. Though situated 4100 feet above the sea, it thus enjoys, from its sheltered position on the north and open aspect on the south, a milder and more equable clinate than the rougher seasons of the Upper Engadine, and is, therefore, more suited to delicate and sensitive constitutions which need the bracing tools of mountain air, without the over-stimulating properties of the higher altitudes, and to cases with a decided tendency, inherted or acquired, to lung-consumption, inflirantent on the language of the higher Alpine there may be even a greater or less and or the higher Alpine there may be even a greater or less more of the higher Alpine.

regions may be considered too great an experiment. For most cases, I think, the altitude of Bormce will be found sufficient. In some instances, especially during the summer months, it may, however, be well to move for a while to higher and cooler districts; but in every case of predisposition to tunberculosis and lung-consumption, and dense of cheesy infility to the contract of t

Mean humidity		July. 68.4°	August. 68:3°
		30.3	30.
Minimum .	 · .		
Maximum .		83.3	83.3
Clear days, .		21.8	23.5
Mixed days .		4:1	5.2
Cloudy days,	· .	5.3	2.3
Rainy days .	7	2.6	1.5

I may mention one case in which a month's residence at Bormeo was followed by most satisfactory results:—

A. B., about 36 years of age, was under my eare in Naples with typhoid fever. For several years he had ansfered on and off with occasional cough and send stoon, which was sometimes tinged with blood. But he had been personance to the contraction of the send of the contraction of the flagged at his palse ran up, and symptoms of bronchitts at the base of one lung came on, with high skin-temperature, sweats, loss of flesh, loss of appetite, great debility, and free expectoration. It was then May, and very hot, with sircoco wind. I had him taken to Castellamare, where, after a few days, he rallied, and was carried day by day into a boat, in which he passed several hourse.

He gradually improved; the pulse fell, though still high, the

lung symptoms improved, the night sweats diminished, and his appetite returned.

As soon as be was strong enough for the journey, I sent him to Borneo, where he remaind four or five weeks; and when, in August, he came to see me in the Engadine, we result to England, Jabould hardly have recognised him as the ame individual. The lung mischief had gradually subsided, the night sweath and ceased, he was no longer troubled with cough, and he had grown stout and strong. His voice still remained somewhat husky.

husky.

In this case, a suspicious family history, the existence for some years of lung irritation on slight exposure, and the symptoms which supervened during convalescence led me to fear the development of rapid lung-consumption. His rapid improvement a surrible entirely to change of air, and especially to the

Secondly, as a spring residence, Bormco seems to me to supply a want that is very much felt by a large class of invalids who winter in the Riviera, Sicily, Egypt, or South Italy, and are driven away by increasing heat at a time when the higher mountains are impassable from the melting of the winter's snow and ico. St. Moritz, for instance, is not to be recommended until quite the middle or end of June. Monsieur André de Planta, whose analyses of mineral water are so well known, speaks most highly of Bormco as a spring residence during the second half of March, April, May, June. If desembes it as ira excellent, strugthening, and less exciting than the Engeldine and other and the cold winds, which reader the Engeldine and other and the cold winds, which reader the Engeldine impossible for delicate constitutions during March, April, and the beginning of May.

Thirdly, Bormeo may be strongly recommended as an excelent point of arrive in route to the Engadine, where patients may become prepared for the altered conditions of life in valleys over 500 feet. Some valuable local springs and a powerful iron springs at the neighbouring village of Santa Caterina assist in line, and contain also salts of soda, potash, and magnesia. The quantitative analysis by Monsicar de Planta showed, in 1000 parts—sulphate of soda, potash, and magnesia. The quantitative analysis by Monsicar de Planta showed, in 1000 parts—sulphate of soda, potash, and magnesia, 0.9181; sulphate of iron, 0.9185, carbonian of lime, 0.9173; chloride of sodium, 0.0112; sulphate of magnesia, 0.9201; sulphate of lime, 0.9485, carbonian of lime, 0.9173; chloride of sodium, 0.0112; traces of iron and manganese. They are especially valuable in equanous skin diseases, lymphatic enlargements, scrofulosis, chronic calargements of the sphen and liver, chronic rheumatism, diseases of the netroin system, and other affections. Such are some of the reasons why we think Bormoo deserves a fevenest place in the lift of monstain climatic resort; and on the lift of monstain climatic resort; and on micromitation in the lift of monstain climatic resort; and on micromitation in the lift of monstain climatic resort; and on micromitation of the properties of the prove far superior to any other spring monntain-residence, and will ere long rival the Engadines as a winter record for patients suffering from

to any other spring mountain-residence, and while re-long true the Engadine as a winter recort for patients suffering from threatened or developed lung-consumption. I am authorised to state that the hotel will be opened early in the spring if a sufficient number of applications be made to the Director, Bormeo.

Naples.

NEW WIRE SPECULUM.

By Surgeon W. P. PARTRIDGE, M.R.C.S.E., L.M., Bombay Army, Presidency Surgeon, 3rd District Bombay; in Medical charge of County Gaol, House of Correction, etc.

ALL ophthalmic Surgeons who have been in the habit of operating much have felt the necessity of having a speculum which combines the following points:—(1) It must be easily nemorable; (3) it must be easily nemorable; (3) it must be seen constructed that it will resist the pressure of the lids which sometimes occur; (4) it must not be liable to become displaced; and, above all, (5) it must not interfere specula of various kinds, but have not been constructed to meet with one in which all these qualities are found. I have therefore been led to construct the one of which I now send you a sketch, and which will, I think, be found to fulfil every requirement.

The instrument differs from the ordinary ones in having no spring, and in the apparatus for checking closure of the

lids being removed from the vicinity of the eye, and placed vicinity of the eye, and placed on the cheek. A squared curved stem (a) has a piece of wire firmly attached to its upper end, which is so bent as to avoid the inner canthus of the eye, and supports the upper lid while the lower lid is hooked and drawn downwards by a corresponding piece of wire attached to a round piece of metal (b), per-forated by a square hole, which is made to run easily up and down the squared stem. On the upper part of this portion is a nut and screw (c), by turning which, the instrument is at once fixed at any desired point. The object of the stem being curved is, that the hook for the lower lid, when drawn downwards, may have an inclination also backwards, and thus the chance of slipping is avoided



The application is simple: bold the instrument by the lower part of the stem; insert the book under the upper lid! take the serew-mut in the right hand, and, pushing the other hook up till it bouches the upper one, make it seize the lower lid and draw it downwards to the desired extent; then fix it by a half turn of the serew. A speculum for each eye is required (my drawing represents the one for the left eye); but in cases in which it is desired to have the inner angle free (as in operating for pterryzium). I use the speculum for the opposite eye. I may mention that I have sent a pair of apecula to Mr. Bowman, and have asked him to show them to Weiss, who will doubtless be willing to make them, if required.

Bombay.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

GUY'S HOSPITAL.

TORSION OF ARTERIES AFTER AMPUTATION OF

(Under the care of Mr. COOPER FORSTER.)

Juneuse from the general experience at the Metropolitan Hospitals, the question as to the best method of arresting arterial bleeding in Surgical operations seems to be still sub judice. Nor is It singular that It should be so when we consider the glowing terms in which the rival methods have been severally culogised by their enthusiastic supporters. It is only a very few years since the triumphs of acapressure were sounded with no uncertain note by the two chief Surgeons of Aberdeen, and we were promised immunity from, at least, secondary hemorrhage and pysemia by the adoption of this lately revived procedure. Nor was the admonition wasted upon English Surgeons. Some of our greatest operators made a pilgrimage to the north to see more of the reported marvels, and spoke in terms of unqualified praise of much which they saw. And yet the grave has hardly closed upon the distinguished man who so eloquently defended the new practice at the expense of the old one, before it has come to this, that the practice of acupressure is almost unknown in the Hospital practice of London. We believe that the explanation of a good deal of this change of opinion is to be sought in the unfounded charges brought by the supporters of acupressure against the ligature. That these charges-comprising "the

insertion of bits of dead flesh into recent wounds," with all the attendant horrors of consequent blood-poisoning-produced at first a grave feeling of mistrust in Paré's great discovery was not unnatural; but when this surprise was recovered from, and Surgeons began to see the fallacies and errors underlying the energetic attack upon their tried friend, the ligature, there was an almost necessary revulsion of feeling, and many, wearied by the mechanical difficulties of acupressure, and disappointed by its frequent failures, were glad to fall back upon the disampled Advantage. the discarded thread. Others, however, now that attention had been fairly called to some drawbacks inseparable from the use of the ligature-as the occasional occurrence of secondary hemorrhage on the separation of the threads, and the nuisance of the ferced presence of foreign bodies in the wounds—looked ont for some other simple method which should be free from these inconveniences. The revival of torsion by some of Sir J. Simpson's opponents in Edinburgh furnished a ready alternative, and forthwith many realous advocates of acupressure became equally loud in their praises of torsion. Amongst these, Mr. Cooper Forster, of Guy's Hospital, was conspicuous as an earnest supporter of both methods in turn, and as a Surgeon whose eminence and experience give great weight to his practice. Mr. Cooper Forster has been singularly consistent in the matter, for he has now twisted every vessel, large or small, in all his amputations for four years past, having been previously as much wedded to sompressure for a considerable period. The result of his experience is remarkable, for we learn that he has not had a single case of secondary hemorrhage during the whele of this period. And the list of vessels twisted includes many arteries of the first size, for he has amputated through the thigh nine times in the last six months, and there are four of his patients with twisted femorals in the wards at this time. We were, twisted femorais in the warus at this time, we were, therefore, very pleased to have an opportunity of observing closely his medius operandi in an amputation of the leg lately. On Tuesday, February 28, a middle-aged man was brought into the theatre with a deformed, which is made also which is a second description. uscless log, which it was proposed to remove. The man was a very stout, big fellow, and his left leg, from old disease, was atrophied, the knee flexed and displaced, and the dorsum of the foot occupied by a large gangrenous and exceedingly offensive ulcer. This ulcer had been before healed, but now resisted all treatment, and the man, worn by the distress and inconvenience of the disease, gladly acceded to Mr. Forster's suggestion that he should lose his leg. The only question was whether the limb should be severed above or below the knee, and this point Mr. Forster decided in favour of the minor operation, on discovering, whilst the man was under chloroform, that there was a fair amount of movement in the joint. The operation was performed by two equal flaps, and, the bone being sawn through, the vessels were twisted one after another. The forceps employed were such as are familiar to our readers as torsionforceps, but the blades were broader and stronger than those we have usually seen, and terminated in broad, well-rounded points. Each vessel was seized and rapidly twisted some six or seven times, the wrist turning with the demi-circuit some twelve or thirteen times, until, in fact, the operator felt something "give;" and the safe completion of the torsion was tested by seeing the twisted bit of tissue pulsating away in the face of the flap. This point is specially insisted on by Mr. Forster. It happened that in this case torsion was particularly difficult. The deformity of the limb made it not easy for the Surgeon to see the wound well, and the larger vessels, as so often happens in leg amputations, retracted considerably, and were caught with much trouble. It was just such a case as has caused many an operator to throw aside the forceps and call for the threads; but Mr. Forster, with more confidence in the method, persevered time after time, until the refractory vessels were secured, and the flaps might be safely sewn up. The impressecured, and the major angular of satery sewin up. 1.10 impression made upon us by the operation, which, we were assured, presented very unusual difficulties in the application of torsion, was that with such experience as Mr. Forster's before us (and his is not exceptional, for we believe that Mr. Bryant has had equally favourable results in the same Hospital), and with the manifest advantage of having no threads remaining in the wound-although we confess to being slow to credit the ligature with the many ceils attributed to it of late-Surgeons generally would do well to give torsion a genuine trial. We know that it is employed now in many Hospitals, but we believe that if operators saw more of its use they would be glad to adopt so simple and effective a substitute for a process which requires an extra assistant, and is certainly attended by some few cvils from which torsion is apparently free.

EDINBURGH ROYAL INFIRMARY.

DEFECTIVE CUTANEOUS SENSIBILITY IN CASES OF PSORIASIS.

PROFESSOR LAYCOCK has repeatedly called the attention of his class to the fact that in certain kinds of syphilis and psoriasis there is a defect in the sensibility of the skin—a trophic nervous there is a defect in the sensionity of the sain—a sequence.

debility—and that in this and other respects these constitutional diseases are to be classed with certain kinds of leprosy.

Mr. Rebert Lawson, one of Dr. Laycock a clinical clerks, lately made, at Dr. Laycock's request, a series of observations on the sensibility of the skin in cases of psoriasis, which we are able to publish. The following are the cases as reported by Mr. Lawson :-

Case 1.—J. D., clerk, aged 23; admitted into Edinburgh Royal Infirmary, November 25, 1870.

Inseasc. - Psoriasis inveterata

History.—Seven years ago this patient was in Hospital for the treatment of an cruption resembling the present. Under the care of Dr. Laycock, the diseased condition gradually yielded to treatment. About three and a half years ago the present derangement appeared. The scalp was first affected, and in course of time the eruption extended continuously downwardstill neck, trunk, and extremities were all implicated. Between the present and former attacks he enjoyed good health, and he can trace the recurrence to no particular cause. Investigation elicits a definite rheumatic family history.

Condition on Admission .- All over the scalp, upon the trunk, anteriorly and posteriorly, and ever the legs and arms there are patches of an eruption presenting a broad red base covered to a great extent by white, hardened, adherent scales. covered to a great extent by white, hardened, adherent scales. Healthy patches of skin, surrounded by zones of diseased structure, are present on the left forearm, and on the legs and trunk. This insular condition is not the primary manifesta-tion of the cruption, but has been artificially produced by domestic treatment. Investigation regarding the sensibility of the integumentary surface shows that there is a uniform and considerable dishutton of acted disserimination.

Treatment .- To meet the indications of nervous change, and to test the reliability of that principle of treatment, a sectional plan will be adopted—one-half of the body to be treated with

blue-stone, the other with sulphur ointment.

Subsequent Observations .- The treatment with blne-stone has been very successful. A confirmatory therspeutical argument has thus been supplied, supporting the theory that nervous alteration constitutes an important part of the disorder under ancration constitutes an important part of the disorder under consideration. As no symptoms have arrisen which in any way qualify the success of the sulphate of copper, its uso is, in the meantime, to be continued. As the sulphur ointment has produced no marked progress towards a cure, it will be substituted by liquor arsenicalis in glycerine. Dr. Lavcock observed that caution was necessary in using cupri sulphas. In a case of psoriasis of the forearm under his care, a paralytic condition of the arm followed upon its continued use. Subsequently the solid nitrate of silver was applied in front of the spreading margin of the patches, which assumed the appearance of lepra vulgaris, with the effect of arresting the spread at that point.

Case 2.—J. P., flax-dresser, aged 54; admitted into Edinburgh Royal Infirmary November 2, 1870.

Disease .- Psoriasis vulgaris.

History.—For a period extending over twenty-seven years this patient has suffered from occasional cruptions, corresponding in every respect to that of which he now complains. On five several occasions he has been admitted into the Royal Infirmary for the treatment of the same disorder, and, after varying periods of residence, has, on each occasion, been dismissed cured.

Condition on Admission,-His whole surface exhibits an almost uninterrupted expansion of diseased texture. diffuse eruption consists of red basilar patches, surmounted by hardened epidermic scales. The sensibility of the skin, as tested by the asthesiometer, is found to be considerably impaired.

Treatment. - Sulphur ointment, and the internal use of metallic tonics.

Observations.—The patient showed early and progressive appearances of improvement. The same treatment has been employed throughout the management of the case. At the present date the cruption is almost imperceptible.

Case 3.—H. W., mason, aged 30; admitted into Edinburgh Royal Infirmary November 10, 1870.

Disease - Peoriasis vulgaria.

Condition on Admission .- Skin almost entirely covered by an cruption which consists of large red patches, surmounted in most places by morbid epidermic scales. The application of the asthesiometer shows a decided diminution of tactile sensi-

Treatment.-Pitch ointment twice daily.

Observations. - The diseased condition soon underwent favourable modification. The scales fell off, and the redness of the able modification. The scales fell off, and the redness of the exposed patches became gradually fainter. At present the case is rapidly advancing towards a satisfactory termination. Case 4.—J. C., dock labourer, aged 36; admitted into Edin-burgh Royal Infirmary November 8, 1870.

burgh Royal Infirmary November 8, 1870.

Disease. Peoriasis guittate.

History. — The patient, when admitted, presented every appearance of depraved nutrition. His whole symptoms pointed to a specific origin, and the cruption which appeared on the second day after his admission strengthened the indication. This cruption consisted of a general crop of brownish-red papillary elevations, separated from each other by about half an inch of unaltered skin. In a short time each elevation began to present a delicate silvery scale upon its summit, and the nature of the eruption became defined.

Treatment.—Both the skin disease and the other morbid con-

ditions indicated constitutional treatment. Small doses of bichloride of mercury were administered. The result was a marked improvement of the general state, and a gradual dis-

marked improvement of the general state, and a gradual un-appearance of the skin affection.

*Dbsrretions.—It was observed that the cruption remained on the hands and forearms after it had disappeared closewhere, and Dr. Layocck remarked that this was probably due to a difference in the trophic inservation of the hands and feet. On turning down the patient's stockings, the skin of the feet and lower leg and ankles displayed exactly the same eruptive condition as that of the hands and forearms.

A special integumentary examination, by means of the sethesiometer, of these patients suffering from psoriasis authorises the following statements:—1st. That in this form of disease tactile sensibility is uniformly diminished. 2ndly. That the diminu-tion is directly proportionate to the diffusion of the eruption. 3rdly. That the greatest reduction is exhibited by the diseased patches themselves. 4thly. That relative changes in the apprecia-tion of heat, cold, and pain cannot, in psoriasis, be determined

by such appliances as are at present available.

With regard to the first observation—that, in psoriasis, sensibility to touch is uniformly diminished—it requires to be mentioned that the decrease is a comparatively small one; but if the change can be called in question on account of its minuteness, a strong corroborative argument is supplied by its unmistakable uniformity. In all the cases examined the average decrease was equivalent to 1 6 lines of the asthesiometer. For instance, in the case of the dorsum of the great toe, the normal distance at which the points of the asthesiometer cease to give separate impressions is 7 lines. But in psoriasis the corresponding distance in the same situation averages 8.6 lines, showing a diminished sensibility of 1.6. In a similar manner the gross average has been ascertained. The observation that the gross average has been ascertained. The observation that the diminution of tactile sensibility is directly proportionate to the diffusion of the eruption, might be naturally anticipated intensified at the diseased patches. In a very diffuse cruption the points of the instrument cannot be so adjusted as not to imprige upon abnormal surface. Fossibly, however, the diseased patches and the diminished resthetic power, instead of being respectively related or mutually dependent on each other, may both arise from a common atrophic condition. Whatever the relation may be, investigation shows that great comparative loss of sensibility is found in diffuse psoriasis vulgaris—the diminution averaging 2.2 lines on the esthesiometer. In another case of the same kind there is an average reduction of 1.3 lines, notwithstanding the great advancement which has been made towards recovery. And a comparison of these two cases of psoriasis vulgaris shows that, at an earlier stage, both of them must have been characterised by greater tactile defect.

It is, perhaps, worthy of notice that, in the case of paoriasis guttata, where the points of the instrument can be placed between the diseased spots, the diminution of tactile senability is relatively least marked. This observation again indicates that if the cruption and the as-thetic change have not a relation

of cause and effect, they are at least coincident, and most

of cause and effect, they are at least coincident, and most probably have a common origin stohes are themselves least sensitive, is founded upon manipulation of the cruption seb-sequent to desquamation. In the case of pooriasis invetersia, the difference between the sensibility of discased area and a corresponding patch of healthy skin is six lines. In the cases of pooriasis variguris, there is a difference of two or three lines. The accompanying table will show the modifications in detail.

Tabular View of the Modifications in Sensibility in Pour Cases of Parriasis under Dr. Laucock's care.

Ŷ	Smallest Distance at which Two Points of Æsthesiometer can be separately felt, in—										
	Fore- arm.	Palm.	Deltoid.	Between Scapular,	Anterior Surface of Thigh.	Posterior Surface of Thigh.	Log.	Sole of Poot.	Dorsum of Great Toe.	Over Malar Bone.	Average Diminution of Sepsibility.
ormal state	inch	5	1 in. 6'	1 in. 9	1 in. 4	9	2 in.	7'	7	5	Lines

We add the following note supplied by one of Dr. Laycock's

" Peoriasis following upon Artificial Local Anasthesia. - In the course of some experimentation on local ansesthetics, I applied a mixture of chloroform and acctic acid to two portions of my left forcarm. There was not any visible change in the paris, but loss of sensibility was immediate and complete over the entire surfaces to which the solution had been applied, so that the skin could be pinched and transfired by needles without any pain. From one of the peaker of the contract was pain. From one of the peaker of the contract was thrown off after a few days; the other (s) desquanated its cutile. On both the resultant cicatrices, patches of poorisis appeared, extending as far as the primary applications, and terminating abruptly at the margins. After about a fornight, a was covered with pityriasis, and a showed several spots of poorisis with intervening pityriasis. During deep consists with intervening pityriasis, and a showed several spots of poorisis with intervening the contract of the co a mixture of chloroform and acetic acid to two portions of my farfunceous scales, which gradually ceased, so that, in about alt weaks from the experiment, it was quite recovered, yielding no mark. A gradually cast off all its crusts of portions, and became correct with playings, which ended as on 1; but three months elapsed before the part was natural. No pigmentation of eligimentation occurred. Frequent microscopic examinations were made, but no parasitic organism was discovered. I was in good beath at the time, but somewhat overworked (preparing for examinations), and was daily attending cases of disease in and out of the Infirmary. I had never before, nor have I since, had any cutaneous disease.—L. S. H., M.D."

SOOTHED TO DEATH!—Two infants have been poisoned in Manchester by "soothing medicine." In one case the mother had administered five drops of laudanum; in the other, some

HEAT AS AN ANASTHETIC .- M. Sédillot, of Paris, by means of an electrical apparatus, raises the temperature of his instruments to a white heat, and then performs any Surgical operation, which is scarcely felt by the patient, as burns at that. intense heat cause little or no pain.

POISONED WITH SWEETMEATS!-This sentence threatens POISONED WITH SWEFTMEATS:—This sonlone threadens to take its place among the verdicts of cronure's juries, if we may judge from what we hear of the sale of poisonous confectionery. A correspondent of the Phermatential Journal writes—"A short time since I purchased some conduct of a most respectable trademan in Oxford-street, and my suspicions being aroused by the brilliant colours of some of the sweets, I examined them, and there were the surface of the sweets, I examined them, and they are the surface of the sweets, I examined them, and they are the surface of these who surface and the surface of these who surface that in any well strike terror into the hearts of those who surface intended the nursery. There is manufacture." The idea of this may well strike terror into the hearts of those who superintend the nursery. There is, however, one great safeguard, which may be condensed into the moral, Never buy sweetmeats which are coloured brilliantly. A still safer moral is, Never buy sweetmeats at all. Modical Times and Gaseste

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Medical Times and Gazette.

SATURDAY, MARCH 11, 1871.

THE COUNCIL OF THE ROYAL COLLEGE OF SURGEONS AND THE CONJOINT EXAMINATION SCHEME.

By the narrow majority of one, the Council of the Royal College of Surgeons, at its meeting on Thursday, last week, passed a resolution to send back the conjoint scheme drawn up by the Committee chosen by the two Colleges and the Society Apothecaries, and confirmed by the Comitia of the Fellows of the College of Physicians, to the Committee for reconsideration, on the ground-first, that the scheme in question did not perform a legal impossibility—that is, practically prevent any of the Medical authorities in England from granting registrable diplomas to persons who had not passed the Conjoint Board; and secondly, because the Committee had not invited the co-operation of the Universities in the appointment of examiners or assessors. The mover of this resolution was Mr. Simon, who may not unnaturally feel that if the conjoint scheme were perfected and carried into effect, the arguments for the re-introduction of the Government Medical Bill would be at least diminished, and so far the occupation of the Medical Department of the Privy Council, which that Bill foreshadowed, would be gone. We have never asserted that the scheme was perfect, but we maintain fearlessly that it is excellent as far as it goes - a piece of real reform, which will cover a large part of the ground over which any reform is necessary. With regard to the first objection-that it does not unite all the Medical authorities in a league not to grant registrable diplomas to persons who have not passed the Board-the supporters of Mr. Simon's resolution ought to know that no scheme can do thismay, that it seems very improbable that any Act of Pardiament can be at present passed which will do it. This was one of the rocks on which the Government Bill split last year. But the scheme at least will do thus much: It will prevent the three great Corporations, which between them license nine-tenths of the Medical men in England, from granting their most useful and popular diplomas and licences to persons who have not passed through the same portal of examination. If this be not a very real and very valuable reform, we should like to be teld what it is! With regard to the co-operation of the Universities, we should be glad to see it obtained, but this is no reason why the acceptance of the scheme should be postconed for a single day. Fortunately, before the Council are finally pledged to Mr. Simon's resolution, the minutes of their last meeting must be confirmed, and an opportunity, therefore, will occur for rediscussing the whole matter. There are three courses open to the Council. First, they may reaffirm their acquiescence in Mr. Simon's resolution. This would simply throw back the Committee to the point from which they started, compel them to go through all their work again, and perhaps end in a declaration of hopeless difference of opinion and mutual antagonism. This, we say, would be the natural result of the final adoption of Mr. Simon's resolution. Secondly, it is open to the Council to refuse point-blank to confirm the minutes of the last meeting, and to take ne further steps in the matter. This would save the conjoint scheme, the value of which is great, but it would leave the Council open to the complaint that they passed a scheme without any communication with the Universities, and that therefore that scheme, measured by a standard of uniformity, could only be looked on as temporary and incomplete. But a third course, and one which we most strenuously recommend, is open to them. Let the Council of the Royal College of Surgeons make sure of the excellent work done by the Committee, by refusing to confirm Mr. Simon's resolution and by adopting the scheme; but having done so, let it pass a resolution requesting the Committee to communicate with the three Universities of Oxford, Cambridge, and London -Durham, we think, may be left out of the question at present-inviting them to co-operate with the three Corporations, by naming assessors to be present at the examinations, and by making a regulation that their graduates, previously to receiving their M.B. and M.C. degrees, shall pass the Board. The Universities, it must be remembered, would lose none of their ancient privileges by such a regulation : for they would not be legally bound, as by Act of Parliament, to forego the granting of degrees to any but licensed persons; they would only voluntarily make a regulation with regard to their graduates, which they may rescind when they like, and by which they forfeit no liberty of action. We think it more than probable that the Universities would accept these terms, and that thus a truly national Board would be formed, without the interference of the Legislature or the dictation of any minister or officer of State. If they refuse, the offer will have been made, and the principle of uniformity will have been vindicated. After all, it is but "the idea" which is at stake, for the Colleges of Physicians and Surgeons could between them nominate every living man of eminence in Medicine and Surgery which the three Universities have produced. This, then, is the advice we have to offer: Let the Council of the College of Surgeons accept unreservedly the scheme worked out by the Committee as far as it goes; but let it also use its great influence to obtain the co-operation of the Universities. We see that a special meeting of the Council is called for Wednesday next, and we hope that some such plan as that we have now sketched will be adopted.

THE SMALL-POX EPIDEMIC.

Fon the first time for many weeks the Registran-General records a slight diminution in the number of registered deaths from small-pox. For reasons assigned in a former article we must not hastily accept this as oridance of commencing subsidence of the epidemic. The total deaths registered from small-pox were 213, being fourteen fewer than in the previous week. After the distribution of the deaths in the Hoopitals, it appears that the Eastern districts still stand pre-eminent for fatality; the order being—East districts, 53 deaths; 50uth, 56; West, 41; North, 39; and Central, 14 deaths. The fatal cases show a decline last week in each of these groups of districts, except the West, where they were more numerous

There is some reason for believing that the variations of the pidemic from week to week are influenced to a certain extent by atmospheric conditions, and more especially by variation in temperature. If anyone will take the trouble to look back at the tables furnished by the Registrar-General, he will at once see what we mean. Small-pox has an incubation of about a fortnight. Allow another week or ten days for the full development of the disease and fatal issue, and then compare the registered mortality from small-pox in London with the mean temperature as recorded three weeks previously, and a remarkable illustration of this relation may be noticed. Thus;

Three weeks later-viz., week anding Nov. 12, the mean temperature | Dec. 3, mortality res from 41 fell from 44'1' to 39'1'
Nov. 26, the mean temperature to 60

Dec. 17, mortality fell from 61 rose from 87.6° to 46.8° to 44 Dec. 3, the mean temper Dec. 24, mortality row from 44 to 82

fell from 46.8° to 38.9° Dec. 10, the mean temperature Dec. 31, mertality rese from 82 fell from 38-9" to 32-5" to 110 Dec. 17, the mean temperature Jan. 7, mortality fell from 110

rose from 32.5° to 42.8° to 79 Dec. 24, the mean temperature Jan. 14, mortality rose from 79 fell from 42.8" to 33-0" to 135

Dec. 31, the mean temperature Jan. 21, mortality rose from fell from 33.0° to 25.7 135 to 188 Jan. 7, the mean temperature | Jan. 28, mortality fell from rose from 25.7" to 31.1" 188 to 157

Feb. 11, the mean temperature | March 4, mortality fell from rose from 34.9° to 41.6° 227 to 218

We do not wish to place too much stress upon these comparisons, but they are interesting and instructive, and may assist in forming an opinion as to the probable course which the enidemic is about to follow. Absolute temperature, although not without an influence, seems to have less to do with the amount of small-pox arising week by week than its variations : a marked fall of temperature favouring the spread of the malady, a marked rise of temperature tending to arrest it. Again we must regret the absence of an official record of attacks week by week; the lack of a registration of public sickness is depriving us of the full benefit which some might derive from the lessons of this remarkable epidemic. The Association of Health Officers are furnishing an imperfect return of public cases newly occurring; but it is valuable so far as it goes. We can expect nothing much better so long as the inspection of the books kept by Poor-law Medical Officers and public institutions is not a matter of right. The Metropolitan Health Officers are not yet everywhere furnished with the only information on which they can found a sufficiently early application of sanitary art for the arrest of such an epidemic as is now upon us. It is one of the penalties we pay for divided jurisdiction. Still it would appear that the epidemic violence of small-pox has been for two weeks abating considerably in Westminster, where it had been very severely felt. The greatest increase of public cases in any district on the list took place in Islington, where last week the number of cases was double that of the previous week. Of the several groups of districts, the Northern group last week shows on the list the largest number of cases-St. Paneras, Istington, and Hackney, adjoining parishes, with a total population (1861) of 437,424, giving between them 160 new cases; while St. George's, Hanover-square, and Westminster, with a total population of 208,736, gave only forty-nine new cases

Dr. Crisp, in his paper, an abstract of which appears in our report of the proceedings of the Medical Society of London, raises two questions, which we cannot regard as unimportant. The first relates to revascination. He considers that the statistics of small-pox demonstrate the liability of young children, under 13 years of age, to suffer from the disease out of all proportion to the adults, and hence that revaccination should be extended to them as well as to the latter in times of epidemic prevalence. We think that, apart from the numbers quoted from the Registrar-General's returns, there is something to be said in favour of this advice. A case was reported to us, the other day, in which an infant, who had, to our knowledge, been thoroughly well vaccinated about a year previously, had been successfully revaccinated. The operation was per-

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formed by a Medical man upon his own child as an experiment; and although it by no means proves that the infant would, if exposed to the contagion, have taken small-pox, it shows that there may be exceptional instances in which the power of developing vaccine, and therefore, probably, small-pox also (if the virus were introduced similarly by inoculation), is recoverable very quickly. The experience of the epidemic also shows that young children, although vaccinated, do take smallpox casually, and also that at various periods under 13 years they do develope normal vaccine vesieles on revaccination. Still we must add that, so far as their own protection from a fatal issue is concerned, children well vaccinated in infancy are, on the whole, safe. Ill-vaccinated children may die if they take small-pox: but this is only in small proportion to those attacked, when compared with children not vaccinated at all. But when we look at the question from a different point of view-namely, not in regard to the individual, but in regard to the arrest of the epidemic, and recollect that mild cases of modified small-pox may contribute to the spread of the epidemic, it does seem worthy of consideration whether it is wise to draw a hard-and-fast line of age below which revaccination need not be performed. The operation is so innocuous, and the public benefit that may be derived is so apparent, that we confess ourselves very much of Dr. Crisp's mind in this matter. Certainly we should not hesitate to revaccinate the children of all ages in a family or school into which a case of

small-pox had chanced to drop.

The other practical question which Dr. Crisp raises requires to be dealt with more delicately. We refer to the use of lymph from adult subjects. So long as an adult vaccinifer is healthy, although lymph from such a source is not to be preferred when an infant arm is obtainable, there can be little objection to vaccinate from his vesicle, provided it be a primary vesicle, and of normal character. But we imagine this is not all that Dr. Crisp means. For the most part, the pocks upon the arm of an adult will be the result of a secondary, and not of a primary vaccination, and the question arises whether, under any circumstances, it is allowable to vaccinate from a revaccination pock. The directions issued to public vaccinators by the Privy Council prohibit altogether the use of revaccination lymph, and Mr. Simon, in his recent memorandum upon the subject, says that, "even when good vesicles result from revaccination, their lymph cannot properly be used for other vaccinations or revaccins-Dr. Seaton also condemns it, on the ground that its use is ant to be followed by spurious vesicles, degenerating into sores, and by erysipelas; and in another place in his book he allndes to the mischief, positive as well as negative, which he has known to result from using the lymph from revaccinations. He says, "Several instances of this have fallen under my observation. The practice cannot be too strongly reprehended." Others, who believe in the communication of syphilis by vaccination, condemn it on the ground of the larger number of chances that there are in favour of an adult being syphilitic. Nevertheless, it is not to be forgotten that there are others who are not so exclusive in their views or in their practice, and that among these there are many experienced vaccinators. Thus, in some parts of the Continent, revaccination lymph has been preferred for the purposes of revaccinating adults; and Heim, an authority whose opinion cannot be ignored, seems to have thought that more frequent successes were obtained when the lymph for revaccination of adults was taken from persons who had good vesicles from revaccination on their arms, than when the lymph was taken from an infant. We have mentioned Dr. Seaton. What he says about the "selection of the lymph to be used in vaccinating " is this :- " The lymph must be taken only from perfectly healthy subjects and from thoroughly characteristic vesicles. No second-rate vesicles should ever be used to take lymph from. Babies are in general much better lymph-givers than elder children or adults." But there is no prohibition here of the use of revaccination vesicles so long as they correspond to the description given. We have mentioned all his allusions to the subject, and it is noticeable that he does not state whether the mischiefs he has observed have resulted when the vesicles of revaccination have been normal or only

when spurious or injured. Another recent writer, Dr. Ballard, expresses himself thus: -" The general opinion in the Profession is distinctly opposed to the use of revaccination lymph at all. I cannot help thinking that there is a little prejudice in this, based upon the commonly incomplete character of a secondary vesicle. I have, however, seen revaccination pocks as fine and as well developed as any primary pocks obtained from the use of lymph such as is currently employed; and I cannot see myself why, in such a case as this, the lymph taken at a sufficiently early date should not be availed of when infant lymph is scarce, as it sometimes is in epidemic seasons. I know that in 1863 revaccination lymph was, as a matter of fact, largely made use of in the lack of primary lymph. But no one with a proper sense of the responsibilities of his Profession would presume to vaccinate from a pock that did not present to the eye the perfect characters of the vaccine vesicle." Neither does this author notice among the causes of post-vaccinal erveipelas, etc., the use of revaccination lymph, although he mentions, we believe, every other cause to which it had been attributed by previous writers, or in published cases of the accident. No doubt unfortunate results may follow the use of the best revaccination lymph, as they may the use of the best primary lymph, but unless a statistical record be furnished, showing that they are more common (in proportion to the number vaccinated) in the former case than in the latter, the mere fact of their occasional occurrence can hardly be fairly put forward as absolutely prohibiting the use of a good characteristic revaccination pock; and, strictly speaking, this is all that Dr. Scaton has done. He has observed cases in which crysipelas, etc., have followed the practice, and, without telling us whether the pocks used were normal or spurious, perfect or injured-whether there was areola or no areola-nor yet the day on which the lymph was taken, he utterly reprehends the taking of lymph from revaccination pocks; and Mr. Simon adds to this, "even when good." But, for all this, revaccination lymph is used. We have been at some pains to inquire privately of several Practitioners, who are known as careful and experienced men upon this subject, and although they naturally, and we think properly, have abstained from making their results public, yet they have assured us that they have on several occasions used revaccination lymph from very perfect and characteristic poeks, not only without mischief resulting, but with the result of producing fine and normal vesicles. We may venture to say even more than this. We were recently in conversation with one of the veterans in the Profession, to whom we owe one of the most important discoveries in connexion with vaccination, and whose name is henoused throughout the world-than whom, perhaps, there is none whose opinion on the subject can be more valuable-and he informed us that he had frequently availed himself, at a pinch, of revaccination lymph, and with the very best results, not only for secondary, but for primary vaccination also; and that, when the vesicles are well selected, he has observed no difference whatever, either as respects appearance or course, between the pooks thus created and those produced from the primary vesicles upon an infant's arms. But he addedthe revaccination vesicles selected should be perfect and characteristic, and the lymph should be taken rather earlier than usual, before a trace of arcola appears.

Let us guard against misspyrehension. We are discussing a scientific question—namely, whether revaccination lymph will produce normal pooks, and whether there is any special dunger from its use when the vesicles are absolutely normal—and the verifict of science seems to be an affirmative to the first part of the question, and a negative to the second. And this verifict, it sustained, as we believe it would be by an

extended experience, will be an inestimable relief to the minds of many conscientious Practitioners, who have not felt themselves warranted at any time or under any circumstances in breaking through a rule of practice which is sanctioned by the almost universal consent of the Profession, and is authoritatively laid down by our official guides. Nevertheless, it is to be kept in mind that the question is one rather verging upon the transcendental in practical Medicine. The cases in which it can arise are exceptional; and however true it may be that revaccination lymph may be used when properly selected and at the proper date with good results, and without evil ones, yet there can be no doubt that the preference should always be given to primary lymph from a healthy infant. Nor, indeed, do we wish to dispute the propriety of the ordinary rule of practice; to abstain from the employment of revaccimation lymph: The rule is a good one. Rules of practice are made for the multitude, 'not for exceptionally careful and prudent men, and they are therefore drawn from general and not from exceptional observations. Nay, more-in framing them, the very suspicion that evil may occasionally result from a particular line of practice must be allowed more weight than would be accorded to it in a mere scientific discussion. We adhere to the rule, as a rule which should generally be observed. Still we hold that there is no scientific reason why revaccination lymph should not be availed of occasionally under the conditions mentioned by Dr. Crisp-viz. :-- 1. During an epidemic season (when, by the way, revaccination appears to be unusually successful). 2. When primary lymph cannot be procured. 3. When the vaccinifer is absolutely free from disease or constitutional tales. 4. (Most emphatically) When the reviscemation vesicle exhibits in its course and appearance all the characters of a normal primary vesicle. 5. On condition that the lymph be taken about the mixth day, or before there is a trace of arcola.

THE WEEK.

Ar the meeting of Governors of St. Thomas's Hospital on Thurnday, the bith Mr. McCormon was alceted Ansistant-Surgoon to the Hospital. Mr. Barwell withdraw from the contest, which therefore key between Mccormo and West. The ballot cleared at three o'clock, when it was found that Mr. McCormae was elected by a large majority of votos. The nomination by the Grand Committee of Dr. Liebreich to the post-of-Ophthalmic Surgoon was confirmed by a unanimous vote. Mr. Wagstaff's appointment by the Grand Committee as Resident, Assistant-Surgoon was also confirmed.

Mr. 88Hy's resignation of his office of Examiner at the Royal College of Shippeon has left a vacancy in the Court, which the Council of the College will proceed to fall up on Wetnerday next. The 'Council will not necessarily shows as Examiner from iterown body, but may select from the general body of Fellows; but, on the other hand, as sea in the Council must certainly not be held to be a disqualification. Several probable candidates are naestionasi. Amongst them are Mossra. Birkett, Cutling's wall Felden, members of the Council, and Messra. De Morgan; Callender, Holmes, Power, and Wood. Any one of these genetics was worth to the service of the Council of the Service of the Service of the Council of the Service of London.

A deputation from the Foor-law Medical Officers' Association, and from the British Medical Association, had an interview with Mr. Simon, on Saturday last, on the subject of vacchastion. Dr. Rogries, the President of the Foor-law Medical Officers' Association, said side that the consolidation of vaccination districts had thrown too much work on one officer, and was unjust to the Medical officers who had discharged this duty, a number of whom had been dismissed to carry out the views of the Prity Council, and their work thrown spon those

remaining. He explained at length and recommended the Irish system of vaccination. Mr. Benson Baker pointed out the facilities which the Poor-law Medical Officers have of acting efficiently as vaccinators-for, knowing where smallpox existed among the poor, they would instantly vaccinate all the residents of a house where it showed itself. Mr. Harding represented that the system of payment for results only in revaccination involved hardship, inasmuch as revaccination was most important as a test, and involved as much labour whether pustules were produced or not. He held also that stational vaccinators should be paid for all vaccinations performed by them at their stations, whether of persons in or out of the district. Mr. Simon said that he would reconsider the mode of payment for revaccination, with respect to which he thought a case had been made out, and also, he thought, there was a case for the payment for vaccination at stations of extra-parochial cases. We are glad that the department of the Privy Council which Mr. Simon represents is propared to concede this. To make the payment for revaccination dependent on the complete success of the operation is, as every Medical man knows, as unjust as it is absurd, considering that in a large number of cases pustules cannot possibly be produced. Revaccination, however, is proved by the spread of the present epidemic to be essential to the immunity of a popu-

On Friday, last week, there was a meeting at the Charingcross Hotel, called by the British Medical Association, to hear a paper by Mr. Fairlie Clarke, and to discuss questions connected with the Medical relief of the poor. Dr. Heckstall Smith presided, and Sir Charles Trevelvan, Mr. W. H. Smith, M.P., Mr. Corrance, M.P., and some of the most active members of the British Medical Association were present. The general tenour of the speakers was in favour of making the poor more independent of public or charitable aid in sickness. Mr. Fairlie Clarke urged in his address the formation of provident self-supporting clubs as a remedy for pauperism. Sir Charles Trevelyan's speech was an echo of much that has been said in this journal. He said that the physical and moral evils connected with pauperism had mainly arisen from a suspension in some degree of the primeval law, " By the sweat of thy brow thou shalt eat thy bread." It had been suspended: for people in this city were born receiving relief; they were sent to school free; as they grew up, soup-kitchens and other agencies fed them: there was always free relief in sicknessand, in fact, from the cradle to the grave there were on all hands ready means of pauperisation. These vast charities which existed in London attracted people from all parts, and even from abroad, and the result was they overcrowded into this city, bred disease, and thus sowed the seeds which the Poor-law Medical Officer had to reap. We want, he said, a reform of our charities, especially of our Medical charities. He was in favour of the provident institutions proposed. Mr. Corrance, M.P., advocated the charging upon the Consolidated Fund of such expenses as Medical salaries and the cost of drugs. Mr. Smith, M.P., spoke at some length upon the chaotic condition of our sick-administration, as shown in the fact that not less than five 'departments, without co-operating with each other, had charge of something in connexion with vaccination. We trust that a thorough reform of the Poor-law Medical Service is at hand. The subject is attracting the attention of practical men, and Mr. Goschen's successor, Mr. Stansfeld, has before him a splendid opportunity for achieving distinction as a statesman and philanthropist, and, should be prove himself equal to the occasion, we are certain he will receive the active support of men of all parties in the House of Commons.

THE PROPOSED SMALL-POX HOSPITAL AT ISLINGTON.
WE learn that, in consequence of representations made to them,
the Asylum District Managers have abandoned the design of

converting the old Isington workhouse into a Hospital for small-pox in its acute stage, and propose now to use it as a place for the reception of convalescents from the other Haspitals; thus liberating a certain number of beds in the latter which were occupied by persons who were merely detained until it became aste to send them home. The building is to be given over to them almost immediately. We congratulate future sufferers on this change: so much the better for their chance of recovery.

LEGISLATION AGAINST ADULTERATION.

The effect of any legislation based upon the ideas so ably enumeriated in Dr. Leitheby's interesting paper, probably would be that the public, finding they were protected against the use of deleterious combinations alone, would proceed to protect thems three against the minor reil of harmless mixtures, by setting up co-operative societies or exercising greater caution in the selection of their tradesmen. At present, they are invited to undertake an invidious task. Scarcely smiticant confidence would be placed by the public in the label of an ordinary dealer, and although the absence of a proper label statched to wholesome mixtures would be reidence of fraud, the difficulty would always be to define what was a proper label; and to inspire a spublic confidence in its assurance.

MR. PORSTER AND THE "LANCET" MEDICAL BILL.

THE editor of the Lancet, accompanied by certain Medical gentlemen, has waited on Mr. Forster, to explain to him the various provisions of the Lancet Medical Bill. This was done by Mr. Brudenell Carter. They were supported by the presence of Dr. Anstie, Dr. Steele, Dr. Stallard, Dr. Glover, and Mr. Christopher Heath. Mr. Ernest Hart was also present. The gentlemen were introduced by Mr. Mundella, M.P., and, when they had expressed their views, Mr. Forster replied that "Their Bill was of a character to excite opposition, which would make the passing of the Bill hopeless, and they would have to educate up to it, not only the public, but the Profession, and that, so far as his information extended, the Profession did not agree with the scheme now laid before him, and that it had no backing. If it ever got into the House of Commons, it would have to reckon with the nineteen Corporations with which they summarily dealt. They seemed to distrust the Privy Council as much as the General Medical Council, and he could hold out no hope of Government support. Mr. Mundella would be able to inform them what chances such a Bill would have so introduced. He had understood that the Government Bill in its general features was considered as a boon by the Profession at large; and this had been confirmed to him by the statements of the British Medical Association. He was not a little surprised at being told the contrary. He thought it best to be candid; and he wished them good morn-Most London Practitioners will so far understand the proceedings as to thoroughly enjoy the joke.

ST. THOMAS'S HOSPITAL.—DR. DUCHENNE'S LECTURE ON LOCALISED ELECTRISATION OF MUSCLES.

INVITED by the authorities of St. Thomas's Hospital, Dr. Duchenne, of Boulogan, delivered a very interesting leture in the Museum theater of the Hospital on Monday, March of. Dr. Barnes, the Dean of the Medical School, acted as interpreter. He commenced by showing the action of the muscles of the hand, using, for the purpose of bringing out their action, a powerful galvanie apparatus lent by the National Hospital for Epidepsy. Mr. Wagstaffe rendered very material assistance to the Professor by demonstrating the action of his own muscles when stimulated by the induction coil. Dr. Duchenne showed admirably the movements obtained by stimulus applied to the different muscles, and even to the different bundles of compound muscles like the_common extensor and

flexors of the forearm. The results he obtained seemed to show condusively that certain muscles have not been correctly named, and that others have very peculiar actions; but we do not think the majority of these inaccuracies of nomenclature or peculiarities in the action of muscle have been nuknown or untaught in England-as, for instance, the action of the abductor pollicis, flexor brevis pollicis, interessei, and lumbricales. It was rather startling, however, when he showed the supinator longue to be a propator, and the extensor communis digitorum to have no action on the second or third phalanges. After this, he showed the action of the deltoid and serratus magnus, as antagonists to one another, the deltoid acting more upon the scapula than upon the humerus. He concluded the very interesting lecture by an account of the results he had arrived at in determining the action of the intercostals. His conclusions from clinical and physiological grounds agreed entirely with those demonstrated only a few weeks before by Mr. Wagstaffe upon anatomical and mechanical grounds. Most anatomists are of opinion that the external intercostals are inspiratory muscles. The relative action of these muscles has been always a subject of controversy, some anatomists, as Haller, considering that the two muscles have a common action in the direction of the diagonal between them. Others consider the internal intercostals as depressors of the ribs. Cruveilhier was of opinion that the intercostals are not essential agents in elevating or depressing the ribs; he considered that they render tense the intercostal spaces. Dr. Duchenne considers both internal and external intercostals to be inspiratory muscles. Some photographs Dr. Duchenne exhibited of cases of muscular atrophy bearing upon the subject were particularly interesting. They showed the result of loss of power in the intercostals in one case, and of atrophy of the disphragm in another.

THE HEALTH OF LIVERPOOL.

On Thursday, the 3rd inst., Drs. Parkes and Burdon-Sanderson commenced the inquiry into the sanitary condition of Liverpool which they were invited to undertake some time ago by the Corporation. Their opinion has been especially asked on the effect of the present disposal of ashpit refuse in levelling brickfields and filling up ponds, so as to construct foundstions for subsequent honses; on the methods of construction. ventilation, and trapping of the sewers of the town, and the effect of injecting into them steam and hot-water; and on the substitution of trough and syphon water-closets for privies and cosspits. They have also been requested to give their views on any other matters which might be considered by them to affect the general health of the town.

In the week ending Saturday, 26th ult., there were 129 deaths from small-pox in Liverpool, being an increase of twenty-four on the number in the previous week. Of the 129, fifty-nine were reported vaccinated, fifty-eight unvaccinated; and of twelve no return as to vaccination was made.

The Liverpool Mercury of Wednesday last says that the mortality from small-pox is rapidly decreasing, the number of deaths in the week having fallen from 129 to 89.

TESTAMENTARY CAPACITY .- AMERICAN LAW BELATING TO CAPACITY AND EVIDENCE IN WILL CARRO

THE question of testamentary capacity is one which must always give considerable trouble to lawyers and jurors, and every new phase of it must necessarily be interesting even to the general public, and especially to the Medical section of it. An American decision on this subject has recently been imported from the Supreme Court of Michigan, and is an opinion of Mr. Justice Christianev. It is thus stated-

"The question in this case was upon the validity of a paper claimed by the appellers as the last will and testament of Thomas Paterson, deceased. The main ground on which its

validity was assailed was that, at the time it was executed, the testator was not of sound mind, but that his mental faculties were so enfecbled by disease that he was incapable of understanding his relations to others, the particulars of his property, etc. It was not claimed that the testator had ever exhibited any symptoms of insanity, or any weakness of intellect after he was attacked with the disease of which he died, which was he was attacked with the disease of which he died, which was preumonia, or pleare-pneumonia. This attack was experienced some two days before the will was made, and he died on the presence of the totator, and duly witnessed and executed. The witnesses were a lawyer, named Clark, and Dr. Abbott, who on that morning saw him for the first time. He remained there during most of the day, and on the next day, about noon, another Physician was called in. The contestants offered the opinions of several Physicians who had not seen the testator during his illness, and the main question arose as to such a witness, which allowed him to decide upon the truth or falsehood of any evidence in the case, as this is entirely a questionable of the case, as the control of the case, as th same nous or any evidence in the case, as this is entirely a quastion for the jury. The facts which are to be assumed by the witness in giving his opinion must be distinctly stated and brought before the jury, so that, if they negatived these assumed facts, they may understand that the opinion is no longer of value."

FROM ABBOAD. - PROFESSOR BILLROTH'S LETTERS FROM THE SEAT OF WAR-CHLOROFORM AS AN ANTIDOTE TO STEYCHNIA.

PROFESSOR BILLBOTH commences his twelfth letter with some account of the mortality of the wounded that came under his notice. During the first week after the battle of Weissenburg, of the large numbers arriving and being evacuated it was not possible to keep any exact register. After this, he and his assistant, Dr. Czerny, took the cases of 220 patients, having severe wounds, and of these seventy-nine, or 35.9 per cent., died. This is an enormous mortality, but not greater than experience in military Surgery would lead one to expect. Of course its amount is, upon the whole, principally determined by the nature of the injury received, but there still always remains much to be done which may increase the chance of life. That gunshot wounds of the head and abdomen for the most part prove fatal, and that many cases of injuries to the chest, pelvis, and lower extremities will die, whether operations have been performed or not, is admitted by military Surgery. Pleased may we be for every step that enables us to vanquish by the weapons of science any of the border-land between tho dead and the living; and that we are entering on this struggle with renewed courage is itself a vast progress. The greatest trouble for military Surgeons of former times was that the simplest cases and the slightest wounds did badly in their Hospitals-patients with mere flesh wounds, and these in a state of healing, dying from erysipelas, Hospital gangrene, or diphtheria. These affections became endemic, not only in the Hospitals, but among the population of the towns, and gradually increased in severity. Such endemic or epidemic outbreaks of these "wound-diseases" have never occurred in any of the Hospitals inspected by Professor Billroth, and this is a progress that can only be appreciated by those acquainted with the ravages committed by erysipelas and gangrene described by the old military Surgeons. The necessity of fresh air as one of the most important factors in the life of healthy and sick is accepted now both by the Profession and the laity; and the ventilation question, as regards Hospitals and schools, the importance of sewerage, and many other sanitary maxims, have at last penetrated the minds of the elders of our towns. This popularising of sanitary police has admirably paved the way for the crection of Hospitals by our aid societies; and the wounded, truly, have to thank the men who have so untiringly laboured to enlighten public opinion on these matters. The Doctors and architects, upon whom devolved finally the providing accommodation in Hospitals with sheds, or in houses, found their working committees prepared with some knowledge of these matters, and ready to lend a willing ear. The rapid distribution of the wounded by means of the railways was as important as the providing them with erections in wellventilated localities. If all the wounded had to be treated, until their recovery, near the scene of action, how could suitable habitations be found or creeted with sufficient rapidity? and in case of accidental "wound diseases" breaking out, how numerous would be the subjects of infection among patients who are now distributed over all Germany.

Referring to these "wound-diseases," Professor Billroth observes that he had not a single case of erysipelas or hospital gangrene in his Hospital at Weissenburg. This fact is of great etiological import as regards these affections, speaking strongly for the specific nature of their cause that they are generated by a contagious miasus spreading from case to case. If hospital gangrone were due to defective care of the wounded, to improper applications of dressing and bandages, etc., in a war in which the wounded are transperted in all kinds of most unfavourable positions, plenty of it would be met with. From his observation of this disease, which only now and then is met with in the Vienna General Hospital, Billroth is convinced that it is conveyed from case to case, although we are not always able, any more than in measles, scarlating, or small-pox, to trace the route which the contagion has followed; and the question whether this last disease may not occasionally become developed afresh, is as little settled as it is with regard to hospital gangrene. At Mannheim and Darmstadt, two or three sporadic cases occurred; but by isolating the patients during treatment, all spread of the disease was prevented. These cases occurred in open, well-ventilated, not overcrowded sheds. It is thus evident that Hospitals, as such, are not the cause of the gangrene, although if unskilfully treated it may rapidly spread in them. As all kinds of wounds, in every stage of treatment, may be attacked by this gangrene, the condition of the wound bears no etiological relation to its occurrencethe disease being, in fact, communicated from without. In the two or three cases met with, the source of the infection could not be traced, although it was suspected that it might have been derived from charpie coming from a Hospital in which the gangrene existed.

Professor Billroth now holds similar views concerning erysipelas, although the poisen of this is very different from that of hospital gangrone. Formerly (Archie for Klin, Chir., B. ix.), he was of opinion that this disease might be generated by the decomposition of the patrefying blood remaining in the wound, giving rise to a septic erysipelas as distinguished from the infective form. Since, however, he has put cleanliness and disinfection fully into force, he has ceased to seeseptic crysipelas. only meeting with the infective form supervening on granula. ting wounds-the retention of decomposed blood or secretions giving rise to simple phlegmon. True crysipelas may occur at any stage of any wound, having nothing whatever to do with the healing process, the crysipelas poison being always an accidental importation from without. The fact that no cases occurred among the wounded at Weissenburg, and very few in the other Hospitals, shows that it could not arise from the mere condition of the secretions; for where could these be more disordered than during the healing of gunshot wounds, especially those of the joints? The immediate isolation of these few cases, and the good ventilation of the sheds in which they occurred, prevented any spreading of this fatal wound disease. In crowded civil Hospitals, it can sourcely be extirpated during the entire year, as it is always slipping in again, either from without, through the numerous cases of crysipelas of the head and face, or from the unavoidable intercourse between the different wards of the Hospital. We can get, indeed, a better mastery over Hospital gaugrene, its contagious materies being seemingly less volatile than that of erysipolas. In the latter, the contagion does not seem to be principally spread by the dressings employed, as in gangrene, but also by means of the attendants, and perhaps, also, from a distance by the air. In a

note, Professor Billroth states that he has been informed that, after he left Mannheim, numerous cases of crysiples appeared in the crowded hospital sheds, many of which were of bad character, and fatal. It is obvious that the sheds per as are no protection against the disease, and as soon as cases occur they should be isolated, or, better still, the infected shed should be shandoned. These sheds also should not be too large, as they are then more convenient for erection, and a greater number of them are at disposal, one or more remaining unoccupied for the reception of patients while their own sheds are undergoing cleanasing.

During the present campaign, Professor Billroth has met with a wound-disease which he had not seen before, and which he terms "diphtheritic phlegmon," or "diphtheritic infiltration." He relates three cases in which the diphtheritic appearance occurred soon after operations, and was speedily followed by fatal collapse. The entire muscular structure of the part becomes hard and stiff, from an indurated infiltration, the surface of the wound being of a pale grey. The affection is especially distinguished from gangrene by an absence of any rapid increase of the ulcerative process and of inflammatory redness in the vicinity, the surface of the wound exhibiting a lardsceous whiteness, and not the greasy pulpousness of hospital gangrene. The broad, hard infiltration so soon following the operation, it might seem to be due to contagion by means of the dressings employed, but this is hardly probable. In its sporadic form it seems especially to affect the subjects of septic or pysemic disease, and perhaps the existence of a certain condition of the secretions inclined to congulation may favour its production.

In only one patient had Professor Billroth opportunity of observing triansus or tetanua, and even in this osse, so produce was the suppuration that it would have readily explained death, without the trismus. His assistant met with three cases, with like abundant discharge. From former close observation of the disease, he is of opinion that cases of trismus, or tetanus, do not, as has been supposed, arise from traumatic neuritie ascendens. The fact that the disease is not connected with any particular condition of the wound, but may occur in connexion with good or bed suppuration, deep or superficial, large or small, or even healed wounds, renders it probable that it originates from the importation of some external agent.

Dr. Gobrecht, Professor of Anatomy in the Medical College of Ohio, has a case in the Transactions of the Pennsylvania State Medical Society (an abstract of which is given in the Boston Journal for December 15), which, although defective in some of its details, is of considerable interest. He was called on December 5, 1867, to see a man of about 20 years of age, who was taken suddenly ill. He found him in a state of profound repose, with regular but rather laboured breathing, bordering on stertor; the pulse was full, and pretty regular, though not forcible. He was insensible, pinching and shouting making no impression on him, and he could not swallow. The first impression was that he was suffering from poisoning by opium, but on examination the pupils were found The nature of the poison probably taken being uncertain, it was determined to keep up respiration by aid of an electro-magnetic machine while this was eliminated from the lungs. Changing the position of the patient from his back, on which he had been lying for several hours, to his side, a corked bottle containing a small quantity of fluid with a few shining crystals was discovered. A hasty analysis disclosed that this fluid was a saturated solution of strychnine in chloroform, with crystals in excess; and the calculation was made that, if the bottle had been full when its contents were taken, it must have contained an ounce of chloroform, with at least fifteen grains of strychnine. An hour elapsed before the electrical machine could be brought into operation, the patient continuing "in the same quiet condition, without a single strychnine symptom, though somewhat depressed, and evi-

deatly angesthetised, which state the analysis of the fluid seemed to throw some light upon." Electro-magnetic currents were passed regularly from the nape of the neck to the pit of the stomach, and continued for more than hour. During this time sensation and consciousness gradually returned, the patient recognising those about him, and sleeping, with brief intervals, tranquilly. From this time he gradually recovered, and on the 11th was removed to his distant home, the journey being reported to have been attended with insensibility which lasted thirty-six hours. When he took the poison he was in custody of the police on some charge, and after his recovery he admitted

which he had obtained prior to incarceration. "It would thus appear that the patient had taken before I saw him seven-eighths of an ounce of a saturated solution of strychnine, with crystals in excess, in chloroform, both by inhalation and ingestion, without any other result than complete and prolonged amesthetisation, and some temporary subsequent numbness, with no known injurious consequences after two months had clapsed. The case is reported as a contriancer we moments must capsed. The case is reported as a contribution to toxicology, somewhat peculiar, as the dryshmine effects seem to have been destroyed from the beginning. It is therefore, perhaps, more marked, as far as the antidotal property of chloroform is concerned, than those quoted in the 'United States Dispensatory,' twelfth edition, 1855."

having swallowed a mixture of chloreform and strychnine,

In corroboration of the antidotal effects of chloroform in strychnine poisoning, Dr. Atlee relates the following case :--He was called, August 1, 1857, to a man 60 years of age, of herculean frame and great muscular strength, who was labouring under violent spasms. Tried on a criminal charge, under an erroneous impression that he had been convicted he was observed to drink what was supposed to be poison. He obstinately refused to take remedies of any kind, and when seen afterwards by Dr. Atlee was labouring under violent tetanic spasms. With his closed jaws, full set of teeth, and great muscalar strength and determination, the application of the stomach-pump was impossible, and chloroform was employed by means of a folded napkin applied to the month and nostrils. This he tore away, and it was not until he was held down by several persons that the chloroform could be administered. In a few minutes after this it produced its effect, the whole muscular system becoming relaxed, and the patient remaining for ten or fifteen minutes perfectly quiescent. As soon as he was restored to consciousness an entire change in his state, both moral and physical, had taken place. The spasms had left him, his countenance was calm, and he complied with every request. He took an emetic which completely evacuated the stomach. The fact of his stomach containing a portion of his dinner when he swallowed the strychnine (twenty grains of which he had purchased) probably prevented its rapid absorption. From the period of the inhalation he continued to do well, complaining of nothing but weakness, and the next day he was enabled to appear before the court.

THE EXPENSES OF CORONERS FOR THE COUNTY.

MIDDLESEX SESSIONS.

was presented, which recommended the following coroners accounts for payment:—Mr. Humphreys, 257 inquisitions, 410 Sec. 1Dr. Lankester, 251 inquisitions, 2644 14s. 6d.; Dr. Diplock, 80 inquisitions, £178 19s.; and Mr. Bedford, 28 inquisitions, £34 18s. THE report of the Committee of Accounts and General Purposes

CAPTAIN MORLEY, in moving the adoption of the report, said he wished to call the attention of the court to the fact that, although Dr. Lankester had held six inquests less than Mr. Humphreys, he had claimed £174, as expenses, mere than Mr. Humphreys, although, as far as he was able to discover, an: Humphreys, antonign, so far ha no was and to discover, the circumstances under which the inquests were held were much the same, and it was only to be explained that Dr. Lankester put in motion the most expensive machinery he possibly could; for while the inquests held by Mr. Humphreys averaged, for expenses, £1 16s. 6d., those held by Dr. Lankester averaged £2 11s. 4d.

Mr. NORTHALL LAURIE remarked that the reason of this wa that one was a Doctor and the other was a lawver. He found that inquests were held in cases of persons dying of small-pox, which was the effect of electing a Medical coroner. Instead of confining them to criminal cases, there was an unlimited supply of post-mortem examinations, and one reason for this was that the beadle got half-a-guinea out of the two guineas allowed for making them.

The CHAIRMAN said that, comparing the present with the ast year, there was an increase in the coroners' expenses of no

less a sum than £840.

Mr. H. Pownall said that evil arose from the very objectionable way in which coroners were elected, for they would be sure to take some means for reimbursing themselves for the expenses they had incurred in their election.

The subject was referred to the Parliamentary Committee, to

take such steps as they might suggest in reference to the

Coroners Bill at present before Parliament.

. . Is it true that the beadle gets half-a-guines out of the two gniness allowed for a post-mortem examination? The mode of election to coronerships is bad, and the coroner's court altogether an obsolete institution; but what it does should be done efficiently, and this cannot be without postmortem examinations

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the

			und	erment	ione	d Disti	ricts.							
						Week ending								
	Dis	tricts			ŕ	eb. 18.	Feb. 25.	Ma	rch 2.					
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	Chelsea					10	12	9	_					
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1	St. Margaret Westmins	t's aı	ad St	. John	(8,)	100	47	30	1.2					
1	St. James's,					14	.8	3	- 3					
No	втн													
	St. Paneras					9	64	62	2					
	Islington					36	31	62	:8					
	Hackney	:		- 1		9	30	36	14					
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	City of Lon	don				2	20	22	ä					
	St. Giles's-in			dde.			10	1	- "					
	Holborn	4-111	D- X 00	MUS	•	14	5	2	1					
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	стн—						-							
2	St. Mary's,	New	ingt	on.		25	8	16	1					
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	Bermondsey					P	20	15						
	Lambeth					18	28	12	- 7					
	Clapham		٠,			*	5	28	. 2					
	Battersea					2	14	8	*					
	Wandsworth	2				₽	5	4	7					
	Putney .			+		*****	******							
	streatham					ž	2	1	. 1					
	Camberwell					- 2	ő	26	- 67					
	Freenwich		٠.			P	-	2	2					
	ewisham					2	2	1	1					
I	Plumstead						4	1	100					

DISCOVERY OF ROMAN HOT SPRINGS. - A leakage having occurred in the hot springs of the King's-bath, at Bath, some excavations have been made in Abbey-place, with a view of discovering the cause. At a depth of twenty-two feet from the surface, two new springs have been discovered, yielding at least twenty gallons per minute, at a temperature of 110°.

AUTOBIOGRAPHICAL RECOLLECTIONS OF THE PROFESSION.

No. XI.

By J. F. CLARKE, M.R.C.S., For nearly forty years on the Editorial Staff of the "Ladeet."

Discursice Writing—Choice of a Profession—A Medical Philosopher—Medical Botany—Establishment of the Police Force— A Police Surgeon—Murder of "the Italian Boy"—The Anatomy Act—The Old Resurrestionists.

Mr. Tristram Shandy makes no apology for the discursive nature of his style in his "Life and Opinions," and is content to wander on in his narrative from "grave to gay." Following the example of that illustrious writer. I have in these papers formed no particular plan for my guidance. Though fully impressed with the force of the rebuke conveyed in the exclamation of Horace, "O imitatores, sereum pecus!" I must continue to adhere to my no-system mode of writing. It has this advantage to the writer-that it enables him to write that which comes uppermost, and, as it were, on the spnr of the moment; and the reader is not, or may not be, wearied by a too elaborate essay. At all events, as I wish to make every paper as complete as possible in itself, the reader can follow or not, at his will, the lucubrations here published. Like my uncle Toby, I have no desire to "puzzle my brain with abstruse thinking," or to annoy the reader by trying to unravel what I have so thought. Something instructive and interesting might be written on the circumstances which influence a boy or man in the choice of a profession. From some little experience in this subject, I am doubtful whether " accident" is not often more at work in the matter than any plan of action devised and steadily carried out. It seems questionable to me whether Cowper was entirely right in his observation-

"God gives to every man
The virtue, temper, understanding, taste,
That lifts him into life, and lets him fall
Just in the niche he was ordained to fill."

This seems scarcely compatible with the fact that, if we have reverend divines, we have irrevent once also; and we have had judges good and great as Hale and Mansfield, and as wicked and ase mean as Jeffreys. Still, accident, or "Providence," or some cause undefinable or undefined, does seem to place men often in the right place, in spite of all preconceived winks or ideas. Had Fergasson been a town boy instead of a shepherd's son, it is adoubtful whether he would have been one of the most profound and original of astronomers. Circumstant of the proposition of the proposition canuciated above. Well, what has this to do with my paper or say career? I may answer, little or nothing, except that, "magnis componere parva," it may have a certain interest to all of us.

I entered the Profession of Medicine because our family Doctor took some fanny to me, and I a great fanny to him. He was one of the old school, in practice before the Act of 1816, and was contented to style himself "spothearry and man-mid-wife." He was a kind, genial, fatherly man, and I was inherent to the control of t

translate prescriptions and dispense them? The answers being satisfactory, I was forthwith given a letter of introduction to Dr. John Stevenson, then in practice, or rather professing to practise, in High-street, St. Giles's, or, as it was more cuphoniously styled, "Bloomsbury." Here, in a little open shop, retailing pennyworths and prescribing eighteenpenny mixtures, lived one of the most remarkable men of the time. was the senior editor of "Stevenson and Churchill's He was the seasor entor of "Selvensow and naturalist," was a profound naturalist, an emissist upon the fiddle like an angel." He was a man of very eccentric habits, and a bachelor. He spent most of his time at Coombe Wood, Hampstead Wood, or some of the woods within a few miles of London, collecting botanione woods within a rew miles of London, collecting botani-cal or entymological specimens. He never rode anywhere, nover spent a shilling in carriage-hire, and was most abste-mious. His shalt was to breakfast about eight, which he always did in his shirt-sleeves, to save his coat. Except in winter time, be was without his coat in the evening. He would leave home about eleven, returning at four or five with his specimens and would send some time in arrangions. with his specimens, and would spend some time in arranging them, placing the grubs in flower-pots, etc. He would devote part of the evening to reading, or writing his works, and usually ended the day with a long spell upon the violin. He took but two meals a day, and these consisting of the plainest We seldom dishes. Our conversations were not very lively. We seldom met but at meal-times, and at dinner one source of his astonishment, if not his approvance, was that I required bread in addition to potatoes or other vegetables. He was a handsome, fair man, upwards of six feet in height, strongly built, and upright man, upwards of sax feet in height, strongly built, and upright as a dart. He had no views or sympathies beyond the sciences whether political or social. He lived to a great age, and died only a few years since. My continuance with him was only for a few months. During that time I was intrusted with taking to the artist who ullustrated the "Medical Bottany". taking to the artist who 'llustrated the "Medical Botany" specimens of plants and flowers, and giving him instructions respecting them. My leisure time, which was far too great, was taken up with reading, writing, and studying the numerous was taken up with reading, writing, and studying the numerous different man. James Morse Churchill, then in the prime of different man. James Morse Churchill, then in the prime of different man. James Morse Churchill, then in Park-street Grosvenor-square. He was of genial and affiable manners, and "cut out," by appearance, manners, and acquirements, for a "Doctor." But he sered on the opposite side to his friend made his botanical excursions pretexts for a day in the country made his botanical excursions pretexts for a day in the country a drive behind "a dashing bay." and a dinner at some tavern or hotel, from which he returned late in the evening. The work to which allusion has been made, "Medical Botany," was published by John Churchill in monthly parts, price 3s. 6d., and was illustrated by copper-plate engravings coloured from nature. There had been no work of the kind up to that time which There had been no work of the kind up to that time which could bear comparison with this, either as regarded it typography, or the beauty and truth of its illustrations. It was the first work of any consequence that John Churchill published; but it afforded early evidence of the enterprise and Stevenson, with whom I found it impossible to agree, I was afterwards bound apprentice for five years to Mr. Charlos Snitch, a Surgeon in general practice in Brydges-street, Covent-garden. His practice, when I joined him, was small but telect. It is curious, however, that, even so late as that (1828), he had not a single patient on his books who did not pay for Medical and the Christians bills contained every time as also brackly and the Christians bills contained every time as alsobrative. and the Christmane by the quantity of physic sent in to him; and the Christman bills contained every item as elaborately set forth as in a lawyer's or carpenter's bill. No more vicious system of payment could have been devised, either as regarded the welfare of the nation of the nation. system or payment coins have seen netwee, enture as regarden-ton welfare of the patient or the position and common and how the patient of the patient of the patient of the patient of the now all but a "thing of the past," and never can exist again as it once existed. I had a good deal of time on my hands, was very much confined to the Surgery, sometimes not leaving the house for weeks together. I had, fortunately, the run of Cadell's books-the then representatives of the Blackwoods in Cadell's books—the then representatives of the Blackwoods in London—and was seldom without some works of interest to read. Cadell's abop was in the Strand, facing Catherine-street, and was conducted by a kind-hearted old gentle-man, named Buckman, a friend of my uncle, who never thought is a trouble to change my volumes as often as I pleased, as if I had been a subscriber to a library, instead of being my and the subscriber of the subscriber of the subscriber of the committee of the subscriber of the subscriber of the subscriber of the committee of the subscriber of the subscribe

I was soon, however, destined to be more occupied. In 1829 the metropolitan police was established by Mr. Peel, and my master was appointed by SirJohn (then Mr.) Fisher Superintendent-Surgeon to the Fdivision of the force. This division, which included most of the theatres and some of the work and lowest neighbourhoods, had from time immemorial been the roughest and most "larking" part of London. It was the scene of most of the exploits of Tom and Jerry, and from one week's end to another, particularly after dark, was fruitful of riots, streetfights, pickpocketing, and the lowest debanches. At that time the public-houses were allowed to keep open all night, and the public-houses were allowed to keep open all night, and even on Sundays were only closed during the hours of "dirine service." It may readily be conceived what a frightful state of things prevailed, particularly as there was no regular police force, the "Bow-street runners" devoting themselves to the detection of crime, and the old watchme—the "Charlies"— detection of crime, and the old watchme—the "Charlies" being all eld men, and quite incapable of quelling a disturbance or taking an offender into custody. Of course, the new police in this neighbourhood were regarded in no friendly spirit, and many were the wounds and contusions which we had to attend to in consequence. The duties of the police Surgeon in this district were by no means pleasant; he had to deal mainly with two sets of men—one "fresh and green from the country" the other the old Bow-street "robin redbreasts," who had been incorporated into the force. The first were the fools, the other the knaves. The fools often shirked duty from fear, the knaves from gaiety or worse. It was necessary, if a police officer were taken ill and unfit for duty in the night, for him to present the first few months of the establishment of the police, these calls became so numerous as to become a perfect nuisance, and we were obliged to exert great diligence and severity to pre-vent the plea of sickness being abused; as it was, it was very

vent the piece of sickness being abused; as it was, it was very difficult to prevent cheating and malingering.

During my apprenticeship, the murders of Burke and Hare in Edinburgh had been imitated in London by Bishop and Williams. These worthies had carried on the traffic in mur-Williams. These worthies had carried on the traffic in mu-dered bodies, it is believed, for a considerable time. Their currer was brought to a close by the murder of an Italian boy, whose body they had taken to King's College to sell. The present Professor Partridge was then Demonstrator of Ana-tomy in the College. His suspicions as to the body and the men were aroused by some appearances be observed, and he accordingly told Bishop and his companion to call for payment the following day. In the meantime, investigations and exa-mination of the control of the control of the control of the supervision of the control of the control of the control of the supervision of the control of the control of the control of the supervision of the control of t miniations were made, and the men, on presenting themselves, were arrested; they were eventually tried for murder, convicted, and executed. I well remember seeing the body of Bishop on the dissecting-table at the Little Windmill-street School. As an inquest was ordered to be held on the boy, the body was removed to the Covent-garden watch-house-a miserable hole, long since taken away, but then situated at the south side of the portice of Covent-garden Church. The duty of examining the body fell on Mr. Wetherfield, then, and still, a examining the body fell on Mr. Wetherfield, then, and still, a Surgeon, residing at the corner of Sonthampton-street. The others present were—Mr. Mayo, then Locturer on Anatomy at King's College, Mr. Partidge, his Demonstration; Mr. Beanand, and the sum of the present were present were present which the police Surgeon. The day selected for the post-mortem examination was Sunday. It was extremely hot, and the sun full upon the little room on the first floor, where we were assembled. I well resolbed most of the hindents of the affair, which hasted a destitist, and with this exception there were no external marks a destitist, and with this exception there were no external marks. considerable time. The boy's teeth had been removed for sale to a dentist, and with this exception there were no external marks of violence on any part of the body. The internal organs were carefully examined; there was no trace of injury or poison. Mr. Mayo, who had a peculiar way of standing very upright with his hands in his breeches pockets, said, with a kind of lisp that—if you you do nathral death." Mr. Partridge and Mr. Beaman, however, suggested that the spine had not been examined, and after each some consultation, it was determined. not been examined, and after a short consultation, it was determined to examine the spinal column. Upon this being done, one or more of the upper cervicel vertebre were found fractured. "By Jore!" asid Mr. Mayo, "this boy was murthered." To Mr. Partridge and Mr. Beaman is, I think, due the discovery of the murder. It appeared that it was the custom of the nurderes to strike their victim on the upper part of the spine, and when insensible to place him head forement in a waterbut. Forty years, nearly, have clapsed since that day, but I have so vivid an recollection of it that I almost feel, on reflecting upon it, the terrible weakness I experienced, 16. Tobin, W. 1825 the want of tood, and the then horrible task which was in 17. McNamars, J. 1835 posed upon Edwards and myself of sewing up the body when I & Bradford, H. 1795 the rest were gone ! Of the six who were present on that 19. [Robinson, R. III. 1795]

day, four are still alive; two—Mayo and Edwards—are gone. Of the four remaining, if they have got somewhat older, they at least retain some of their outhrid fire, some of their wonsted energy. With the trial and execution of Bishop and Williams, the system of "Burking" came to an end; but there is too much rose on to believe that it was carried on to a very great extent in London. Many persons had been missed, and were never afterwards heard of : it was naturally supposed they had been murdered and their bodies sold for dissection. they had been murdered and their bodies soid for dissection. And here it may not be out of place just to say a few words respecting the position of the anatomical schools, teachers, and sudents, previous to the passing of the Anatomy Act. Nothing could have been more unsatisfactory and disgraceful to us as a civilised nation. The outrages against decency, the misdemeanours, which the law was compelled to wink at continued long after the necessity for a change had been demonstrated. The low ruffians who acted as "resurrectionists" were, to a certain extent, necessary evils, but they were the lowest of the low, and would stop at nothing to obtain their ends. He who recollects the passing of the Anatomy Act will remember how, for three or four years after, ho was frequently in the evening waited npon by an ill-looking rascal, who solicited assistance. "I was one of them, sir," he would say, "whose lost their work by the Anatomy Act." One could scarcely refuse such an appeal, seeing how much we were indebted to the applicant. This kind of application died out indepted to the applicant. This kind of application died out in time, and it is now probable that not a single "resurrectionist" is in existence. But it is awful to contemplate the amount of crime of a worse kind which must have been com-Wretches who held human life as a mere marketable mitted. wretenes was need numan into as a mere marketime commodity must, to have lived, committed many murders. Even now the Anatomy Act is imperfect. The inspector should have more power conferred upon him; so that the supply of bodies, under proper regulations, should be equal to the demand. No one could have carried out his duties with more energy and prudence than the present inspector; but he is hampered in his efforts, and thwarted in his endeavours to make the supply sufficient. Of late, however, we are glad to say there have been fewer complaints of a deficient supply than in former years.

SUCCESSFUL COMPETITORS FOR THE OFFICE OF ASSISTANT-SURGEON IN THE ARMY.

THE Director-General of the Army Medical Department presents his compliments to the editor of the Medical Times and sense nas computeents to the cuttor of the Medical Times and Gazette, and begs to enclose for insertion a list of candidates who have competed successfully for appointments in her Majesty's British Medical Service at the examination held at the London University on the 20th ult. Army Medical Department, March 3.

List of Gentlemen scho Competed Successfully for Appointments as Assistant-Surgeone in her Majesty's British Medical Service at the Competitive Examination held at the London University on February 20, 1871.

Order			Order	
of	Names.	Marks.	of Names.	Marks.
merit			merit.	
1.	Crombie, A	2670	20. Charlton, W. J.	. 1755
2.	Stuart, G. B	2420	21. Martin, J. W.	. 1750
3.	M'Cracken, J. A	2130	22. Gabbett, P. R. D	
4.	Irving, L. A	2120	23. Joynt, E. H.	. 1735
5. 6	Beamish, J. M	2105	24. Saunders, W. E.	
6.	Clery, J. A	2105	25. Palmer, C. De M	. 1710
7.	Coats, J	2035	26. Anthonisz, A. H.	
8.	Cruickshank, R. B.	196u	27. Finlay, W	. 1670
9.	Molloy, O	1930	28. White, W. L.	. 1655
10.	Fawcett, W. J	1910	29. Exham, R	. 1615
11.	Williamson, J. G.	1895	30. O'Connell, M. D.	. 1605
12.	Leckie, D	1855	31. Sullivan, W. P.	. 1600
13.	Jovnt. H. W.	1850	32. Harman, R	. 1590
14.	Movlan, W. J	1640	33. (Rnxton, J	. 1570
15.	Leake, G. D. N	1835	34. Wilson, J. B.	. 1570
16.	Tobin, W	1825	35. Ward, E. C. R.	. 1485
17.	McNamara, J.	1815	36. Dickson, J. R.	. 1465
18. (Bradford, H	1795		

REPORT OF THE ROYAL SANITARY COMMISSION.

SANITARY LAWS.

On April 20, 1869, was issued the Royal Commission to inquire into and report upon the Sanitary Laws in England and Wales, with the exception of the metropolis, so far as those laws relate to sewerage, drainage, water supply, removal of refuse, control of buildings, prevention of overcrowding, and other means of promoting the public health. The Commission was also to inquire into, and report upon, the operation of the laws for preventing the introduction and spreading of contagious and infectious diseases and epidemics; the administration of the sanitary laws; that part of the registration system which relates to certificates of the causes of death; and to suggest improvements and the means of carrying them out. The Commissioners appointed to conduct this important inquiry were Sir Charles Adderley, Lord Romney, Lord Ducie, Lord Robert Montagu, Mr. Russell Gurney, Mr. Stephen Cave, Sir Thomas Watson, Colonel Ewart, Mr. J. R. McClean, Mr. Samnel Whitbread, Mr. John T. Hibbert, Mr. E. M. Richards, Mr. George Clive, Mr. F. S. Powell, Mr. Benjamin Shaw, Mr. Paget, Dr. Acland, Dr. Christison, Dr. Stokes, Mr. John Lambert, and Mr. F. T. Bircham. During the period of nearly two years over which their labours have extended, the Commissioners have been almost nnceasingly at work, and their Report, just issued, bears ample testimony to the zeal with which their inquiries have been prosecuted.

The report opens with an exhaustive history of the existing sanitary laws, which, by showing the confusion of authorities, chemes, and areas resulting from tentative legislation, forms in itself a complete justification for the issue of the Commission. The first sanitary law in the Statute-book was the 12th Richard II., cap. 13, which imposed a penalty upon persons casting animal filth and refuse into rivers and ditches. This Act was passed in 1388, and even now, after the lapse of nearly five hundred years, we have not as a people sufficient sanitary education to obviate the necessity for fresh legislation with a like object. This statute continued in force until 1856. The Commissioners deem it not unworthy of note "that the Court Commissioners deem it not unworthy or note "that the Court Rolls of Stratford-on-Avon show that, in 1552, Shakespeare's father was fined for depositing filth in the public street, in violation of the by-laws of the manor; and again, in 1558, for not keeping his gratter alone."

for not keeping his gutter clean.

It appears that extraordinary outbreaks of pestilent and contagious diseases have been necessary from time to time to direct the attention of the Legislature to the need of sanitary law. More especially has this been the case with the cholera, three outbreaks of which led to investigations, and so drew attention to the fact that the seats of endemic disease are generally where the air and water are polluted. The ravages of Asiatie cholera in 1831 led to the first move in sanitary reform, and the results of inquiries which followed presented sanitary difficulties of such unprecedented magnitude as to be at once novelties and puzzles for legislative treatment. A mass of piecemeal legislation fol-lowed at irregular intervals, including the Lighting and Watching Act, 1833; the Municipal Corporations Act, 1835; the Registration Act, 1836; the first Vaccination Acts, 1840 and 1841; the Nuisances Removal and Diseases Prevention Act, 1846; the Towns Improvement Clauses, etc., Acts, 1847; and, in 1848, the Public Health Act, which the Commissioners style "the first great and comprehensive measure which may be called the groundwork of our sanitary legislation. Act, however, was marked by the blemish which, as we shall hereafter see, the Commissioners deem one of the most fruitful causes of past failure-" It did not come into force in any locality unless petitioned for by ratepayers, or enforced by the Board of Health npon evidence of an exceptionally high rate of mor-

At this time was established the General Board of Health. consisting of a president and two other persons appointed by the Crown, to continue for five years. In 1848 was also passed the Nuisances Removal and Diseases Prevention Act, and in 1849 the amending Act. It should be noted, as showing an increasing confidence in sanitary legislation, that these Acts were permanent, whereas the similar Act previously passed had been for a limited period only.

In 1849 came the second visitation of cholera, and the in-

quiries to which it gave rise clearly traced its most fatal

ravages to overcrowding, impure air and water, and foul streams. It was followed by the Common Lodging-houses Acts of 1%1 and 1852, and the Metropolitan Water Act, 1852. Drainage, to, began to be more actively applied, but with the anomalous result thus referred to in the Report:—
"Encouraged by the facilities which the Public Health Act,

1848, offered, the towns began to carry out large works for their own sewerage and drainage, taking the rivers, on which most of them had been situated [dependent?] for water supply, most of them had been situated [dependent?] for wasre supply, as the means of discharging what they simply looked upon as refuse, regardless of the loss to thermselves of pure water, of the valleys through which these poisoned rivers were afterwards to flow. Thus men and cattle suffered by drinking from a polluted stream, which should have afforded a pure supply to both town and country, whilst the towns were throwing to waste that which should have been employed as a valuable manure by the country, and the only remedy was by costly and tedious actions at law and suits in Chancery

A glance at England after an interval of twenty years shows numberless towns still diligently repeating the process above

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In 1854 the third visitation of Asiatic cholera came, and its immediate effect in inspiring the Legislature with renewed activity was remarkable. A Consolidated Nuisance Removal Act, passed in 1855, was substituted for the Acts of 1848 and 1849. and also in 1855 was passed the Discases Prevention Act. The separate treatment, in the same year, of "nuisance removal" separate treatment, in the same year, of "numance removal and "disease prevention," as subjects distinct from general sanitary administration and from each other, illustrates very aprly the casual and experimental course of legislation which has led, not only to confusion between provisions of like intent, but to the repetition of subjects in parallel enactments. out to the repetition of subjects in parameter enactments. This confusion has been further increased by the fact that the authorities instituted for special parposes have been frequently the same as the general authorities, under special designations. In the year 1854 the Board of Health was reconstructed,

and its Continuance Act of 1855 authorised the appointment of a paid Medical Council. This year was a remarkable one in sanitary history, for then was invented, by the 18th and 19th Vict., cap. 115, the paid Medical Officer, first of the Board of

Health, and subsequently of the Privy Council.

Although the metropolis is ont of the scope of the inquiry, the Commissioners mention, as strikingly indicating the turn which public opinion was at this time taking, the passing of the 18th and 19th Viet, esp. 120, under which provision was made for the appointment of a Medical Officer of Health and an Importor of Nucsanoes by every vestry in the metropolis. "The former officer is a legally qualified Practitioner, and his duties are to district, to ascertain the existence of diseases, to point out the existence of any nuisance, and to give advice on the best sanitary expedients of all sorts. His practice is to consult always the books of the Registrars, and of the Hospitals, Dispensaries, workhouses, and all public institutions affording sanitary information. The latter officer sets the law in motion. In 1858, the General Board of Health was allowed to expire,

and the Local Government Act was passed. That Act, with the Public Health Act of 1848, constitute the principal sanitary legislation now on the Statute-book. What may be called the general laws are thus summarised in the Report :- The Public Health Act of 1848; the Local Government Act of 1858; its two Amendment Acts of 1861 and 1863; the Diseases Prevention Act of 1855; the Nuisance Removal Act of 1855; its three Amendment Acts of 1860, 1863, and 1866; the two Sewage Utilisation Acts of 1865 and 1867; the two Sanitary Acts of 1866 and 1868; the Sanitary Loans Act, 1869; and the

Sanitary Act, 1870.

In addition to these, there is a host of subsidiary and special Acts, bearing most materially on sanitary interests, though not to be reckoned as part of the general legislation on the subject, at the provisions of all of which the Report glances. We cannot here even name them all. They are such, for instance, as the Burial Acts, Workshops Acts, and Acts relating to Lodging-houses, Vaccination, Contagious Diseases, Adulteration of Food, Pharmacy, Alkali Works, Smoke, Adulteration of Food, Phara Quarantine, and Registration.

Our review of this portion of the Report has so extended as to necessitate the postponement of a consideration of the remainder. But it has seemed well to go somewhat fully into the state of the present annitary law, if only to enhance the satisfaction afforded by the recommendation of the Commissioners in regard to its improvement. Their resolution on this part of the subject is as follows:—"That it is desirable to

make law concerning public health as simple and uniform as masse aw concerning puone nearth as ample and uniter as possible, and, with a view thereto, to repeal, as far as may be praeticable, the existing general Acts, and to make amended and more extensive provision, in respect of their subject-matter, by one comprehensive statute."

[To be continued.]

ON THE INFLUENCE OF MOISTURE IN THE PROPAGATION OF ERYSIPELAS.

THE fact that crysipelas has for some time been so prevalent in the Melbourne Hospital as to have become an endemic disease in that institution is fully recognised by its Medical staff; but, ns man institution is unly recognised by its itselfical staff; but, as yet, if an article in the Argus for December 29 is to be trusted, they have entered into no combined plan of action with the view of arresting its progress, and each Surgeon does what he thinks best to keep the dreaded enemy out of his own The subject has been more than once brought before the notice of the Medical Society of Victoria, and, to quote the the notice of the memoal society of victoria, and, to quote the words of the Argus, "it has furnished the occasion for a scientific speculation by that industrious worker in pathological science, Dr. Day, of Geolong." In a paper which he read at the December meeting of the Society, he shows experimentally how—on the assumption that pus-cells, probably of a specific character, are always concerned in the causation and diffusion of crysipelas and other allied affections, as pyremia, and Hospital gangrene—a moist atmosphere promotes, and how a dry atmosphere retards, their spread.

"In 1868." he observes. "I had the good fortune to discover very delicate test for pus, and have since been in the almost daily habit of applying it, in conjunction with other tests, as aids to diagnosis. In this way I have learnt some very interesting facts regarding the properties of pus. For instance, I have found that healthy pus, when dried, becomes chemically inactive, although, when moistened with water, it again resumes its chemical activity. I have found that strumous pus possesses much less chemical activity than pus derived from healthy persons, and that the pus from persons suffering from diseases allied to erysipelas possesses unusual activity, which it is capable of retaining for years.

which it is capable of retaining for years.

"On this paper are two spots of pus which had been allowed to dry by exposure to the air. To one has been added the pustest alone, with, as you may see, a negative result, dry pus being devoid of chemical activity. To the other, a drop of water is added, and then a drop or two of the pustest, with the result which always follows the application or this itset to make the puster of the pust

most pus—namely, a bright-blue reaction.

"I mentioned just now that pus scereded by persons suffering from diseases allied to erysipelas is more active in its chemical properties than healthy pus. On this piece of glass is some taken from a large carbuncle on the neck of an elderly pase taken troin a large chromers on the new or an energy gentleman two years and three mouths age to the tender of the gentleman two years and three mouths age time. This pus, as you will see, although it has been freely exposed to the air during the whole time, and sometimes to great heat, still retains its power of acting chemically on the pus-test, and it, does so oven twen dry, thus showing that it possesses greater

owns so even when dry, thus showing that it possesses greater chemical activity than ordinary pus.

"You will perceive that, is the explanation I have attempted regarding the influence of moist and dry air over the propagation of crysipelas and its allied diseases, I have assumed that when the chemical activity of pus is suspended, its power to

act as a poison on the system is also suspended.
"I will trespass on your time by bringing one other experiment under your notice, as it may belp to explain the modus operandi of Professor Lister's antiseptic treatment of wounds.

operans of Professor Latter's antisepne treatment of wounds.
"I have found that carbolic acid possesses the property of
entirely and permanently destroying the chemical activity of
pus, whether derived from health or unhealth persons. On
this paper is some pus which had been moistened with water, to give it chemical activity. A few drops of watery solution of carbolic acid were then poured over it, and after a lapse of a quarter of an hour, the pus-test was applied, with, as you may see, a perfectly negative result."

Dr. Day's pus-test is so simple in the mode of appliance, and Dr. Jay's pun-rest as so sample in the mode of appurance, and apparently so certain in its revelations, that we have little doubt that it will soon come into daily use as an aid to diagnosis. He prepares his test-duild by coposing a saturated alcoholic solution of guaiscum to the air until it has absorbed a sufficient quantity of oxygen to give it the property of turning green when placed in contact with iodide of potassium.

On moistening the most minute quantity of pus with water, and pouring a drop or two of the test-fluid over it, a clear blue colour is produced.

HABITUAL DRUNKENNESS A GROUND FOR DIVORCE.—THE AMERICAN LAW.

A commercement of the Loss Times suggests that a divorce should be granted on the ground of habitual drunkenness. And to bring the benefits of the Divorce Act home to the And to bring the benefits of the Liveres Act nome to the working classes he further suggests that "one or more judges of assize should be appointed, or else that the law should be administered by a cheap local tribunal—the County Court, for

instance.

Without pronouncing any opinion upon the question of Without pronouncing any opinion upon the question of making health of the divorce leads habitual drunkenness an additional ground for divorce leads to the control of t one to look into the American law on the subject, as there is

one to look into the American law on the subject, as there is prescally so much sound, simple good esses in American legislation that we need saidom fail to profit by the investigation. It is stated in "Blabop on Marriago and Divorce," fourth edition, vol. i, chapter 30, p. 611-12, that "Habiorove," Very will, in several of the States when the statutes of the States which allow this statutes of the state of the States which allow this number of versa; that, like desertion, it continue a specified number of versa;

number of years."

It seems that in Louisiana the husband's habitual intemperance entitles the wife to a divorce from bed and board, but not from the bond of matrimony until two years after the separation from bed and board.—Leake v. Linton, 6 La. Au., separation from oea and coard.—Leage F. Linton, O.La. All., 262. See as to the State of Maine, Curtis e. Hobart, 41 Maine, 239, 232; as to Illinois, Harman e. Harman, 16 Ill., 85; as to Arkansas, Rose r. Rose, 4 Eng., 507.

Arkansas, Rose r. Rose, 4 Eng., 501.

In Kentucky a divorce may be grunted for a "confirmed habit of drunksness on the part of the husband, of not less than one year's duration, accompanied with a veating of his cetatr, and without any suitable provision for the maintenance of his wife and childrem." And it has been held that, to bring a case within this statute, there is no necessity for the hasband a case within this statute, there is no necessity for the husband

a case within this statute, there is no accousity for the hashand to possess actual, real, or personal property, provided he possesses the physical and mental ability to support himself and family by his labour.

In McKay r. McKay, 18 B. Monr. 6, Mr. Jouice Silies sid.—Wasting of his estate, where he has no property, should be deemed to apply the hor the purpose of supporting time, and labour all the property of the purpose of supporting the contract of the contract contract of the contract contract of the contract contract of the contract contra

observed of the contrary construction, that it would operate sorely in cases similar to the present, where the application for divorce has been deferred by the wife with the fond but vain hope of reformation, until, after the entire estate has been squandered, she is constrained, for the protection of herd children, to ask the protection of the laws.

With respect to what amounts to habitual drunkenness, it has been held in California as follows:—" If," said Mr. Justice Norton, "there is a fixed habit of drinking to excess to such a degree as to disqualify a person from attending to its business during the principal portion of the time usually devoted to business, it is habitual intemperance—although the person may at intervals be in a condition to attend to his business. affairs."-Barber v. Barber, 14 Law Reporter, 375.

THE Official Journal of Sunday last says that the mortality of Paris has greatly decreased, and that no alarming epidemic is now prevalent.

epidemic is now prevalent.

(LATALIEV):—A case of catalopsy is at present engressing the attention of the Doctors of Berwick. The person attacked is a girl, named McGade, who was at serrice with Mr. Cairns, bootmaker, in that town, and is about 17 years of age. She was saddenly seized with a flat on Saturbuy she has constituted into a profound sleep, of the same of the state wards fell into a profound sleep, definess and conscious-timed, with only brief interest to area of IP Janisson and ness, ever since. She is under the care of Dr. Jamieson and Dr. Maclagan, but their efforts are fruitless to effect a cure. Dr. Macingam, but their efforts are fruittees to effect a cure. During the temporary absence of an attendant, on Monday, the girl swoke and ste some biscuits. While the brief periods of consciousness hast, the girl appears in her usual health, but saddenly the satuper comes on, and she continues in profound sleep for many houre, unconscious of all that is going on around her. The case is exciting a good deal of interest in the town.

LEGISLATIVE MEASURES

FOR PREVENTING THE ADULTERATION OF FOOD, DRINK, AND DRUGS.(a)

By H. LETHEBY, M.B., M.A., etc., Professor of Chemistry in the College of the London Hospital, and Medical Officer of Health, and Food Analyst for the City of London.

LEGISLATIVE enactments forbidding the sale of unsound and unwholesome food have been in operation from the earliest time. At first they were chiefly directed against the use of diseased and unsound meat. Among the Jews, for example, there has been a prohibition of this kind from the days of Moses, whose commandments concerning the slanghtering of animals for food, and the examination of their bodies for disease, are supposed to have been of Divine origin, and have, therefore, been regarded with pions consideration; in fact, according to the Hebrew law, no flesh is fit for food, or shall be eaten, except it be of animals that have been killed and be caten, except it be of animals that have been killed and searched, or examined by the officer (bodek) appointed for that purpose; and the most precise rules are laid down for his guidance in these matters—he being bound by very solemn obligations to declare of every animal that he kills, whether the flesh is proper to be eaten (caser), or is unfit for food, by reason of its being diseased or torn (trefs). The rules are traditional, for they are not found in the written law, and are said to have been communicated orally by Moses to the people of Israel directly after his descent from Mount Sinai: for his words directly after his descent from Mount Sinai; for his words are, "Thou shalk kill of thy herd and of thy flock, which the Lord hath given thee, as I have commanded thee." (Deat, xii. 21.) They are, however, so sorere, as to cause the rejection of a wery large proportion of the alunghteen animals; and hence it is customary for the shock to make a bargain with the unorthodox butcher to take only those states that the shock has been also believed to take only those states that the shock has been also been also believed to take only those animals which he considers lawful, leaving the rest for the food animals which ne considers in with leaving the too for the less particular Christian. I dare say this has been the practice at all times, for there is frequent reference to it in our legal and domestic records; in Liber Albus, for example, there is a memorandum to the effect that, on Jnne 24, 1274, certain discreet men of the city were summoned before the King's council to answer the question as to what was done with the unclean fiesh of the Jews, and whether it was lawful for Christians to buy and eat the same? The answer was, "That if any citizen bought such flesh of a Jew, he would be expelled, and, if convicted by the sheriff, he would forfeit the meat, which would be given to lepers or dogs, and he, in addition, would be heavily fined." To which the council replied. tion, would be heavily fined. To which the council replace, that they commanded them, in the King's name, to have the custom strictly observed. I fear, however, from the legal records of Libra Albus, that less attention was paid in those days to the sale of diseased meat than to that of putrid meat; for, on examining the accounts of the citizens made and ren-dered in divers courts of the King, I find that, while "judgment of the pillory or the thew" is recorded in twenty-three cases of the pillory or the thew is recorded in twenty-three cases for selling patrid meat, poultry, or fish, there is not a single instance of a like punishment for selling the unclean meat of the Jews. There is one account of a butcher who was paraded on horseback through the streets of the city, with his face to the horse's tail, for selling measly bacon at market, and the next day he was put in the pillory, with two great pieces of his mesaly bacon over his head, and a writing which set forth his crimes

In ancient Rome there were overseers appointed to examine the meat in the public markets before it was sold, and butchers were often fined for neglecting the law in this respect. Mr. Charles Reed has given us an instance of this from the Adva diuras, or Roman Gazette, of 365 years after the building of Rome, which, when translated runs they are the building of Rome, which, when translated runs they are the building of the constant of April. The fasces, with Lientina, the consult, and Lertina of April. The fasces, with Lientina, the consult, and Lertina properties of the product of the golden Telluss.

In modern times, also, sowere regulations have been made in all the states of Europe for the government of this matter, and in many cases particular instructions are given as to the kind of disease, etc., which renders meat unfit for human food —it being the practice to examine the animal while alive, and its carcass when dead.

But ordinances prohibiting the sale of other kinds of un-

sound lood, and especially concerning the sophistication of food and drink, are not nearly so common or so precise in their character. The essets posite is, perhaps, an exception; for as set forth in Liver. Allow, it is not only an ancient institution, but it also governs in the strictest manner the business of the both of the control of the control

punishment of the pillory.

These were the legislative practices of our forefathers, and although effective in checking the frauds of dishonest dealers, they have given way before the irresistible advance of free trade, which puts no such restrictions upon the action of com-merce, unless it affects the revenue of the country. In point of fact, until recently the only legislative hindrance to any kind of sophistication has been from the Excise, and that has rarely been exercised for the public weal. As might be expected, there-fore, the practice of adulteration is not only extremely common, but it has grown to such perfection as to have become an art but it has grown to suon perfection as to nave occume an ar-of no mean scientific pretention. Fifty years ago it attracted the notice of one of the most expert chemists of the day—I mean Mr. Frederick Accum—who declared of it, even at that mean Mr. Frederick Accum—who declared of it, even at that time, that it was managed with all the order and method of a regular trade, and that it might claim to be distinguished as an "art and mystery." His well-known "Treatise on Adultera-tions of Food, and Calinary Poisons," which was published in 1820, with the startling motto from the Book of Kings—"There is death in the pot"—commanded so much attention, that within a month of its appearance, 1000 copies of it were sold, and a second edition required. The success of Accum has been a sufficient inducement to try the like experiment has been a sufficient inducement to try the like experiment upon the public, and not a few sensational works of the same style have issued from the press. In illustra-tion of this I may refer to the reports of the so-called "Analytical Sanitary Commission of the Lenet", which appeared in that journal during the years 185 to 1854, in-closive; and which were republished in 1855 by Dr. Linssail, when the commission of the commission of the commission of "the commission of the The effect of these articles was to create a sort of alarm, amounting almost to panic, which was followed by the usual prostration of over-excitement; but, during the fever of the public mind, a select Parliamentary committee, under the chairmanship of the late Mr. Scholefield, was appointed to inquire into the subject of the Adulteration of Food, Drinks, and Drugs, and their first report appeared within a month of their appointment. This was followed by the Adulteration of Food Act of 1860, which I need not describe, for it is a dead from the frenzy of fever into the apathy of despair. Attemptahave been made to revive the feeling and to improve the law, which been made to revire the feeling and to improve the law, which is manifestly imperfect, but with no practical effect. In 1869, for example, there was the Bill of Mr. Dixon, Mr. Kinnaird, and Mr. Oldney, to amend "the Adulteration of Articles of Food and Drink Act, 1890," and to extend its provisions to drugs, but it made no progress in the House of Commons; and now there is before Parliament the like Bill of Mr. Muntz, Mr. Whitwell, and Mr. Dixon, to amend the law for the Pre-Mr. Whitwell, and Mr. Dixon, to amend the law for the Prevention of the Adulteration of Food and Drink, and of Drugs, but I do not anticipate that it will become law in its present form, for, like its predecessors, it entirely fails to comprehend the right principles of the subject, or to meet the real diffi-culties of the question. Experience, in fact, has shown that a measure of this kind, to be effective, must not only contain a clear definition of the subject, stating what is meant by adulteration, but it must also be practical as well as decisive in the working of its machinery, and it must be compulsory instead of permissive.

⁽a) Read before the National Association for the Promotion of Social Science, Monday, March 6, 1871.

As regards the definition of the subject, it is manifestly of prime importance that there should be a clear understanding of what is meant by adulteration; for although there are many practices which are regarded in some quarters as adulterations practices which are regarded in some quarters as adulterations, yet, as they are either called for by the public or are concerned in an actual improvement of the article, they cannot, in my opinion, be regarded as adulterations. As examples of this, I would refer to the harmless mixture of flour with mustard, of chicory with coffee, of inferior starches with arrowroot, of isin-giass with gelatine, of glucose with sugar-cane, of dripping or other fat with butter, of water with milk, rinsgar, or spirituous liquors, for in all these cases the mixture is harmless, and is generally expressed by the price at which the article is sold— kind of competition in trade which the pathics concurse, and from which in the end the public obtain advantage. What good reason, in fact, is there, why we should prevent the dealer from increasing the bulk of an article, or improving its appearance, or adding to its flavor, providing he does it without injury to the nutritive quality, the dictical uses, or the grant against frond in rank cases, is that the decler should sell. chicory with coffee, of inferior starches with arrowroot, of isinwholesome nature of the substance? All that is required to guard against fraud in such cases, is that the dealer should sell the article for what it really is, and should specify by means of a distinct label what the mixture is composed of, and the pro-perties of the several constituents. If he failed to do this, and sold a mixture of things for a genuine article, he should be liable to a penalty for fraudulent dealing; and with these safeguards, I would let the manufacturer employ whatever materials he likes to cheapen or improve his wares, provided always that the materials are harmles

It must be otherwise, however, with the use of mineral, poisonous, or unwholesome compounds. The addition of alum to bread, of mineral pigments to confectionery, or, indeed, of any mineral substance to food, as well as the use of unsound or decayed articles of diet, should be regarded as adulterations of a serious nature, and should be strictly prohibited.

In defining the term, therefore, I would limit its application

to the use of nuwholeome substances, permitting wholeome mixtures to be sold provided they are clearly designated at the time of the sale by means of a proper label, the absence of which should be evidence of fraud.

With respect to the machinery which is necessary for the Act, my experience in the City has led me to the conclusion that it should be as follows:—

 There should be an officer appointed by the local authority to purchase samples of food in his district. In most towns there are inspectors of nuisances, or inspectors of meat and there are inspectors of numerical, or inspectors of neets and markets, and these officers may easily perform the duty of inspecting the shope of the district, and of purchasing articles of food or drink when they suspect them to be adulterated, or to be sold in fraud of her Majesty's subjects.

Under the present and the proposed law, the duty of begin-

ning an inquiry of this nature rests with the public, and experience has shown that, although the public are the parties interested in the matter, yet they will not incur the trouble and responsibility of commencing legal proceedings against a dealer. To take the case of the City as an illustration, although dealer. To take the case of the City as an illustration, although at the time of the passing of the Adulteration of Food Act the public were invited by the Sanitary Board to take measures for the due observance of the law, and the poor were invited to bring articles of food, suspected to be adulterated, to the public analyst, and he was empowered to make the analysis without charge, yet no case of prosecution has occurred— but many analyses have been made at the instigation of the dealers themselves, for the purpose of obtaining a trade certificate.

2. There should be a public analyst appointed by the local anthority, in exactly the same manner as the gas examiners are appointed under the recent Metropolitan Gas Act, and he should ke the analysis of articles brought to him by the inspector, or by any other purchaser who had taken the necessary precautions to preserve the identity of the article, and this should be secured by proper regulations. In all cases of adulteration, or of mixtures in fraud of the public, his certificate should be forwarded to the local anthority, who should immediately send a copy of it to the dealer, and it it should be regarded as prima facie evidence of adulteration or of fraud; but the dealer should, in case he thinks himself aggrieved by the certificate, have the power of appealing to a central authority, as the Board of Trade, or the Excise, who should refer the matter to a chief analyst, whose decision should be final and conclusive, and the expense of this should be defrayed by the parties in default. This provision is of the utmost importance to guard against the possible errors of local analysts, as well as the preindices

which they may entertain on the subject of adulteration. The process to which I refer is not at all difficult, for it is already in operation in the case of many of the gas companies of London.

3. In case of a certificate of 'adulteration from the local'

analyst, or from the chief analyst on appeal, the local authority should be required to prosecute the matter before a justice in the way provided for in the Act.

And with respect to penalties on conviction, the justice should be empowered to fine the defaulter, or to imprison him, or make him advertise his default, in a manner to be described by the justice, either in the public newspaper of the place, or upon his own shop window; and the penalties should be accumulative, so as to increase with each conviction of the

accumulative, so as to increase with each conviction of the same offender. And the execution of the Act should be con-fided to the local authorities in a compulsory manner. As regards the question of the adult entirely, and should be committed to some, Medical body whose knowledge of this difficult subject is sufficiently large to enable them to deal with it; for the question of the adulteration of a drug is not merely too difficult for an ordinary analyst to settle, but it is allogether a specialty which belongs to a competent without a raticle was adulterated or not, seeing that its strength and article was adulterated or not, seeing that its strength and peculiar action on the human body are often dependent on the peculiar action on the human body are often dependent on the age of the preparation, and on the climate where it is grown; this is so with almost very vegetable preparation, the thin is so with almost very vegetable preparation. It does not appear to me, therefore, that drugs have applies whatever in a Bill for Preventing the Adulteration of Food or Drink, but should be made the subject of independent legislation.

REVIEWS.

The Descent of Man, and Selection in relation to Sex. By CHARLES DARWIN, M.A., F.R.S. In 2 vols. London: J. Murray. Pp. 423 and 475.

[SHOOND NOTICE.]

In the fourth chapter, Darwin enters upon the consideration of the development of man from some lower form, and in it deals exclusively with transformation of bodily structure. First he insists on the variability of man as now seen, and the frequent insists on the variability of main as a concerning of what anatomists call abnormalities, as tending occurrence of what anatomists call abnormalities, as tending to show relationship with the lower animals. bodily variations are numerous, still more so are those of the mind, and, as the author has already pointed out, all these tend mind, and, as the author has already pointed out, all these tend to descond to offspring. Then, again, supposing man to constitute a single species, the extent, speaking geographically, of this species is unprecedented, and, in accordance with the general rule, as applied to the lower animals, we may general rule, as applied to the lower animals, we may expect to encounter a corresponding multiplicity of variations. The laws of variation have been already discussed by the author in his work on "Domestic Animals," but some of them are again considered in this connexion. Among these are the influence of changed conditions of life, the increased use and disuse of parts (we would note the long sight of savages, the tendency to short sight in civilised races), arrests of development, reversion to original type, the rate of increase, and even natural selection. Under the last heading, Darwin entersinto a consideration of the mode in which he believes man to have been developed from an arboreal monkey. He, however, admits that in former editions of the "Origin of Species he attributed too much to the influence of natural selection ection. which would have but little inflnence on organs which were neither directly beneficial nor directly injurious to the possessor.

It has been objected to Darwin's theory that man is at best the most helpless of all animals, and that this could never have been the result of selection; but this is a fallacy. His very help-lessness at birth may have been an important means of securing pity, and of increasing the tendency to sociability in man, which, according to his theory, has been so great an agent in

moulding man's moral nature.

In Chapter V. the development of the intellectual and moral faculties during primeval and civilised times is discussed. Mr: Wallace has pointed out that when man had acquired a certain mental development he would be likely to maintain his bodily structure more nuchanged than would the lower animals, no longer being subject to the influences which the seasons and other conditions would impose. The intellectual faculties, top, would be improved, less cultivated nations dying out before those more skilled in the arts of war and peace. The chief instrument

in developing the social virtues in man would most probably be the love of praise, as soon as such a feeling could be instilled in the savage breast; but this subject has already been discussed. The principle of natural selection, as applied to civilised races, is not easily canvassed in all its bearings. At first sight it would seem that everything was done in opposition to it; but, on the seem ana everything was done in opposition to it; but, on the other hand, by improved food, protection, and such-like, it tends to foster the general bodily welfare. Intellect is undoubtedly a powerful engine in civilised society, and, could it be rendered a powerful engine in evinese society, and, couldn't of rendered hereditary, we should have a good instance of artificial selec-tion to fall back on. But in man the sexual instinct is too powerful; it is not intellectual but bodily gifts which are mostly sought after. Was man born perfect, and have the savage races since became degraded, or was he born primarily most imperfect and has since progressed? this is an interesting question. There is evidence in many forms of languages and customs that the civilised nations of to-day were formerly barbarous. No argument is needed to prove this; but to prove retrogression

is impossible. is impossione.

Chapter VI. treats of the Affinities and Genealogy of Man.

Mr. Darwin holds that he has proved that man has, let us say,
affinities to the lower animals in many respects. We cannot
maintain that his anatomical structure is sufficient to separate him from them; and mental and moral qualities cannot be com-pared or classed. But even allowing that these are expressed by the complicated structure of his brain, all modern naturalists by the complicated structure of ms oran, an induction instances admit that classification, to be approximately correct, must depend on the sum of the animal's characters, not the perfection of any one taken singly. Man's frame has been adapted to his mode of life, and differs less from the lowest of the quadrumana than does the seal from any other carnivora. A good many points of resemblance are here noted wherein man approximates the spes and the apes man. Of monkeys there are two great divisions-the catarhine, or old-world, and the platyrhine, or new-world, group. Of these, the former have four, the latter six premolars; and in this respect the former tour, us auter an premount; and in this respect the order the more nearly approximate to man. If man, therefore, is descended from the monkey tribe, it is plain his progenitor belonged to the old world; and as the chimpanzes and gorilla are the forms which most resemble the bunan stock—further, these being natives of oeatral Africa—Darwin concludes that

our earliest progenitors lived there also.

The genealogy of man is a knotty point, especially if, as is here done, an attempt be also made to trace the descent of other members of the vertebrate series. Nevertheless, something has been attained through the researches of Ernst Hackel. man, Darwin says —"The early progenitors of man were no doubt once covered with hair, both sexes having beards; their counts one covered with mar, out seems may gowers, taken ears were portided and espable of movement, and their bodies were provided with stail having the proper muscles. Their limbs and bodies were also acted on by many muscles which now only-cossisionally respect, but are normally present in the quadra-mans. The greet artery and nerve of the forearm ran through a supra-condyloid foramen. At this or some earlier period, the intestine gave forth a much larger diverticulum or cucum than that now existing. The foot, judging from the condition of tions now existing. The foot, pudging from the condition of the great toe in the fouts, was then prehensile, and our progenitors, no doubt, were arboreal in their habits, frequenting some warm, forest-clad land. The males were provided with great earlies teeth, which served them as formidable weapons.

great enzine teeth, which served them as formidable vexpons." The final chapter of this portion of the work refers to the mess of man. The first question is, Are these races or species? without blending with others within a given area, this implying a sterility of its offspring when the breed is mixed with others. Nowhere does this rule prevail with regard to the human race. But that a very considerable diversity exists between different varieties of the human race is almost a truism, and it is curious that their distribution corresponds in great measure with the distribution of certain great groups of animals. But, if mankind consists of several species, how many? is the next question; and to it the replies are both numerous and diversified—in fact, any number from two to sixty, or more; in short, the solution is hopeless.

A carious subject for reflection is the gradual extinction of races of man. Their languages are left with none to speak them. And this distinction seems to depend on competition of race with race, rather than on the surrounding conditions; above all, civilisation is fatal to them. Another curious point is the origin of the dark races of mankind. Darwin would seem to think that such a colour implies immunity from certain malarious influences. But it would seem to us that he ought rather, if our ancestors were apes, to seek some mode of accounting for the white rather than the dark races. But, as

differences of colour are not likely to be of great use to the individual possessor, they are not likely to be propagated by natural selection, and, consequently, Darwin has to call in another agency to supplement the former. This engine is sexual selection, which we shall consider hereafter.

NEW BOOKS, WITH SHORT CRITIQUES.

On some Advantages of Animal Vaccination for the Prevention of Small-pex. By A. VINTRAS, M.D., Physician to the French Hospital. London: J. & A. Churchill. 1871. Pp. 21.

• This pumphlet may be regarded as an amouncement of the fact that animal vaccination has been resumed in London, and that the writer is prepared to vaccinate from the oalf. There is nothing novel in the pamphlet itself, which consists of an abstract of this consists of an observed of the consists. abstract of the experiences on the Continent.

Precautions to be taken by Local Authorities towards Preventing the Spread of Small-pax. By James B. Hutchins, of the Medical Department of the Privy Council, etc. London: Knight and Co., 90, Fleet-street, E.C.

• • This little tract contains, as clearly as possible, and in the shortest compass, the information promised by its title-page. No "Board" nor "Local Authority" can go wrong which follows this guide. We observe, at page 16, the following passage in a Priry Council Memorrandum, which, we suspect, passage in a l'rry Council Memorandum, unica, un esupero, has been the cause of much confusion to public vaccinators during the present epidemic. We refer to the prohibition, or implied prohibition, to revaccinate children under 12. "The vaccination officer abould make it well known in infected localities that the public vaccinator is at liberty to

nnected localities that the public vaccinator is at liberty to revaccinate grown-up and young persons (not under 12 gerser of sep) who have not before been successfully revaccinated, and who apply to him for that purpose; and that persons not vaccinated since childhood, who are likely to be exposed to contagion, ought to be revaccinated without delay. Above all, this is necessary for persons whose original marks of vaccination are imperfect.

The Change of Life in Health and Discase. A Practical Treatise he Change of Life in Heath and Disease. A profetcal Pretties on the Nervous and other Affections Incidental to Women at the Decline of Life. By EDWARD JOEN TLE, M.D., Senior Physician to the Farringdon General Dispensary and Lying-in Charity, etc. Third Edition. London: J. & A. Churchill. Pp. 296.

. Or. Tilt's book has reached a third edition. It is quite plain, therefore, it has secured a certain amount of popularity. To say that women are more liable to fatal complaints at the menopause, as Dr. Tilt calls it, when he has put an acute accent over the first e, is to give birth to a truism; to originate a certain means of treatment whereby this difficult period may be with safety sur-mounted, is something else. But Dr. Tilt has done more—he mounted, is something else. But Dr. Thit has done more—ne has given us a pathology of the ganglionic system of nerves. Had he given us an accurate account of its physiology first of all, physiologists, as far aw ecan learn, would have been much pleased; but then, pethaps, a pathology evolved from one's inner conaciounces may be less easily attacked than a physiology about which, at least, men know something.

General Outline of the Organization of the Animal Kingdom, and Manual of Comparative Anatomy. By T. RYMER JONES, F.R.S., Professor of Comparative Anatomy in King's College, London, etc. Fourth Edition. London: Van Voorst. Pp. 886.

. We think it is hardly necessary for us to do more than to mention the appearance of a new edition of this well-tried and popular text-book. The manual is one which, having the fortune to appear just when such studies were not greatly sought after, is able, now that they have become so common as to constitute one of the humbugs of the day, to maintain its old place with true students. Like most of Van Voorst's books, the volume is beautifully illustrated, and a considerable number of new engravings have been added to this edition; otherwise, there seems to be nothing specially new about it.

The City of London Directory for 1871. London: Collingridge, City Press Office, Aldersgate-street.

. . This useful volume contains, among other things, a full list of London newspapers and journals, with their characters, prices, and places of publication; a conveyance and carriers guide; a streets and trades guide; a livery companies guide; guide; a streets and trades guide; a fivery companies guide; a public companies directory; and a corporation directory; comprising a vast amount of information, some of a very curious character, including the position of pillar letter-boxes, the names of the residents in each house, etc. The Deformities of the Human Body: A System of Orthopædic Surgery. Being a Conrse of Lectures Delivered at St. George's Hospital, by Bernard E. Brodhurst, F.R.C.S., Surgeon to the Orthopedic Department, and Lecturer on Orthopedic Surgery, at St. George's Hospital, etc. London: J. and A. Churchill. Pp. 259.

J. and A. Churchill. Pp. 259.
a. The subject of which he breaks to require commendation from us. We need only any that the work, in the shape of separate lectures, appeared in the columns of a contemporary, that they were well received by the Medical public, and that they have been published in fitting garb by the Messen. Churchill. Divided as they are into three parks. dealing with deformities of the limbs, affections of the joints, and deformities of the trunk and neck, their arrangement renders them easy of reference to the hurried Practitioner. They are illustrated by a large number of excellent engravings.

The Causes and Treatment of Lateral Curvature of the Spine.
By Rightan Bangell, F.R.C.S., Surgeon to, and Lecturer on Anatomy at, the Charing-cross Hospital. Second Edition.
London: Macmillan. Pp. 211.

s As in a former edition we pointed out that Mr. Barwell's views were logical, and that they only needed reduction to practice on a sufficiently large scale to make them generally accepted; since, moreover, in this edition he appeals to a largely increased experience, still advocating these views, we suppose they are to be accepted with confidence. At all events, we can say that the book is worth reading, which is more than can be said for many.

The Forces of the Universe. By GEORGE BERWICK, M.D. London: Longmans and Co. Pp. 127.

. Dr. Berwick's little work aims at making more clear what every day becomes clearer—the universality and convertability of force. He goes, however, a step beyond most natural philosophers, though certainly not of all biologists, in assigning to life a position similar in all respects to that of electricity.

The Student's Guide to Medical Diagnosis. By SAMUEL FERNMER, M.D., F.R.C.P., Assistant-Physician to the London Hospital, etc. London: J. and A. Churchill. Pp. 236.

. We do not know that we can do better than repeat the commendation we gave this little book in its former edition, and to say that the present is an improvement on the former.

GENERAL CORRESPONDENCE.

VACCINATION AND REVACCINATION IN GLASGOW. LETTER FROM DR. JAMES DUNLOP.

[To the Editor of the Medical Times and Gazette.] SIR,-I am instructed by the Medical officer, Dr. Gairdner, to forward to you some account of the arrangements made for free vaccination and revaccination in the city of Glasgow. Arrangements have also been made for a daily house-to-house visitation in the infected localities, and the offering of revaccination to all within a wide area of the infection.

cination to all within a wide area of the infection.

Our experience here corroborates that of London in regard
to the success which is attending revaccinations. It is
observed, too, that vaccinations in infants are more successful
than usual, the vesicles being more numerous, plumper, more pearly, and accompanied by a greater amount of local and constitutional disturbance. Small-pox does not seem to be constitutional cast context.

same-pox tools have seen to be gaining rapidly upon us, nor is it found spreading from house to house in crowded tenements. Adults principally are affected, and not children born since the Vaccination Act seems to be, unlike operation. The Vaccination (Scotland) Act seems to be, unlike operation. The Vaccination (Scotland) Act seems to be, unlike the English Act, almost a complete success. It is so from the fact that all births are registered, and the registrars have a fact that all bitths are registered, and the registrars have a pocuniary interest in every successful case of vaccination which is registered. Besides, the people of Scotland, with the exception of the lowest strata of population found in the larger towns, have always given great attention to the vaccination of infants, and they have not required any Act of Parliament to compel them to seek protection against small-pox.

The small-box wave, in its passage over our city, appears to have first influenced unvaccinated adults from the remoter portions of the West Highlands, and from them it has extended in some instances to individuals only partially protected by vaccination. To-day there are 130 cases in hospital, and fifteen are

known to us to be under private Medical treatment at home. We do not experience much difficulty in removing infected persons to Hospital. The compulsory removal powers, how-ever, conferred on the local authority by the Public Health Act, have been carried out in several instances by our Sanitary Inspector, but some of the cases treated at home are so mild, and the persons infected are in such circumstances, that removal to Hospital is not recommended.

Small-pox has appeared in some milk-shops in town, and under the same Act steps have been taken for shutting up the

annua are same act steps have been taken for shutting up the shop, or otherwise to protect the public. Revaccination is being carried out on a large scale in the city by private Modical Practitioners, and, owing to fresh lymph not being quite so abundant as to enable very large numbers to be at once overtaken, some Medical men are increasing their to be at once overtakem, some Medical men are increasing their lymph supply by diluting it with glycerine, and they are find-ing the results quite satisfactory. Many years ago I tried the dilution of lymph with glycerine, and failed in many instances. At present—due, apparently, to the special susceptibility of the population, young and old—a small quantity of lymph seems to be as potent as a much larger quantity employed at ordinary periods. Lymph, however, to be diluted with glyco-rine should itself be good—taken from a healthy child, from well-formed and not exhausted vesicles.

The special value of revaccination to arrest the spread of and special value of revacemation to arrost the spread of small-pox is being well tested, not only in the homes of the poor, but in institutions as well. On the 23rd ult., in conse-quence of small-pox having appeared in a female industrial school, I was instructed by the Health Committee to visit, and school, I was instructed by the Health Committee to visit, and adopt such measures as seemed necessary. The school con-tained 150 girls, and seven of them were found to have the cruption of small-pox out on their faces. These were at once removed to Hospital, and on the following day seven more girls. At my visit, I revaccinated 110 girls and five ladies, and since then there has not been a single new case

The relapsing fever, which attained its height with us in this city on December 13, when there were 1199 cases known to be under treatment, is rapidly declining, and to-day there are only 688 cases reported, and of these nearly one-half are under only ose cases reported, and of these nearly one-half are under treatment at the new Fever Hospital erected by the magistrates at Belvidere, London-road. The Fever Hospital at Parlia-mentary-road, which had accommodation for 350 cases of relapsing fever, is now set apart principally for small-pox and a few cases of typhus fever. As the relapsing fever declines, we shall have ample accommodation for small-pox, should the epidemic become more wide-spread than it is at present.

I am, &c.,

James Duntor, M.

JAMES DUNLOP, M.D., Assistant Medical Officer. March 7.

THE NEROS IN PHYSIOLOGY. LETTER FROM DR. F. A. HARTSEN.

[To the Editor of the Medical Times and Gazette.] Srs,—At page 275 (No. 1079) of the Medical Times and Gazette, mention is made of Professor Manteguzza's researches on pain. I am most happy to see that this subject has elicited from the editor the following remark:—

the editor the following remark:—
"These, as may be supposed, involved much suffering, and
we wish that we could state that the importance supposed to be accretained by them are of sufficient importance
to justify its indiction.

It would have been well if Professor
Cavarret(a) had made the same remark when he mentioned
the researches of a certain German physiologist, whom I will
not do the honour to name. This individual, we read, has had
the "wanton barbarity" to cause the death of a number of
animal through pain, wishing, by this means, to ascertain the
influence of pain upon the chemical processes in the brain;
of a tortured saintail contained a little more corebeine, or levyof a tortured animal contained a little more corebrine, or lecythine, or some other mysterious substance of the kind, than that of a non-tortured animal :

That the scientific results of such barbarity should not be more important may have been easily anticipated; for of what real service can it be to mankind to know the exact physic-

logical effect of pain?

Surely, the field of exploration is wide enough, and the physiological problems still to be resolved are rather too physicological proteins suit to be resolved are rather on numerous than not numerous enough, and the ways of making oneself known by scientific discovery affords Femberras du choix. It is therefore a sad phenomenon that some minds are

drawn by preference towards such investigations of which the instrument is torture. Should not the augurs of science make ap their minds to banish from their republic the nnnatural beings who convert their laboratories into torture-rooms, and in such a manner pursue the advance of science, or -the gratifi-I am, &c., cation of their own vanity?

QUININE AND MALARIA.

LETTER FROM DR. R. H. BAREWELL

[To the Editor of the Medical Times and Gazette.] Sin,—I was glad to see in your number of March 4 an article by Baboo Gopaul Chunder Roy, on the subject of malarious fever, in which views are expressed nearly coincident with my fever, in which views are expressed nearly coincident with my own as to the action of malaria primarily on the ganglionic or sympathetic system of nerves. In a paper of mine which was road before the Royal Medical and Chiurqueal Society on February 14, these views were explained more fully than in the article of Babbo Gapaul Chunder Roy. A very short abstract of the paper appeared in your journal of the 25th ult. On two points I regret to say that I differ from my dis-tinguished conferer. I look upon quinine as a direct chemical anathote to the poison, which I think is an irritant, and not a

narcotic poison. It is true that an excessive dose of the snalarious poison will paralyse the whole sympathetic system.

and produce, secondarily, the same effect on the cerebro-spinal and product, secondarity, the same effect of the cervore-spinal theat, again, and the major trained polosons in evy large doses. Heat, again, and the major trained polosons are small extent; but as a sedative, when applied as in extensive burnes, or so severely as to destroy a considerable portion of the skin. The cases of malarious poison where the first symptom is collapse, followed by come and death, seem to me analogous. is collapse, followed by come and death, seem to me analogous. I have seen a man die from malarious poisoning in thirty hours, without ever rallying from the collapse stage, and with a spleen found, eight hours after death, of the consistence of cream.

I am, &c., R. H. BERKWELL, M.D.,

Medical Officer of Health for the Colony of Trinidad. Waverley-villas, Hendon, N.W., March 5.

> SMALL-POX AT STAINES. LETTER FROM MR. JOHN PRINCE.

[To the Editor of the Medical Times and Gazette.] To the natter of the Medical Times and Gazette.;

Six.—Perceiving that you have had no intimation of the epidemic of small-pox at Staines, I beg to give you a few lines. Within the last two months we have had nearly fifty cases and eight deaths. Of the casualties, four had not been vaccinated, two imperfectly, and two doubtful. Committees were formed, with the view of aiding the poor and taking steps to

etamp out the disease.

We recommended isolation and other measures with apparently good results, as no fresh cases have come to notice for

more than a week. more than a week.

During the outbreak of variols, one case of malignant typhus occurred, which ran its course with great rapidity, and ended in death. There were also a few cases of searlet forer. I shall at another time give you a more dotailed report of

our doings in this quiet little town I am, &c., Jos Staines, Middlesex, March 9. JOHN PRINCE, M.R.C.S., L.S.A.

ON THE USE OF LYMPH FROM REVACCINATED PATIENTS

[To the Editor of the Medical Times and Gazette.]

Sin,—It is commonly taught that lymph must not be used for vaccination which is derived from the vesicles of revaccinated vascination which is derived riom the vessicles of revaccinated subjects. Now, so far as the propriety of so doing is concerned, I have not a word to say, and believe that in general it is best to use the lymph of a primarily vascinated infant; but if our teachers mean to say that the lymph of revaccinated persons teachers mean to say that the lymph of revaccinated persons will not isek, I can only say from my experience that it will take. Years ago I made the experiment of vaccinating an infant in five places: four with primary, and one with revaci-nation lymph. There was positively no difference in the vesicle produced; and at a pinch I should not hesitate to use the lymph in question. May, it seems to me absurd to suppose that it is surphing but good vaccine lymph; for the contagion of mild, modified small-pox will not fail to produce the worst kind of confluent upon a susceptible person, and an imperfect and hasty revaccination vesicle will reproduce the normal cowpox in a patient who is capable of this pathological chang

F.R.C.S. I am, &c.,

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

The annual meeting of this Society was held on the evening of Wednesday last, March 1; GEORGE BURROWS, M.D., F.R.S.,

President, in the Chair. The abstract of income and expenditure for the year was resented. It showed that the income was 1421/, 18s., and the

ordinary expenditure 951/. 19s. 8d.

ordinary expenditure 9917. 19s. 8d.

The report was adopted, on the motion of Dr. John Weisster, who congratulated the Society on the highly satisfactory state of its finances. The Report of the Council stated that the Society consisted of 665 Fellows, of whom sixseated that the books of the had been elected during the year. There had been fifteen deaths. The library had been increased by the addition of 456 books. The library committee had made their triennial inspection, and had reported the state of the library to be satisfactory. In consequence of the increasing want of room for the books, it was in contemplation to build a new reading-room in the rear it was an contemplation to build a new reading-room in the rear of the Society's house. It was reported that an index to the Transactions of the Society was in progress. The report con-tained also recommendations for changing the time of meet-ings of the Society from November to October, ceasing a month earlier, and for the discontinuance of the publication of the

Proceedings. The report was received.

Dr. Barclay moved, and Mr. R. B. Carter seconded, the adoption of the following recommendation of the Council :-"That, in future, the meetings of the Society be held on the second and fourth Tuesdays in the month (the fourth Tuesday in December excepted), from the second Tuesday in October to the fourth Tuesday in May, instead of from November to June, as at present." This was adopted; and at a subsequent stage of the meeting the necessary alterations were made in the

by-laws. Dr. BARCLAY next moved, and Mr. Carter seconded the adoption of the recommendation of the Council, "That, for the fnture, the publication of the Society's proceedings be confined to the volume of Transactions, and that the separated publicato the volume of Frankettions, and that the separated publica-tion of the Proceedings to discontinued." A long discussion casued, in the course of which the withdrawal of the Proceedings was opposed by Drs. R. Lee, J. Webster, Pary, and other mem-bers, and supported by Mr. Curling, Mr. Spencer Wells, and others. It was urged, on the one hand, that the Proceedings others. It was urged, on the one hand, that the Proceedings at present contained little more than the abstracts of papers and discussions which appeared in the Medical periodicals, and that they had failed in their object of becoming the depositories of short papers; while the opponents of the proposal brought forward the example of the Royal Society, and urged that the intention of the Proceedings was not generally known,

and that they were capable of improvement.

Dr. JOHN WEBSTER moved, and Dr. PAYY seconded, amendment remitting the subject to the Council, with the view

Dr. JOHN WYSERT MOVES, and Dr. PAY secondon, an amendment remitting the subject to the Council, with the view an amendment remitting the subject to the Council, with the view an amended form. This was carried bell and of the council when the carried as an abstantive motion by a majority of four.

The following officers and Council were declared to be elected for the ensuing year: —President: H. A. P. Stewart, M.D.; G. D. Pollock; J. A. Bostock. Treasurer: W. R. Basham, M.D.; Brietet. Serverlaier: E. W. R. Senham, M.D.; Brietet. Serverlaier: E. T. S. Chambers, M.D.; F. C. Thomas Smith. Liberties: T. K. Chambers, M.D.; F. R. S.; W. Marcet, M.D.; F.R.S.; C. Murchison, M.D.; F.R.S.; G. G. Goscoyen; J. W. Hulke, F.R.S.; A. Noverre; S. J. A. Salter, F.R.S.; W. Savory, F.R.S.

The Parastrost then addressed the meeting. He commenced by alluding to the internal commetion which had been going forward in the Society during the last few years with regard forward in the Society during the last few years with regard.

forward in the Society during the last few years with regard to the proposed changes in its name and organisation, and adverted to the fluctuating character of a Society in which the individual elements, as president, officers, and council

are constantly giving way to successors to whom it is useless for the retiring Council to leave any legacy of particular measures, but who must be left to act according to their own judgment for the benefit of the Society. After a casual allusion to the illustrious roll of names of former presidents, and the important services the Society had rendered to dents, and the important services the Society and rendered to the Profession, both by its Transactions and its library, the President commenced the annual obtituary notices of Fellows who had been lost to the Society during the past year, which included the names of Dr. James Copland, Dr. Thomas Fellows who had been lost to the Society during the past year, which included the names of Dr. James Oppland, Dr. Thomas Mayo, Professor Syms, Dr. W. D. Chowas, Dr. Maclachlan, Mr. Charles Hewitz Moore, Dr. Samuel John Joshfreson Mayo, Professor Syms, Dr. W. D. Chowas, Dr. Maclachlan, Mr. Charles Hewitz Moore, Dr. Samuel John Joshfreson Rogers (consulting Dental Surgeon to St. Bartholonew's Hoopital), Mr. John Soden (Bath), Mr. John Badley (Dudley, Worcestershire), Dr. John Christopher Franz, Dr. Beoon Phillips (Brighton), and Dr. Janes Abercrombic (Cape of Good Hope). The President entered into details own personal recollections of them, and referring to their contributions to the Transactions to the Society, and their contributions to the Transactions to the Society, and their contributions to the Transactions to the Society, and their contributions to the Transactions to the Society, and their contributions of the Medicine, Coccupying twenty of the Society of the Society of the Contributions of the Society of the Professor Space of t 1848 and speedy return to his northern home, his long retention 1849 and speedy return to his northern home, his long retention of the Professorship of Clinical Surgery there, and his position of the Professorship of Clinical Surgery there, and his position (Kingdom; his plainness of speech and irritable in special which did not interfere with his generosity and hospitality and the califvation of the warmest friendships. The quiet, thoughtful, and painstaking manner of the late Mr. Moore, and his conscientious discharge of duties entrusted to him; and his conscientious discharge of duties entrusted to min; his career as Lecturer on Anatomy and Surgery and Surgeon to the Middlosex Hospital; the time and energy he devoted to the service of the Society in the different offices he held, from those of Librarian and Secretary, in 1858-62, to his resignation of the Treasurership in 1870, only scorney, to as reagastion of the Treasurership in 1870, only a few months previous to his death, during which period, not content with the devotion of his time to the management of the affairs of the Society, he had contributed numerous valuable papers to our Transactions. In the notice of Mr. John Soden, reference was made to the valunotice of Mr. John Souen, reference was made to the valua-able gift of Medical portraits collected by his father, which on the doath of the latter he had presented to the Society, and which became the nucleus of the extensive collection now possessed by the Society. After concluding the hiographical notices of deceased Fellows, the President alluded more particularly to the failure of the renewed attempt to accomplish an amalgamation of the Medical societies, and to establish a conjoint society on a broad basis, under the title of a " Royal Society of Medicine:" a similar attempt, about eight years ago, during the presidency of the late Dr. B. Babington, having een made, with the same want of success. The combination of the dispeta membra of scientific Medicine into one body, con-templated by its promoters, would undoubtedly have conferred many advantages on all who hereafter entered the Society; but many autuatages on all who hereafter entered the Society; but it was necessary to concilient the apparets interests, the it was necessary to concilient the special interests, the members of the different societies, which seemed insuperable; but when, after oft-repeated meetings of councils and societies, and protracted and acrimonious discussions, the appared almost overcome, the solution was unperseded by a papeared almost overcome, the solution was superseded by a resolution of our own Society to the effect "That the Council resolution of our own Society to the effect "That the Council to requested to consider whether, while maintaining the prepared to consider whether, while maintaining the Chirurgical Society, it may be possible to obtain a more conjude to constrain with the Pathological, Chimical, Obstetrical, and Epidemiological or other societies for the premotion of Medical evicace." No action had been taken by the out-going Council on this resolution, but it had been left for the new Council, should it think fit, to take up its consideration. The President regretted that it had fallen to his lot to preside at so many meetings on this topic, and to have seen so much

energy and painstaking ending in an abortive issue; but how-ever favourably he may have looked upon the scheme, he could not, when he witnessed the strenuous and decided opposition not, when he witnessed the stranuous and decided opposition it met from many of our own Fellows, and the opposition or ladewarm support of the other societies, desire that it has been been decided by the societies of the societies that the believed, been attended with unfavourable effects on the scientific work and material prosperity of the Society, but he carneally hoped it would now be allowed a period of repose from the disturbing influences of projected changes. He added that his experience on the Council had convined him that some new his experience on the Council had convinced min tast some new regulations for sending papers to referes for reports on their morits would be desirable, and might tend to ensure a more steady supply of papers for discussion at the meetings. In closing his address, the President rendered his acknowledg-ments and thanks to those who had contributed papers during his term of office; to the Council and officers of the Society for the support, assistance, and advice he had received from them in carrying on the affairs of the Society; to the sub-librarian in earrying on the anars of the Society; to the sub-ineranal for the admirable manner in which he performed his dutie; and, spologising for anything by which, in the performance of the invidious duties of President at the various extraordinary meetings at which so much discordance of opinion had existed. he had by word or manner hurt the feelings of any Fellow, he concluded his address in these words:—"In the midst of the concluded his address in these words:—"In the midst of the good fortune which has attended me in my Professional career, I shall never forget the honour you paid me by electing me to preside over this distinguished Society. Florest semper. Votes of thanks to Dr. Burrows and to the other reting officers and Members of Council concluded the proceedings.

THE PATHOLOGICAL SOCIETY. TUESDAY, FEBRUARY 21, 1871.

Mr. Hilton, F.R.C.S., President, in the Chair.

Dr. Monell-Mackenzie exhibited a specimen of Constricted Trachea and Syphilitic Deposits in the Liver, which had occurred in a man, aged 39, who was admitted into the Hospital for Diseases of the Throat, November 10, and died on December 28. He had, however, been ill for some weeks previously. The symptoms were those of bronchitis, and there was dulness at the lower part of the right side of the chest, in front. at the lower part of the right side of the enest, in front. The prominent symptom, however, was dyspince of a very severe and paroxysmal character. Several times the patient was for many hours quite unconscious, pulseless, and with searcely perceptible respiration. Between the attacks the patient was well, and even gained flesh. He died suddenly in an attack of dyspnosa. The traches, on post-mortem examination, was found, about an inch above the bifurcation, to be contracted to the size of a goose-quill by a puckered cicatrix; there was no thickening external to the trachen. There were numerous deposits of yellow matter in the liver, and a similar deposit in one kidney. The lungs were much congested and emphy-

Dr. FAGGE thought when he saw the case the trachea and not the larynx was affected, because, though much dyspnosa, there was no interference with voice. He thought the discase might be due to syphilis or to pressure; but there was an un-

mistakable history of the former.

In reply to Mr. Hulke, Dr. Mackenzie thought contraction was due to previous ulceration, not to fibroid deposit. vocal cords were healthy.

Dr. Mobell-Mackenzie also exhibited a specimen of Growths in the Larynx of a Dog. The subject from which it had been taken had suffered from feebleness of voice, dyspnæa, and strider for nine months. The animal became emaciated, and a reterinary surgeon who was called in considered the lungs were extensively diseased, and advised a dose of prussic acid. On post-mortem examination, the lungs were found tobe quite healthy, but in the laryux several neoplasms were found. One of these, the size of a small bean, was situated at the posterior part of the left vocal cord, and a smaller one on the same part of the right vocal cord. There was also a fringe of very minute growths along the ventricular bands. Dr. Mackenzie remarked that he believed this specimen to be unique, though there were examples of laryngeal growth in the horse and cow in the nusseums of Dresden and Fribourg, and there was one specimen of a growth in the larvax of a horse in the Museum of the Royal Veterinary College of London. He had little doubt that if these growths were

searched for in the larynx of dogs they would be found to be not at all uncommon.

and the Matter of the State of only other parts affected were the corresponding lymphatic glands. Most parts of the tumours show gelatimous arcolar cancer of the usual type. But there are parts that run into the characters of sercoma. My belief is that these elements represent transitional forms from cartilage. Very similar appearances are often found in the tumours from the parotid region in the neck, which vary from mucous tissue and cartilage. The colloid matter is, however, more plentiful in these speci-mens than usually in the cervical tumours. The extensive diffusion of the tumours in the skeleton and in no other part is interesting, and several such cases have been recorded.

Mr. HULKE asked why he considered the disease primary in the bones, and not in the other organs mentioned.

Dr. Moxon said he could find the disease nowhere else except in glands so placed as to lead to the belief that they were secondarily affected. The bones were also most generally affected.

Mr. West, of Birmingham, exhibited a specimen of Rapidly Growing Cancer of the Upper Jaw. It occurred in a man, aged 24, who had been healthy, except that he had a tumour in either parotid region. In November last pain began in the in ettner parotic region. In November last pain began in the right upper jaw, and an abscess in the antrum was suspected. He saw the patient in January, and found a swelling protruding the eye and pushing down the soft palate. The submaxillary glands were large and bard. He removed the jaw, but the patient died.

In reply to Mr. Arnott, Mr. West said the hard glands supposed to be strumous were not examined.

MEDICAL SOCIETY OF LONDON.

MONDAY, FEBRUARY 27.

JOHN GAY, Esq., F.R.C.S., President, in the Chair.

112. Caise read a paper on

SMALL-POX AND ITS PREVENTION, WITH A RECORD OF EXPERIMENTS UPON THE LOWER ANIMALS.

The subjoined are some of the conclusions arrived at by the nuthor:—That no deleterious effect is produced upon the human constitution by the introduction of cow-pox matter—an inference greatly strengthened by the fact that, since the Kingdom has nearly doubled. That Government Hospitals should be established in the metropolis, in suitable localities, and provided with proper beat-chambers for disinfection. That, looking to the important fact that in the year—1831 to 1800—12,071 deaths occurred in England and Wales from persons under 13 years of accept reconsulted 14 years of accept persons under 13 years of age, the recommendation given by the Privy Council and by the London College of Physicians should not be followed, but that where there is danger of infection, children of all ages should be revaccinated. three is no sufficient reason why lymph, during the time of an epidemic, when it is often difficult to procure, should not be taken from adult persons, provided they are free from disease and the vesicle presents a normal appearance. That more extended observations are needed before we can come to the conclusion that the amount of exemption from small-pox depends upon the number of marks upon the arms from previous vaccination. That before this and other contagious diseases are likely to be greatly arrested, a central board of health should be established, to regulate all matters relating to the health of the people; and that, irrespective of Medical officers of health, who should exist in all large cities and towns, an inspector for each county should be appointed, whose duty it should be to collect and arrange all important information from the Medical Officers of Health and from the Poor-law Medical Officers, and report weekly to the central authority respecting the prevailing diseases and other sanitary matters.

NEW INVENTIONS.

HERRING'S ALCOHOLIC SOLUTION OF SULPHUROUS ACID.

THE Messrs. Herring, of 40, Aldersgate-street, have forwarded to us a sample of their alcoholic solution of sulphurous acid.

to us a sample of their account solution or surpairous acid, a description of which we may quote from their letter—
"The solution is produced by passing sulphurous anhydride in a purified state into alcohol (90 per cent.), until one volume contains 100 volumes of the gas, or 27.2 per cent. by weight. Such solution is at least ten times as powerful as the ordinary sulphurons scul of commerce, and upwards of fire times the strength of the recognised officinal solution now used in medicine. The rapid evaporation of this alcoholic solution no measure. In rapid evaporation of this according southern upon exposure to air, and consequent disengagement of 100 times its volume of the powerful reducing agent with which it is saturated, must, we think, claim for it a trial in those cases in which the use of powerful disinfectants is found to be песенвату.

The preparation is a colourless liquid, of intensely pungent sulphurous smell, and instantly bleaching litmus. We should recommend it for all the cases in which sulphurous acid is used by our energetic friend Dr. Dewar, and others—as a disinby our energetic friend Dr. Dewar, and ciners—as a cuan-fectant and decoloriser of the air; as a gargle, or in form of spray to the throat (properly diluted); as a disinfectant of larders, kitchens, etc.; and means of extinguishing contagion.

CHALYBEATE LEMONADE, AND CHALYBEATE SALINE LEMONADE, ETC.

(May-Davis and Co., Esher-street, Page-street, Westminster.) WE are of those who think that the distinction often drawn between food and physic is arbitrary and untrue. The food ought to contain everything essential for the due discharge of for the action of the bowels, the due secretion of water, the proper growth and building-up and repair of the tissues, and the performance of cerebral functions. If either of these are in default, instinct and experience should teach us to accommodate our food to our wants-to add some acid fruit to our diet. or more water, or more salt, or fat, or some sugar, or alcohol, or coffee, as the case may be. These failing, experience has taught civilised man to use drugs or extraordinary adjuncts to do what ordinary food cannot do. Most drugs are nauscous, but there is no reason why they should not be rendered as palatable by art as ordinary food is by nature. We wish there were—and we throw in the hint that there ought to be—devised certain subtle combinations of tonics, nutrients, salines, palatable enough to be used at meals. Messrs, May-Davis have set an example: they have introduced steel as a refreshing beverage, example: they have introduced steel as a refreshing becrage, in which no steel is tasted except as an arrier spensic. One form is dosed with saline matter, for the benefit of those whose kidneys require a fillip. Both are useful and palatable conversions of the "nauseous draught" into the sparkling beverage.

TAPIOCA BEEF, BOUILLON COMPANY'S SOUP (GEYELIN'S), LIEBIG'S EXTRACT OF MEAT, AND BRAZIL TAPIOCA COMBINED.

This preparation answers to its description; it makes a nutritious and agreeable soup at small cost and little trouble.

AGNEW'S COD-LIVER OIL JELLY. (James Agnew, 278, Great Homer-street, Liverpool.)

We have received a sample of this jelly, which we should think well suited for some patients who cannot take the oil in its natural state

The ten Naval Medical Officers just appointed to H.M.S.

Duke of Wellington will be on full pay of 11s. per diem from
the first inst. The position of these gentlemen will bear a favourable comparison with that occupied by their brethren of thirty years ago, who served on 6s. 6d. a day, and fared badly in the cockpit.

A FORMAL verdict of not guilty has been taken, Lady Saudys baving consented to withdraw from the charge of libel in the case of the Hon. Cecil Saudys, sister of Lord Sandys, against Mrs. Waters, wife of a Physician at Worcester.

MEDICAL NEWS.

APOTHECARIES' HALL. — The following gentlemen used their Examination in the Science and Practice of passed their Examination in the ocience and A. Medicine, and received Certificates to practise, on Thursday, March 2, 1871 :-

Edmundson, Thomas Robert, Guy's Hospital. Evans, Edward Beynon, Swansca.

The following gentlemen also on the same day passed their First Professional Examination :-

Dove, Harry, St. Bartholomew's Hospital. Stone, Charles Henry Augustus, Guy's Hospital.

APPOINTMENTS.

• • The Editor will thank gentlemen to forward to the Pub-lishing-office, as early as possible, information as to any new Appointments that take place.

Coles, Gro. CHAS., M.R.C.S.—Assistant-Surgeon to the Royal South London Ophthalmic Hospital. POTTLE, EDGAR GRORGE, L.R.C.P., M.R.C.S., etc.-Medical Officer to the St. Luke's Temporary Small-pox Hospital.

MILITARY APPOINTMENTS. Barver,—Staff Surgeon-Major David Stuart Erskine Baiu, M.D., who retires upon half-pay, to have the honorary rank of Deputy Inspector-General of Hospitals.

General of Hospitals,

Majora, Liberarwar-Burgeon Francis Holton, M.B., from 77th Feot,
to be Staff Surgeon, sice Samuel Fratt Wooffell, who exchanges;
Assistant-Surgeon William of Balloran, from Royal Artillery, to be Staff
Assistant-Surgeon William of Balloran, from Royal Artillery, to be Staff
Assistant-Surgeon bard fary; Assistant-Surgeon bard Arno Store Thorburn, M.D., from the 56th Foot, to be Staff Assistant-Surgeon, refer
Richard Herald Fits Gerald, appointed to the Staff Foot; Staff AssistantBalloran Hospitals, and the Staff Staff

ourgeon a. A. Aryse nas ocen permitted to retrie upon temporary nair-pay.

BOYAL ARTILLEAY.—Staff Assistant-Surgeon James Edward Clark, to be
Assistant-Surgeon, sice William O'Halloran, promoted on the Staff.

367st Foor.—Staff Assistant-Surgeon Richard Gerald, fits Gerald, to be
Assistant-Surgeon, sice David Arno Smet Thorburn, M.D., appointed to
the Staff.

77TH FOOT.—Staff Surgeon Samuel Pratt Woodfull, to be Surgeon, sice Francis Holton, M.B., who exchanges,

BIRTHS.

Bosn.—On February 28, at Havant, Hants, the wife of St. Quentin Bond, M.R.C.S., of a son.

M.R.U.S., of a son.

BRUNIES.—O'D. March 7, at 42. Brook-street, Grosvenor-square, Marian, the wife of Martin Brunjes, M.B.U.S., of a daughter.

Dazcox.—O'D. March 1, at the residence of J. B. Preeman, Eq., Upper Hamilton-terrace, St. John's-wood, the wife of Henry Peham Deacon, M.R.U.S. Eag., of Otters Ps. Mary, Devron, prematurely of a son.

HUNTER. —On March 2, at 18, Abererombie-place, Edinburgh, the wife of James A. Hunter, M.D., of a son.

James A. Hunter, M.D., of a son. Lawis.—On February 4, at Meerut, East Indies, the wife of Alfred Lewis, M.D., 4th (Q. O.) Hussaru, of a son. Miller, M.D., Blackheath, of a daughter.

Rosss.-On March 3, at Stamford, the wife of W. E. Robbs, M.B., of a daughter.

daughter.
Riosa.—On March 4, at 20, Grafton-square, Clapham, the wife of J. James
Ridge, M.D. Lond., of a son.
8uaw.—On February 28, at Thornhill, Dumfriesshire, the wife of Robert
Shaw, M.B. and C.M., of a son.

Thomsox.—On March 4, at Dunedin, Bournemouth, the wife of J. Roberts
Thomson, M.D., of a son,

MARRIAGES.

BROWNE—Dall.—On March 8, at North Berwick, by the Rev. Ebenezer
Dall, unde to the bride and bridegroom, assisted by the Rev. Mr. Calvert,
Dr. Thos. Browne, R.N., H.M.S. Eccellent, to Agnes Bobertson, second
daughter of the late James Dall, Esq., J.P., North Berwick, East Lothian. chaggeer of the inter James Dail, Eng., J.Y., North Berwick, Jose Lechan. Current.—ALTEN. "—On March I, at 18. Respleate North, Paddington, Lorent, Paddington, and Compared C

DEATHS.

CANHAN, JOSEPH, M.D., J.P. for the county of Kent and the Cinque Ports, on February 28, in London, aged 75.

CANER, CHARLES, M.R.C.S., son of the late John Carne, of Tresillian, near Truro, on February 28, aged 55.

GROWSE, ELIZA, relict of the late John Growse, Surgeon, at Hadleigh, Suffolk, on February 27. Suffolk, on February ??.
Hurser, T. K., M.D., inte of Billinghurst, Sussex, at Nelson, New Zealand, on December 22, 1870, aged 29, deeply lamented by all who knew him.
Markitron, Dr. Carralli, C.B., Inspector-General of Hospitals, and Honorary Physician to the Queen, at Campbellown, on March 2. PAUL, REGINALD, youngest child of Dr. Paul, at 26, Burton-crescent, on March 3, aged 2 years and 7 months.

MARCH S, agou z years and t months.

SANKRY, FRANCIS FRENOULY, M.D., R.N., late of Malta, at Carlsruhe
House, Malvern Wells, on March 2, in his 81st year.

WATERFIELD, THOMAS, M.D. Cauteb., F.R.C.P., at 19, South-street, Thurlos-square, on March 5, aged 81.

VACANCIES.

In the following list the nature of the office vacant, the qualifications of the office vacant, the qualifications made, and the day of election (as far as known) are stated in succession. Brautoras (Pauss or).—Model of Officer wanted for five districts of this parch, Cambidates made be drow "lived to Garagian of the parch of the part of the parch of the

DUNDER ROYAL INFIRMANT.—House-Surgeon. Further particulars of the Secretary, on or before March 22.

DORSLAY UNIX — Medical Officer for District No. 5. Candidates must have the qualifications prescribed by the General Orders of the Poor-law Board. Applications and testimonials to G. Wenden, Clerk to the Guardians, on or before March 15.

HABTLEFOOL HOSPITAL.—House-Surgeon and Sceretary; must have both Medheal and Surgical qualifications, and be registered. Applications testimonials to the Secretary, at the Hospital.

continuoniais to the Secretary, at the Hospital.

Hospital ron Worst, Sono-squars, W.—Assistant-Physician; must be
a graduate in Medicine of some recognised University, and be M.R.C.S.
Applications and testimoniais to H. B. Ingram, Secretary, on or before
March 18.

KENT COUNTY OPHTHALMIC HOSPITAL.—Consulting Surgeon; must be duly qualified. Applications and testimonials to R. Pearson, Esq., Secretary, Maidstone, on or before March 18.

KNIGHTON UNION, RAGNOBBHER.—Medical Officer for the Brampton Brian District. Applications and testimonials to E. H. Descon, Clerk to the Guardians, on or before March 15.

Guardians, on or before marca is.

Liverscool. Dispersaniza.—Two Assistant Resident House-Surgeons are wanted. Candidates must be duly qualified and registered. Applications and testimonials to the Secretary, at the Dispensaries Office, Leith Offices, Liverpool, on or before March 29.

METROPOLITAN FREE HOSPITAL.—House-Surgeon. Applications and testi-monials to the Secretary, on or before March 14.

MIDDLESEX HOSPITAL MEDICAL COLLEGE.—Lectureship on Physiology.

Applications and testimonials to the Dean, on or before March 30.

ROYAL SURREY COUNTY HOSPITAL.—Assistant Honorary Medical Officer.
Applications to the Rev. C. R. Dallas, Farncombe Rectory, Godalming, on or before April 37. on or vetore April 27.

8w.MADE. HOSPITAL.—Resident Medical Officer; must have both Medical and Surgical qualifications. Applications and testimonials to the Secretary, on or before April 12. Election on the 20th. The duties will commence on May 1.

wise commerce of May 1.

Tennature Vision,—Medical Officer for the Almondsbury District. Candidates must be duly qualified and registered. Applications and testimonials to the Clerk's Office, Thornbury, on or before March 16. Elec-

tion on the 17th. tion on the 11th.
Tillhome Vision.—Kilbroom Dispersabl Disperic.—Medical Officer; candidates must be duly qualified and registered. Applications and testimonials to M. Manus, Kno. Sec., Kibeggan, on or before March 13. Personal attendance of candidates will be required.

West LONDON HOSTITAL.—Junior Surgeon; must be a Fellow of one of the Royal Colleges of Surgeons of London, Edinburgh, or Dublin. Ap-plications and testimonials to the Secretary, on or before April 12. Westminster Hospital.—Besident Obstetric Assistant; must be duly qualified and registered. Applications to the Secretary, on or before March 14.

POOR-LAW MEDICAL SERVICE.

. The area of each district is stated in acres. The population is omputed according to the last census.

omputed according to the last census.
APPOINTMENTS.
Banbury Union.—James Dewar, L.F.F. and S. Glasg., to the Middleton benery District.
Farnham Union.—Robert O. Clark, M.R.C.S. Eng., L.S.A., to the North

District.
St. Assph. Unice.—John R. Hughes, M.D. Edin., M.R.C.S. Eng., L.S.A., to the Deshligh District.
to the Deshligh District.
The Committee of the Committ

PROFESSOR CORFIELD desires us to say that his name was mentioned as a candidate for the vacant Assistant-Physi-

DR. HEYMOOD SMITH, of Portugal-street, Grosvenor-square, has been appointed a Physician to the Hospital for Women. Solon-spuare.

omen, Soho-square. By the death of Dr. Campbell Mackinnon, C.B., the post of Inspector-General of Hospitals in Scotland has become recent

THE President and Committee of the Quekett Microscopical Club have issued cards for a conversations at University College, Gower-street, on Friday evening, March 17, at 8 o'clock.

THE gentlemen who have passed their examination at Chelsea Hospital, for admission to the Army Medical Department, will, we believe, be gazetted as Assistant-Surgeons early in April.

Ar the Countess Granville's brilliant "at home," given on Saturlay last, at the Foreign Office, the following members of the Medical Profession were present.—Dr. Burrows, Dr. Gerrard, Dr. Rynolds, Dr. Storrar, Dr. Gull, Dr. Braxton Hicks, Dr. Playkinj, Dr. Brewer, M.P., Dr. Greenhow, Dr. Carpenter, Professor Huxley, Dr. Sibson, Dr. Quin, Dr. Priestley, etc.

WE regret to learn that the Asylum for Idiots is suffer-

ing from straitness of funds.

THE Overland China Mail says that small-pox was provident at Hone Kone.

prevalent at Hong-Kong.
In the Bankruptey Court, on Monday, in two cases, the

sittings for examination were adjourned in consequence of the bankrupts having the small-pox.

THE Oscestry Advertiser says, "The small-pox has gradually approached us until it is in our midst. We hear of

gradually approached us until it is in our midst. We hear of it at Llanfyllin, where there are said to be thirty cases, at St. Martin's, and at Oswestry."

MR. SPOONER, the stipendiary magnitrate at Wolverhampton, has ruled that in a prosecution for neglect of vacination, it is necessary to produce the child, and prove that vaccination has not been performed. He has granted a case on the point for argument in the superior conts. AT a recent meeting of the Trustees of the Chard,

AT a recent incetting of the Trustees of the Chard, Crewkerne, Ilmineter, and South Petherton Friendly Society, it was resolved that, in consequence of the impracticability of reinstating it, the funds, amounting to about £900, should divided between the Crewkerne Hospital and the Taunton Hospital—one-third to the former, two-thirds to the latter.

THE titudois says that "two celebrated English Surgeons, Drs. Wyatt and Gordon, who, after having brought gifts from their country for the French sick and wounded, remained in Paris, where they shared the privations and dangers of the siege, have been named Officers of the Legion of Honour. Dr. Wyatt has prepared a valuable account of the treatment of wounds and sickness in the Hospitals."

Mr. WARDE, an attaché of the English Embassy at St. Petersburgh, has died from the effects of a malignant abscess, caused by a bite on the lip by a parrot.

THE Dublin Poor-law Union Guardians are adopting the practice of sending the drugs and medicines supplied for the use of the in-door paupers to a chemist for analysation. It has been discovered that certain samples, forwarded for this purpose, were of an adulterated or very inferior quality.

Dr. W. H. Stone, M.A. has been lecturing at the London Institution, on the Aconstics of the Orchestra. In his corollum he enforced the importance of cultivating the sense of hearing, showing the great value in the case of the Physician, who, in these days, depended so much on auscultation.

GLASOOW OPHTHALMIC INSTITUTION.—This Institution seems from the report just presented to the Annual General Meeting, to be in a prosperous condition. The number of individuals under treatment prior to November 1, 1869, was 450; now cases admitted, 139; out-door patients, 1465; total, 2054. The cash statement showed that £f881 19s. 7d, had been received, and that the balance in hand, after paying £1287 19s. towards the "building fund," was £303 9s. 3d.

MORTALITY IN PARIS.—In 1869-70, from September 18 to February 24, the number of deaths in Paris was 21,978; in the corresponding period just concluded, the number was 64,154.

BENEVOLENCE,—The Great Northern Hospital has second sure of £1000 from 'S. W. G." a third sum of £1000; the National Society for the protection of young girl, Wanstead, a third gift of £1000 from 'D. H."; and the Infant Orphan Asylum a second sum of £1000 from 'G. W."

THE BLAIR INFIRMARY, BOLTON.—Mr. Jas. Knowles, of Eagley, has offered five across of land at Turton as a site, if the trustees should deem it suitable. The proposed Infirmary is to be creeted at a cost of £30,000, and Mr. Blair bequeathed a further sun of £10,000 as an endowment.

Washlable Paper.—We (Builder) have been looking at some specimens of washable paperhagnings, which seem to possess important economic and sanitary advantages; it surface is non-absorbert, whilst it has the same dead, unpolsed appearance as the ordinary paper, and is quite an optimise of being cleaned by simple washing with some continuous paper, and is quite and the continuous papers, and it quite and observed the continuous papers of the con

HYDROPHOBIA is so provalent in the neighbourhood of Wigan, that the Mayor of that borough has issued an order directing all dogs to be confined for a month.

MEDICAL NEWS.

DEATI FROM HYDIOPHONIA.—On Seturalay an inquest was held at Bolton as to the death of a girl numed Ann Bradbury, aged 4 years. On Tuesday, the I ith ult., the child was bitten, along with several other children, by a rabid dog, which had been roaming about the country for two or three days. The mother took the child to Dr. Cawthorne, who cauterised the wound, but on Friday a change took place in the child, and she was removed to the full many, where she died on Saturday. A verificit in accurations with these facts was to be confined for same time to come was agreed usen.

SEWAGE DEFECATION—Mr. Buyley Doutton's system to purifying sewage, by difficult through event level of sail, the liquid being collected in subterranean drains and conveyed into the river, is working admirably at Merthyr. The whole of the awrage of the town is discharged upon twenty acres of land, and the water, as it issues from the drains of the filtration, on analytic test, contains nothing but a little sand and irro—a capital tonic.

SPONOT IRON AS A DEODORISEE.—Dr. Voolcher declares spongy iron to be a deodorising material of greater control of the deodorise of the second of the second like of this michanica is aid to be completly purified, and this filtered water, after having been kept at mouths protected from the air, has been found to be perfectly sweet and free from any fungoid growth. The spongy iron is obtained by readening a finely divided iron over with charcoal.

by calcining a finely divided iron-ore with charcoal.

KILMAINIAM HOSPITAL, DUBLIN.—The Committee
appointed to report on the Royal Hospital of Kilmainham,
have recommended that extra inducements be offered to nurse
to take service in the Hospital, and have pronounced, decidedly,
against the monatic character of the institution and the excossive quantity of the rations issued to the immates. The
Committee also state that if orderin officers of ont-pensioners
were quartered elsewhere, and certain reductions made in the
for the admission of forty more pensioners. The racancy
amongst the captains of invalids, caused by the death, in
November last, of Captain IR. Nicholson, is not to be filled.

ROYAL INSTITUTION OF GREAT BRITAIN.—A& the general monthly meeting, held on Monday, March 6, Sir Heary Holland, Bart, M.D., D.C.L., F.R.S., Fresident, in the chair, William Blenkin, Esq., John Browning, Esq., Edward Maynard Denny, Esq., Frederick A. Eck, Esq., Sir Frederick Elliot, K.C.M.G., Golonel Augustut Lane Fox, Paul Orlahm, Esq., Colonel James Angustus Grant, C.B., Edward Walter Grubbe, Esq., George Harcourt, M.D., Captain F. Helbert, George William Henderson, Esq., Goorge Middleton Keill. Esq., John Kennedy, M.D., James Masculey, Fact, Kenneth Robert Murchison, Esq., Mir. Shreffield Newro, George W. Loyston Egott, Chandler Roberts, Esq., W. Dehague Routh, Esq., Mr. W. Castle Smith, and Thomas Sowerby, Esq., were elected members of the Royal Institution.

of All Morphorests and the count of a case of self-imposed starvation, searly ending in death, is related by the Medical Officer of the Military Prison in Cork. A soldier, a man of extremely bad astecodents, aged 25 years, was admitted into the prison on June 10, 1899. He frequently reported himself sick, but on no cocasion was there the slightest symptom of such that the contract of the sick but on the cocasion was most carefully examined, and found to be in excellent health. On the 11th he refused to do any prison duty, and lay down in the prison yard. From this date he refused self rod. He was carefully examined day after day, but no trace of any became weaker daily, and on the 19th his pulse fell to 66, and was soft, equable, and obliterated by the slightest pressure. His respirations were ten in the minute, his tongue dry, but clean; his eyes became dail and glassy, and his voice whispering. As his condition was now adaming, and he still refused but, on seeing this course would be adopted, he took several spoonfule of sage, and wine both and the sum of the condition was now the probability recovered to be removed to the Garrison Hoppital. His intellect continued clear, and he asswered days' abstingent from \$100. He drank water freely. He

weighed 138 pounds while in prison, and on transfer to weighted 130 pounds while in prison, and on transfer to Hospital 112 pounds, this losing twenty-aix pounds, owing to his determined abstinence from food. The Medical officer had no doubt that the man was quite free from all disease, mental and physical, and starved himself to escape prison duties, in effecting which object, however, he very nearly seneffect his life.

THE ROYAL SANITARY COMMISSION has concluded its protracted labours, and completed its very voluminous report.
It is said the Commissioners have done their work so thoroughly that they have brought together the materials for the new statute in a compendious form. Their proposals are really of gigantic dimensions. There is even a suggestion of a great central authority to swallow up the Poor-law and Public Health Departments, the Local Government Act Office, the Registrar-Departments, the Local vovernment Act Omee, the Registrar-General's Office, and certain sanitary powers now exercised under the Home Office, the Board of Trade, and the Privy Council. Every local health-authority would be required to appoint a Medical Officer of Health, while, "in order to keep all the local authorities well up to their work," an adequate staff of central inspectors would be necessary, and it is proposed to combine the inspectors now attached to the Privy Council, the Home Office, the Local Government Office, and the Poor-law Board, into one inspectorate. The final recommendation is that the registration of births should be made compulsory in England, as in other parts of the United Kingdom, and it is also proposed that a registration of disease should be instituted such registration to be confined, at the outset, to cases occurring throughout the public Medical practice of the country, and to embrace only such details as can be satisfactorily obtained, and as may be most useful for the purposes of sanitary inquiry.

THE MEDICAL POOR-LAW INSPECTORSHIP .- We understand that the Poor-law Medical Inspectorship, vacant by the death of the late lamented Dr. Hill, has been conferred on Dr. death of the late namented Dr. Hill, has been conserved on Dr. Burke, of Westport. We are gratified to find that the Poorlaw Commissioners, in appointing this gentleman, have recognised the principle of promotion in the service. Dr. Burke belongs to that most valuable and hard-worked body, the Dispensary Physicians of Ireland. It is only right that when any office for which such gentlemen are peculiarly adapted becomes vacant it should be filled from their ranks Underpaid and overworked, it is the least that this most deserving body, numbering one-half the Medical men of Ireland, should be able to look forward to such advancement as has been given on the present occasion to one of their most efficient members. The Poor-law Medical Officers' Association of Ireland may congratulate itself on the establishment of this precedent, which it strongly urged on the Commissioners in a resolution adopted a few weeks ago.

MORTALITY OF PARIS.—The following is a complete statement of the mortality of Paris for the period of the siege

									year:-	
or the Week	endi	ng			1909-7	50.			1970-71.	
Septembe	r 24				820				1272	
October	1				718		- 1			
29	8				747				1483	
**					752				1610	
**					825				1746	
					880				1878	
Novembe	r 5				921				1762	
99					877				1885	
99					900				2064	
									1927	
December					846				2023	
49					882				2435	
10									2728	
99									2728	
									3380	
January									3680	
29									3983	
19									4465	
. 11									4376	
February									4671	
**										
99									4103	
**	24				1362				3941	
	September October " " " " November " " " December " " " January " " February "	September 24 October 1 7 8 10 10 10 10 10 10 10 10 10 10 10 10 10	October 1 N 8 1 15 2 2 2 2 November 5 1 12 1 19 1 29 1 19 2 19 1 10 1 11 1 17	September 24 October 8 1 15 1 22 1 29 November 6 1 12 1 29 November 6 2 3 1 12 1 17 1 17 1 24 1 31 1 31 1 31 1 31 1 31 1 31 1 31 1 3	September 24 October 3 1	September 24 829 October 1 718 N 5 7767 N 6 7767 N 7 5 7767 N 7 5 7767 November 5 921 November 5 921 November 3 846 November 3 846 November 3 846 November 4 986 November 5 921 N 12 877 N 15 946 N 10 886 N 17 985 N 17 986 N 19 986 N 19 986 N 19 986 N 19 10 98	September 21 820	September 21 820 October 1 78	September 24 820	September 24 820 1272 October 1 18 113 1 718 113 1 15 742 1 16 16 2 825 1746 1 29 880 1878 November 6 921 1762 12 877 1885 12 877 1886 15 960 2064 16 366 1927 17 955 223 17 955 2228 13 90 2728 13 192 3380 13 998 3983 13 998 3983 13 998 3983 10 110 360 11 90 30 10 113 451 10 1139 4451 10 1139 4451 11 1292

21,978 To this it has only to be added that in the last week the mortality has fallen to 3500. The deaths from small-pox have been reduced to 134.—Daily News.

64,154

Total .

ROYAL COLLEGE OF SURGEONS,-The proceedings of the ordinary meeting of the Council, on the 2nd inst., were, as usual, suspended in the hall on Thursday for the inspection of members. After the transaction of some uninteresting proceedings, the Council proceeded to the consideration of the draft scheme for an examining board in England, prepared by the Committees of the Royal College of Physicians of London, of the Royal College of Surgeons of England, and of the Society of Apothecaries of London. It was moved and seconded :-"That Section 1 of such scheme be adopted, viz .- 1. That one board of examiners in this division of the United Kingdom be appointed by the Royal College of Physicians of London, the Royal College of Surgeons of England, and the Society of Apothecaries of London, for the examination of candidates who desire to practise Medicine, Surgery, and Midwifery Moved, as an amendment, by Mr. Simon, and seconded by Dr. Humphry-"That the Council of the Royal College of Surgeons disapproves of the present draft scheme for a Conjoint Examining Board for England, and remits it to the Committee for reconsideration, with particular reference to the following two points, viz.:—First, that the Council, when it agreed to negotiate for the formation of a Conjoint Board, intended and understood, as the basis of the negotiations, that from and after the formation of a conjoint board, each of the co-operating Medical authorities would, as far as possible, refrain from exercising its previous separate privilege of giving admission to the Medical Register, and that the Council cannot consent to take part with other Medical authorities in constituting a Conjoint Board, unless such authorities consider themselves bound by that principal. Secondly, that the Council hoped to see the English Universities associated with the English Medical Cor-English Universities associated with the English rescuent cor-portations are contributories of examiners or assessors to the portation are contributories of examiners or assessors to the in any proposal which excludes the Universities from so eating." The votes of the Council were therespon taken on the amendment, and on the demand of Messrs. Simon and Hewett, the names of those voting for and against the same were directed to be entered on the minutes, viz :- Majority for the amendment, seven: Mr. Lane, Mr. Curling, Mr. Hewett, the amendment, seven: Mr. Lane, Mr. Cutung, Mr. Howett, Mr. Birkett, Mr. Simon, Dr. Humpbry, Mr. Lee. Minority, against the amendment, six: Mr. South, Mr. Hilton, Mr. Busk, Mr. Haneock, Mr. Holden, Mr. Wilson. The amendment was consequently carried. A letter was read amendment was consequently carried. A letter was read from Mr. Oliver Pemberton, of Birmingham, requesting election as an Honorary Fellow under the charter relating to members of twenty years' standing. Wherenpon it was resolved that Mr. Pemberton be referred to clauses 7, 8, 9, Wherenpon it was section axii. of the by-laws, and that, without bringing their communications before the Council, any future applicants for admission to the Fellowship on similar terms be referred to the above clauses. A letter was read from Dr. C. E. Saunders, of above causes. A exter was read from Dr. C. Saunteers, or Hayward's heath, a member of the College, advocating the ensembent by the Council of a by-law enabling graduates in Medicine of Pittish Universities to be admitted to a medified examination for the Fellowship. Dr. Saunders was informed that his letter had been duly submitted to the Council. It will be in the recollection of the readers of the Medical Times and Gazette that formerly graduates in Medicine were examined in Surgery only; this regulation, however, was soon after rescinded. Mr. Solly's resignation as an examiner was received, and a special meeting of the Council appointed for Wednesday next to fill up such vacancy. The thanks of the Conneil were voted to Sir William Fergusson, Bart., for his oration, with a request to sit william responsor, bare, for insorator, was available that he would publish the same. Dr. William McCormae was admitted a Fellow of the College, and Messrs. Edward Bradford, of Harrow, and Henry Weckes, of Barnstaple, were elected Fellows, their diplomas of Membership bearing date respectively, June 16, 1826, and July 1, 1836.

In a paper read before the Surgical Society of Ireland. "On the Connexion between Certain Defective Sanitary Conditions and Disease," Dr. Charles Frederick Moore speaks of the difficulties attending investigations into the causes of a given case of disease, whilst he regards it as well established that certain conditions favour the development of zymotic and other disorders. Less frequent respiration, followed by permanent amendment, occurred on improving the ventilation of the bedroom of a child sick with a gastric febrile attack, Dr. Leyden's recent experiments showing that the increased excretion of carbonic acid aids the solution of the case just mentioned, and justifies long experience on scientific grounds. Dr. Moore alluded to the injurious effects of contamination of the air of dwelling-houses, factories, etc., by imperfect arrangements in the use of firing and gas, and gave cases where scamping

in the construction of sewers produced serious illness, mentioning many forms of imperfect drainage to which grave results owed their origin. Typhus in a fatal form occurred in a hous owed their origin. Typhus in a fatal form occurred in a none saturated with sewage matters; in another instance pastic fover, serofulous and bronchial affections haunted a house similarly circumstanced. Overcrowding, deficient ventilation, the seron of the seron of the seron of the seron of the property on the seron of the seron of the seron of the seron children have died within less than the same number of months. chiagreen nave ducd writam iess than the same number or montan-An important case, similar, in some features, to one related before the Chemical Section of the Philosophical Society of Glasgow, and to another mentioned by Mr. S. J. Barber, is recorded from Dr. Moore's practice, in which corrosion of the lead trap of a water-closet was due to the action of carbonic tean trap or a water-closer was one to the action or corrotate acid, generated by decomposing organic matter, according to Mr. Charles R. C. Tichborne's opinion, who corroborated Dr. Moore's analysis of the injured lead. Inhalation of sewer gases, as generally experienced, produces disease in different gases, as generally experienced, produces discussed in different forms, according to the condition of the sufferer, as to age, sex, and strength, and also varies with the climate, locality, season

THE quality of the food served out to the prisoners is, generally speaking, good and abundant. This, however, does not always prevent complaints being made in regard to it: for, when people have nothing to do but grumble, the cooking always affords a ready theme for discontent. I have seen at atways anores a resuly meme for discontent. A have seen, as the extravagantly covered tables of the hotels in America, moses turned up at dishes which would have constituted the shows turned up as unables which would nave constituted the glovy of a Paris restaurant in the piping times of peace. To show the sufficiency of the rations allowed, I will quote the dietary list for a single day, which I was allowed to take down from the wall of the steam-cooking establishment of the camp at Mayence, against which so many hard things were justly said at the commencement of the war. Dietary of the Privates: Per man, 9 ozs. of beef, 7 ozs. of pork, or 5 ozs. of Fivales: fer man, you, of beet, 7 ozs. or port, or ozs. or salt pork; 20 ozs. of hardot beans, peas, or lentils; 12 ozs. of rice or barley; 1 oz. of flour is added to the hariots or peas; 1 oz. of softe, 1 bs. of recal.—Report made to the Executive Committee of the Society for Unifor the French Prisoners in Germany, by Thomas W. Ecans, M.D.

NOTES, QUERIES, AND REPLIES.

De that questioneth much shall learn much .- Bacon,

H. P.-Try Curtis's preparation.

North Subscriber. - Dr. Macleod, Ben-Rhydding, Yorkshire.

Barker-street, Birmingham .- A wrapper bearing this post-mark has come to hand without contents.

Buckle's " Cinchona Fluida." - We are informed that Mr. Buckle, the wellknown chemical operator, has given the distinctive name " Cinchons Fluida" to his liquid extract of bark.

E.-Dr. Dewar's antiseptic fuel may be obtained from himself at Kirkcaldy. It is a very convenient and effectual means of fumigating with sulphurous and carbolic acids. It is in the form of cakes, which may be considered as huge pastilles, and which smoulder on when once set on fire.

Tyre.—Wafer-papers to enwrap nauseous medicines may be had of most chemists. They are sold by Maw, of Aldersgate-street, under the name of "Pains Asymas." They are moistened to make them flexible, and the powder or the substance wrapped in them in the form of a bolus is easily swallowed. By-the-bye, the bolus, which may be as large as a dozen pills, ds a neglected form of medicine. They are no larger than "capsules."

"A MINISTER OF HEALTH AND THE POOR."

"A MUSITER OF HEATH AND THE POOR."

fin—Now that the power which have been divided between the Poorlaw Rose that the power which have been divided between the Poorlaw Rose that the power which have been divided to make one certain anthonity—tit, a "Minnter of His to consolidated under one certain anthonity—tit, a "Minnter of His to consolidated under the old representation of the conditions or beatt that the they have been divided to the property of the poor having a head under the old rigina.

The next step I would suggest is, for health to be brought to the rich would necessitate a new department organization; but that, I suppose. The next step I would suggest is, for health to be brought to the rich would necessitate a new department organization; but that, I suppose Tit is not for not to say how it is to be done: my duty is performed when I have been a new department or enforcing analizer, observances in substitution of the property of the suppose the produce notions efforts, houses in new would do well to keep a warming brother produce notions efforts, houses in new would do well to keep a warming brother produce notions efforts, houses in new would do well to keep a warming brother produce notions efforts, houses in new would do well to keep a warming brother produce notions efforts, houses in new would do well to keep a warming brother produce notions efforts, houses in new to the neighbours.

We are really very sorry, but we fear we cannot help it, and therefore e never to do so any more; but we begin to think we cannot touch on homosopathy without offending its votaries. On two separate occasions last month have we committed ourselves so far as to fall under the unsparing lash of our contemporary, the monthly Homeopathic Review, once with regard to the honour due to Hahnemann, and again with regard to that homocopathic diagnosis. Do we desire to detract from the honour and glory of their high priest! Far be it from us. Did he not discover the secret of all chronic disease—as liegt innere paora zu he not discover the secret or all through timeses on the south dilution Grunde-hiddenitch is at the root of the matter, and the 30th dilution of sulphur (itself being insoluble) is the cure for all things. And did e not, by the help of the cunning Cajetan Nenning, invent a whole Materia Medica pura, which is capable of exciting a feeling of dis-Materia Medica pura, watch is capable of exciting a recting of ungust in the minds of some of his more truth-spaking followers. Peace be to his ashes! He was a gigantic humbug! And then about that diagnosis. We really beg the pardon of the honourable fraternity for supposing them guilty of such a coarse allopathic procedure; doubtless, the skilled Practitioner carefully compiled the symptoms, turned to his repertory, and, after a few trials, succeeded in finding the exact homosopathic remedy. Many a one, now, would like to know the exact homocopathic remedy for an impregnated uterus. Pathology the brotherhood ignore; diagnosis is to them as nothing; but therapeuties they are great in !

BICHLORIDE OF METHYLENE.

BIGGIOSHO OF METWIKEE,

TO THE SOUTH OF THE SECOND THE

R. B .- There can be no doubt that the statement is accurate.

N. B .- The quotation is from Celeus

A Pertaer. - Recourse to law should be avoided. The matter should be ecttled by arbitration and by Medical friends.

REMARKS ON ANNUAL RETURNS.

TO THE ROPTOS OF THE MEDICAL THESE AND OAZETTE.

Sin.—This annual sanitary report may ansue your readers. The author is a very good specimen of his class; and his Professional skill is, I am glad to say, vary much better than his English.

Your's faithfully,

Cain, —, January II.

"During this year very heavy rains falls & Fevre attacked to the presons over and over in which many persons were disel, Fevre not yet removed." Removed is a final City & Isid, account of it, Modeler river saint of Kernovie in a fissal City & Isid, account of it, Modeler river saint Blundrawatee drawn near the City in which the people burns death hodies of Canesi, Jerose, Elephanta & all the Cattles batting is it, also the more considerable of the Cattle sainting is it, also the more likely of the State of the Cattle sainting the City Colores inconsequence of which they got lobe is not because of the Cattle sainting of the Cattle sainting the control of the Cattle sainting the control of the Cattle sainting the control of the Cattle sainting to the Cattle sainting to the Cattle sainting the Ca

He's for Leur wong man, more than the first state & also the City kept unclean in which several disease attacked to the men of this City.

"Rerrowlee, January 13. _____, M.D., In Charge Dispensary."

"Kerrowlee, January 13. _____, M.D., In Charge Dispensary." This is a sample of the kind of French or German many of ourselves would write

Poet's Corner.-The lines on John Hunter to which you allude were written by the eldest son of Sir William Fergusson.

An Old Subscriber, Plymouth.—The first number of the Medical Times was published on September 28, 1839.

Cuvier .- Mr. Frank Buckland, M.A., is a Member of the London College of Surgeons. He was formerly a Surgeon in the army—we believe the Horse Guards Blue. His father was the Dean of Westminster

VACCIRATION.

THE REPTOR OF THE REPTOR OF THE WHITCH THESE ADD GATETING. THE REPTOR OF THE WHITCH THESE ADD GATETING. THE REPTOR OF THE WHITCH THESE ADD GATETING. THE REPTOR OF THE WHITCH THE WHITCH THE WHITCH THE REPTOR OF THE WHITCH THE WHITCH

etc., etc.

There has lately been a good attendance of applicants for vaccination at
the station (which was appointed, at my suggestion, in the centre of the
city), and I believe that in a short time almost every child will be ac-

city, and a courre case in a mass since sumes very case the reresponding to the course of the cour

March 11, 1871. 299

- C.—The penalty is £20. It is doubtful whether the Act of 1815 was repealed by the Medical Act.
- A Master in Surgery.—You cannot be admitted ad sundem, inasmuch as this title was conferred on you simply on the payment of the fees without any examination in Burgery, after passing that in Medicine only. Write to the Secretary for the regulations on the subject.
- Lex, Bermondsey .- The case you mention is not nevel. You will find similar recorded in Morgagni, and a few days ago we read in the " Lette of the First Earl of Malmesbury," published by Bentley, 1870, page 199, that "General Armiger, aged 65, was married at eight o'clock last Saturday evening (March 20, 1770) to a lady between 30 and 40, went to bed, and was dead by one in the morning !"

and was deed by one in the morning!"

The Wealty Merical Interceptor of Sciences.

Sith or the morning of the present of the companies of the companies.

Sith or the morning of the companies of

ONE WHO DORS NOT BROAD BOLDIERS IN THE LIGHT OF CATTLE

A Student of Guy's Hospital .- The new regulation to which you allude applies only to candidates for the Fellouship of the College, who in future will only have four questions, all of which must be answered. For the Membership there will be, as heretofore, six questions, four of which must be answered. The examination papers are now lithographed in the College by a confidential officer,

Growth of the Nails .- "T. T." writes to us thu

Greeds of the Noils—"T. T., writes to us thus—
"I had a serve filmes last year. Some weeks after recovery I noticed
that the growing part of the sail was very this in every finger and thomb,
and as time went on a collision months after recovery it reached the
free edge. The the all-dege was very troublescent, splitting and cracking. After event less freely-deeped portion was such, and make
resumed its original approximation of the thin shell-attention to
the thin, half-attention of the thin shell-attention
the thin, half-attention of the thin shell-attention
appare, and splits very much. Corollary, The growth of the toe-sails
take half as much time spain as then of the high-reality.

INACCURATE ANALYSES OF CHLORAL HYDRATE.

IRACCHAITS AVALUES OF CHICAL HIPLATE.

WITH BALL FOR THE MEAN THE MORE THE MEAN THE AVENUE TO THE MEAN THE MEAN THE MEAN THE SILE. WE THEN SHE WE SHE WITH THE MEAN T

AND REPLIES.

March 11, 1871. 2909

Shlordown [772 per cost.], whereas all the other amples were said to have related to high the shorteon (varying from 63 to 50 de per cost.) that the reader was led to draw the inference that they were not chlorally that the reader was led to draw the inference that they were not chlorally that the reader was led to draw the inference that they were not chlorally that the control of the control of the control of the said of the shore statement, we placed our redot at one to be proof marketalac chloral of the control of the control of the said of the sai

Results of Analysis of Chloral Hydrate. Mr. M., Liverpool. Dr. Benjamin Paul. No. 1 stated to be Liebreich's 66.62 67.36 8 stated to be De Haen's 64.37 No 1 70-3 . 3 DOMEIERD AND CO. We are, &c. 47, Basinghall-street, London, E.C., Feb. 22.

AT, Basinghall-street, London, E.C., Feb. 22.

Restrictives of the Profession—Kens, or Northantron.

To THE PROFESSION—KENS, ON NORTHANTON.

TO THE STOTES OF THE RESIDIAL THERE AND GALTITE.

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and thereagh the neglect of depletions at the commensuement. For wast of this, the moveful matter is allowerfor, and cets not work for nature and art for many days. He search that all fervers, call them by what name yet of the contract of and through the neglect of depletion at the commencement. For want of

subscribe myself, &c.
Grosvenor-street, W., February, 1871. G. GODDARD ROGRES, M.D.

BOOKS RECEIVED-

SOURS REALITY ELP

The Blocket-Chemical Bath, being a Letter to J. Alihans, M.D., M.R.C.P., refuting his Pseudo-Chilique upon it, by J. F. J. Caplin, M.D.—Report Hand, Pseudo-Chilique upon it, by J. F. J. Caplin, M.D.—Report Hand, Law of the Management of the Chemical Bath of the Chemical Hand, M.D.—Physical Degeneracy, by Nathan Allen, M.D.—Physical Degeneracy, by Nathan Allen, M.D.—Speidol Degeneracy, by Nathan Allen, M.D.—Speidol Degeneracy, by Nathan Allen, M.D.—Speidol Degeneracy, by Nathan Allen, M.D.—Physical Degeneracy, by Nathan Allen, M.D.—Speidol Degeneracy,

PERIODICALS AND NEWSPAPERS RECEIVED-

PRIODICALS AND NEWSPAPERS REPETYED—
Morthly Honorophile Review, March—The Girlon Chronicles—The Milk
Morthly Honorophile Review, March—The Practice—The Milk
Morth—The Practitioner, March—Transactions of the Octoblogical
Morth—The Practitioner, March—Transactions of the Octoblogical
Morth—Thousand—The Philadelphila Medical Times—The Stationers
Ophthalmic Hospital Reports, Tol.
O

APPOINTMENTS FOR THE WEEK.

March 11. Saturday (this day), Operations at St. Bartholomew's, 1½ p.m.; St. Thomas's, 0½ a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 9½ a.m.; Royal Indon Opithalmic, 11 a.m.
Botal Instructions, 2 p.m. Mr. O'Neill, "Spirit of the Age,"

13. Monday.

Operations at the Metropolitan Prec Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Sectum, 2 p.m.; St. Peter's Hospital for Stone, 2½ p.m.; Royal London Ophthalmic, 11 a.m. MEDICAL SOCIETY OF LORDON, 8 p.m. Meeting.

14. Tuesday.

Operations at Guy's, 13 pm.; Westimaters, 2 pm.; National Orthogonical Great Portland-street, 2 pm.; Royal Piez, 2 pm.; Royal Lendon Opathalmir, 11 am.; pm.; Dr.; Foster, "Nutrition of Animale," BOYAL Moneral, and Custronical SOCIETY, 85 pm.; Mr. Jonathan Horlatinoon, "Clinical Report on Xanthalama Palpebrarum, and its as a Readener for Consumptive Patients," now, "On Contral America

Operations at University College Republic 2 p. m.; 84, Mary'n, 1; p. m.; Middleser, 1; p. m.; p. m.; p. m.; p. m.; p. m.; forest Northern, 2; p. m.; 8. Bartholomere, 1; p. m.; forest Northern, 2; p. m.; 8. Thomas's 1; p. m.; p. Optabulanie, Southwart, 2; p. m.; 8 samaritan, 2,50; m.; King's College Hospital (by Mr. Wood), Borra College Hospital (by Mr. Wood), Borra College Mary College Hospital (by Mr. Wood), Borra College Mary Co 15. Wednesday.

SOCIETY OF ARTS, S n.m. Meeting.

16. Thursday.

Operations at 8t. Georges, p. p., i Contral London Ophthalmis, 1 p.m.; Royal Orthopsedies 8 p.m. p. p., i Contral London, 7 p.m.; Duirersity College Hospital, 9 p.m.; Royal London, London, J. p.m.; Duirersity College Hospital, 9 p.m.; Royal London London, W. O. and W. D. J. Gani, "On the Inhalation of Calomel-vapour in Secondary Sphilis." David Discoveries,"

17. Friday.

Operations at Westernister on 11. Francy.

Madnine, 2 pm. 1 Contral London Oph-Madnine, 1 pm. 1 Contral London Oph-Madnine, 2 pm. 1 Royal Lotter of the Contral London of Parts of the Contral London or Parts of the Contral Location or Parts of the Contral Location of Nitrogen from the Contral C

VITAL STATISTICS OF LONDON. Week ending Saturday, March 4, 1870. BIRTHS.

Births of Boys, 1220; Girls, 1190; Total, 2410. Average of 10 corresponding weeks, 1860-69, 2174-6. DEATHS.

		Males.	Females.	Total.
Deaths during the week . Average of the ten years 1890-69 . Average corrected to increased population Deaths of people above 90 .	:	819 737-9	772 713·5	159t 1451·4 1596

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1861.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria	Whooping-	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhosa,
West		458125	33	3	7		7	2	4	2	3
North	***	619210	65		16		15	5	1		8
Central	***	383321	11		5		4	1		1	2
East	***	571158	52	. 5		1 3	17	3	6	4	200
Bouth	***	773175	52	7	18	8	10	3	6	3	5
Total		2903999	213	15	53	11	53	14	17	5	13

			OLO					
From Observations	at	the	Gree	meri	ch O	bseri	rato	
Mean height of barometer								29-959 in.
Mean temperature								45'7"
Highest point of thermometer								64.8
Lowest point of thermometer								30.1,
Mean dew-point temperature								20.1
General direction of wind .								Variable.
Whole amount of rain in the	ree	k,						0°11 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, March 4, 1870, in the following large Towns:

a la L

	tion in	Acre.	during	2 2	Temperature of Air (Fahr.			of Air (Cenl.)	Fa	
Roroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A (1871.)	Births Registered the week ending	Deaths Registered the week ending 3	Highest during the Week.	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3259469	41'8	2410	1591	64:8	30:1	45.7	7:61		
Portsmouth	125464	13.2		35	59 2	32 2	45'5			
Norwich	81787	10.8	56	32	59.5	29.0	42.7	5.95	0.10	0.22
Bristol	173364	87.0	196	88			i			
Wolverhampton	74438	22.0	71	31	62.4	31.8	44-4	6:60	0.51	
Birmingham	378574	48:3	306	153	64 2	29.6	45'1	7129	0.58	
Leicester	101367	81.7	66	39	68:7	27:5	44-1	6.73	0.18	
Nottingbam	90480	45'3	64	89	63 7	29-1	44'0		0.53	0:56
Liverpool	596225	103-0	420				45'1		0.33	0.84
Manchester	379140	84'8	316				45'2	7:33	0.38	0.97
Balford	193851	231	11/	60	65.3	33.4	45'0	7.22	0.32	
Bradford	148030	221	100	56	63.0	30'6	43.0	6.11	0.53	
Leeds	266108	193	180	110	63.0	30:0	42'9	99:3	0.35	
Sheffield	255247	11:5	186	119	68.0	31.0	44'0	6.67	0.58	0.74
Hull	135195	38'0	100	49		1	1			
Sunderland	108937	81-1	116	62						
Newcastle-on-Tyne	136293	25'5	198	89			43.9			0.00
Edinburgh	179944	40'6	180	105			46'5			0.76
Glasgow	477627	94'5	406				44 8			1.24
Dublin (City, etc.+)	322321	33'1	154	209	63.1	37'0	48'5	9'16	0.92	1'40
Total of 20 Towns in United Kingd'm	7336941	34'4	555	8747	65 2	27:3	467	7:06	0.56	0.66
Paris-Week ending	188984	96	1	1	1	1		1	I	
Vienna-Week end		1	1	1					1	l
ing Feb. 18 Berlin-Week end	. 622087	68	***				***			
ing Mar. 4	. 800000			1	1	١	١	I	1	

• The actual numbers of the population of these cities and boroughs, as summerated at the Census in April next, will probably be available before the middle of the year, and will then be substituted for these estimates.
• Inclusive of some suburbs.

ORIGINAL LECTURES.

LECTURES ON DISEASES OF ORGANS AND TISSUES, AS INFLUENCED BY THE NERVOUS SYSTEM.

By THOMAS LAYCOCK, M.D., etc.,
Professor of the Practice of Medicine, of Clinical Medicine, and of Medical
Psychology and Meatal Diseases, in the University of Edinburgh.

(These lectures have been revised, and somewhat extended, by

Dr. Laycock.)

I program I

(Concluded from page 242.)

The law of degeneration, as a retrocession to a lower kind of tissue-change, may be applied to the pathological anatomy and chemistry of organs and tissues, and enable us the better to understand the neurotic causes of morbid changes. Thus, nervous debility, considered as a deficiency of trophic energy, will coincide with anatomical and chemical tissue-changes of a lower type. The production of uric acid, the meteries merbi of gout, is an illustration; it is a normal chemical product of transformation of tissues in reptiles and birds; in man it is abnormal, being a retrocession from urea. So lactio acid appears to be the result of a retrocession in muscular transformation from a higher compound. Carbons and hydrocarbons as pigments and fats follow the same law as to place of production; anvolved decenerations are chitinous.

In diathetic anatomy, diagnosis, and therapeutics, the evolutional law of tissue-anatomy upon which I found my clinical view of diatheses is an important guido to pathological inquiries. Nothing can be more vague than the current doctrines. Eminent French Physicians speak of a "herpetic" diathesis, or of an "asthmatic" diathesis-phrases that have really no definite application to tissue-changes, and are, I think, worse than useless. I must remind you that the word diathesis means a special putting together of the fundamental elements means a special putting together or the tunuamontal comments of the body, and has no regard to particular organs or viscera, except in so far as a particular tissue predominates therein. The general law to which I refer is that with which you have been made acquainted already, and is the order of evolution of tissues in the embryo.(a) This order indicates the general or tissues in the embryo.(a) I ms order numeates are general or common pathological relations of fundamental tissues. Firstly, the germinal membrane appears as the common basis of all; then follows its division into the "mucous" and "scrous" layers. Out of the serous layer is evolved the whole voluntary motor out of the second layer is evented in o whole voluntary motor apparatus of bones, muscles, aponeuroses, ligaments, and serous tissues; so that, as they are all related to each other by common origin, they are related to each other nutritionally and diathetically, and have probably a common relation to a trophical system. The heart and vascular system have a like common evolutional origin out of the vascular layer of the embryo, which, however, is a conjoint product, and has the conjoint qualities of the mucous and serous layers. conjoint quanties of the mucous and serous layers. In dis-thetic anatomy the difference is shown by the distinction between gonty degenerations affecting the structure of the heart and arteries and of the synovial membranes of joints, and the rheumatic which involve the fibrous structures and

filtown perioardim, and sortic and mired valves.

The hereditary teadencies to districtic disease and degenerations as thus defined and fixed on an anatomical basis are more easily comprehended when we remember that tissuchanges in planta are hereditary, and that consequently it is the regulative principle, as vis nervosa, which, in animals endowed with a nervous system, must be operative on the sperm- and germ-cells. Now, a regulative energy, manifested as the "nieus formativas," is the special property of these minute portions of matter, and consequently it must be by a concentration of that energy, as via nervous on the genetic glands, that the psecular property is supplied. If, therefore, the that the psecular property is supplied. If, therefore, the experimentary of the decision in regard to these glands, the regardent control of the decision in the supplied of an experimentary of the control of the con

as in other tissues, the law of degeneration is retrocession to a lower type. The nature and results of that defect in brain-nutrition upon which hereditary insanity depends is a striking illustration of this law of hereditary disease and defect; it is the lower or animal appetites and instincts which erom out in hereditary insanity.

which crop ont in hereditary insanity.

Before we consider special tissue-changes as trophesies, let us clearly understand what we mean when we speak of loss of tone, of nervous debility, and of defective innervation. tone, or nervous deshipty, and of defective innervation. It is clear, from what I have said, the phrases may refer either to energy especially, in which case it would be to the sensory portion of the nervous system we should look. Now, when we are made conscious of this class of changes, pain, languor, nueses, and other like feelings are experienced. Hence, it seems useful to inquire with reference to two kinds of vis nervosa the one as being a molecular energy, necessary, like heat, to all healthy tissue-work, the other regulative of its production and application. This latter is therefore needed, not to the end that the tissue changes shall take place-for we have seen that they can and do go on independently of nerve-but that they shall take place in their proper or normal order. For example if a defect in a nerve or nerve-centre (nervous debility) is followed by the production of heat or of unic acid in the tissue it innervates, these changes occur because the tissue is refer from the regulative restraint exercised by the nervo or nerve-centre. Now, I think clinical facts enable us thus distinguish two kinds of trophic via nervosa with corresponding to the control of the control o ing anatomical seats, for we can differentiate a regulative from an executive kind just as we distinguish a sensory and a motor. Here, again, the law of evolution holps us to a clearer understanding. Just as the trophic vis nervosa is an evolution and differentiation of vital energy, so that by which we are conscious and act volitionally is an evolution and differentiation of the regulative element of trophic vis nervosa. It tastion on the regulative elements in respine the elevens. In an and development, was, and indeed still its termed the sainus, punchs, soul; and as manifested in mental life, as the anima, punchs, soul; and as manifested in mental life, as the anima, mind. This unity and continuity of vital phenomena is the great truth of Medicine, as it ought to be of philasophy. It do not know in the whole range of the practice of Medicine questions of greater importance than those comprised in the relations of nervous debility, in the scientific meaning of the term, to states of consciousness. It implies not only a true knowledge of the relations of pain to disorder and disease, whether in the merely corpored forms, as tenderness on pressure, hyperesthesis, neuralgia, and of diminiahed and abolished sensibility, as aniesthesia—for pain and aniesthesia meana practically changes in the vis nervosa—but of all mental sufferprecietally onanges in the vis nervoss—out of an inertial state-ing. Pain and suffering are so commonly associated with dis-order that the word disease is its synonym, and the ancient word pathology means primarily the science of suffering. Hence it is that the psychology of pain and suffering is so important a division of the practice of Medicine; for how can wo understand otherwise the commonest experience-e.g., the use of opium and other sedatives in inflammations and painful

What, then, does pain mean in general? When all the natrient and mechanical work of the body goes on according to the rule or norms of vital activity, the func-tions are said to be normal and regular, and the body healthy. Corresponding to this normal bodily condition is a mental condition, the feeling of health and of being strong and well, which, if contrasted with the mental state that corresponds to what is abnormal, is pleasurable. It has been named variously, but abnormal, is pleasurable. It has been usually perhaps the best term is connecthesis, or common sensibility; perhaps the best term is connecthesis, or common sensibility; pernaps the best term is connextness, or common sensability; morbid states of it are to be classed with the *athesis*. The feeling of ill-health generally, or malaise, or whatever name be given to that which accompanies what is abnormal, if there be a feeling at all, must have its seat in a like portion of the nerve-centres as the feeling of health, and this, in accordance with the principle formerly laid down as to the seat of all conscious changes, must be in the brain. Both states of con-sciousness correspond in regard to the body to that unity in regard to mind which the metaphysicians name the "ego ence these facts prove, in conjunction with many others, that there is a trophic corporeal centre, or series of centres, just as there is a mental centre or series of centres. This we shall be able to fix in a well-defined basilar region of the encephalon, able to fix in a west-center assists region of the encommon, which includes the modulus oblongata, cerebellum, and cerebral ganglia. Whatever may be said of local pain or uneasiness may be said of these general feelings. Hence we must re-member as an important fact in clinical observation that all pain, whether it be local or general, and however named, may

(a) See "Frinciples and Methods," 2nd edition, p. 189.
Vol. I. 1871. No. 1081.

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be illusive as to both and cause. It is so with the feelings say to health and unbeilti fron just as in neural picks, a preson may feel as if he had disease of an organ when it is healthy, and vice sead ;-or when strong and well may feel ill and week, and have delausions as to the nature and cause of his illusive illness and weakness. The term 'woll' means, as that suce, that there is no disease of organs, or tissues, or blood, as causes of sease as a nearcosis, termed hypothondrinais and pyrochondrinais that is best named day hybrior. Those occuric sufficient debitity, yet strong in nuscellar development, as incapacitated for labour as if all ye well as an in the contraction of the other indeed, a pleasurable feeling of muscular debitity, yet its till, when aminfosted in cases of phthisis, which has been termed the pyrochondrina mutrition, the patient thinks himself endowed with strength beyond estimate, A third class of oness are those of insantly with parcais, in which, from a particular kind of morbid-brain nutrition, the patient thinks himself endowed with strength beyond estimate, A third class of oness are those of insantly with parcais, in which, from a particular kind of morbid-brain nutrition, the patient thinks himself endowed with strength beyond estimate, A third class of oness are those of insantly with parcais, in which, from a particular kind of morbid-brain nutrition, the patient thinks himself endowed with strength beyond estimate, A third class of oness are those of insantly with parcais, in which, from a particular kind of morbid-brain nutrition, the patient thinks himself endowed with strength length of the prochame of the particular kind of one should be a supplication of the perind the perind the perind the perind

ing death. What is said of these general bodily feelings, as commonly altered in disease, applies equally to special bodily feelings and conditions. Exatation, perversion, abotilized on sensibility have their respective trophic conditions. The results of anesthesis of the pulmentry system, with evolution of motor via nervous, are seen in another form than the spec philosire, sical case. Even with large vomice the congle and expectantion will cease, the voice, as the patient raves deliriously, becomes load and strong, and the copyoreal strength narvellously daveloped—conditions all due to changes in that basilar trophic region I have hinted at. On the other hand, there are case of insantly in which the central trophic region is defective results are wholly different, or motor is nervous, and the results are wholly different, or motor is nervous, and the montils, sometimes ending in gaugenee of the lung; precisely for the same reason that sloughing occurs in certain kinds of the same recannic lates of the same recannic manning the continuous continuous

naley, as in lyphus and paraplegia.

The clinical rule deducible from these considerations is, that when we desire to assertian the causes and consequences of trophic nervous abelity, we inquire whether it is the regulative —t.e., sensory vis nervosa that is deficient—or the executive—i.e., sensory vis nervosa that is deficient—or the executive—i.e., motor. Excessive use (functional activity) forth determines this. It executive, is a using-thic state of the definition of the

tive, but chiefly the sensorial exhaustion of excessive pleasurable excitement. In like manner, the loss of blood, as in hemorrhages, or of albuminous nutrition, as in albuminuria, or the want of proper food, enfelosile both the regulative and the executive portions of the trophic system.

Induced in these and other ways, nerrous debility cause: a Induced in these and other ways, nerrous debility cause a distribution of the properties of the properties of the kind of tissue and the portion of the nerrous systeminwelved, and the dissues the pertion of the nerrous systeminwelved, and the dissues thereof. It will halp greatly to understand and classify and treat these if we know what is general as to mere and tissue, and what is purely local. For example, there is a whole class of gouty tissue diseases which are exemitally neurotic, and to be separated from those in which there are local changes consider tissues in their mel, however, into these, we must finat the mark out a clinical trophic anatomy as a guide to ctiology, diagnosis, and thereneuries.

ORIGINAL COMMUNICATIONS.

FOOD SOLVENTS. By Dr. ARCHER FARR.

Willie pepsine and pancreatine are being so much vanuted angents concerned in the process of digestion, I would fain point out that there are certain food solvents having an equal claim apon the attention of the Physician, and to which, I think, too slight importance has hitherto attached.

The gastric juice, as poured ont from the lining membrane of the stomach, besides certain saline matters, contains a free acid and an organic substance termed pepsine, both of which are always secreted by the healthy stomach during a meal, the presence of both being essentially necessary for the purposes of digestion; and while pepsine always constitutes the fer-mentive principle, the acid of the gastric fluid is known to vary-hydrochloric, phosphoric, lactic, and acetic acids, all having been discovered therein. The gastric juice also in itself having been discovered therein. The gastric juice also in itself is antiseptic, possessing the property of keeping many days without becoming putrid; and such antiseptic virtue would seem to depend greatly upon the acid portion, as shown by the following experiment:—If a few grains of pepsin be moistened with water, and submitted to a temperature of 100°, in a very short time it will ferment, emitting, at the same time, a strong, almost princas odour. But now, if a second quantity be simi-larly treated, to which has been previously added a few drops of hydrochloric, phosphoric, or acetic acid, no such smell will be perceived. And as to the solvent effect of certain acids upon the albuminoids: If two portions of meat be taken, A and Beach, for example, half an ounce in weight-and, after being coarsely bruised, to A is added sufficient water to cover it, acidulated with either of the acids-hydrochloric especiallyenumerated above, and to B a few grains of pepsine porei, with the same quantity of water, and both be digested at the temperature of the stomach for three or four hours, it will be found that upon A, although not reduced to such a homogeneous mass as B, nevertheless the solvent action of the acid will be manifest.

Eberle, in order to test the comparative digestive powers of hydrochloric acid and pepsine, suspended a solid piece of meat in a solution of each of these, and while he found that, in the course of a few honrs, the piece of ment in the pepsine solntion. had wholly disappeared, that in the acid solution still remained. But although this experiment proved numistakably that pep-sine constitutes the digestive principle of the gastric juice, it did not prove that the scid is not a meat solvent. Pepsine, if it deserve the name of food solvent, is more than a solvent, dissolving by virtue of its fermentive action. There is evidently solving by virtne of its fermentive action. There is evidently an attracting affinity existing between the ferment and the albuminoid, somewhat resembling chemical affinity, inasmuch as a new compound is the result. The acid, then, as a simple solvent, possessing no such a filmity, acting on such a complex texture as that presented by a piece of meat, and that in a state of rest, could not be expected more than partially to exert its solvent power under conditions so unfavourable to its But if we consider the changes our food undergoes previous to and on entering the stomach-viz., the state of division to which all alimentary substances are reduced by mastication—the powerful muscular action of the stomach to which the food is subjected, that organ closing upon its contents and promoting the absorption of some and the removal of other digested portions, it can readily be conceived that it is here the acid of the gastrie juice, if it have any special mission as a food solvent, would be found to exercise its prerogative.

This probably explains the modus operandi of lime-juice and other acids in curing or preventing scurvy; and be it observed that all those acids that have been discovered in the gastric juice are, without one single exception, antiscorbutic.

If, then, there be any truth in this—viz, that such acids do cure or prevent sourry by virtue of their direct action as food solvents—they deserve to be classed among the most valuable therapeutic agents at the command of the Physician; for it at once becomes obvious in how many forms of stomach disorder they may become effectual renectes. It is more than the stomach of the properties of

of the non-astringent acids. Dr. Headland, too, believes that in case of falling off of the natural acid secretion of this stomach that acids of the food may become supplemented. About five years ago I was the first, I believe, to promulgate the view that the prophylacted virtue of lime, juleo and other acids

in curing scurvy depended upon their direct action as food solvents, and since that time it occurred to me that an excellent artificial gastrie juice might be made by allowing the lime-juice to represent the acid portion. Accordingly, I had prepared for so represent the acid portion. Accordingly, I and prepared to run a mixture of lime-juice and pepsine, which I, and many of my Nedical friends, have since used with the best results in cases of dyspepsa. Lime-juice with either pepsine or parcreatine forms a very elogant preparation; is most convenient for prescribing, and may be made to keep almost any length of time without deteriorating.

83, Waterloo-road.

CASE OF OBSTRUCTION OF THE BOWELS. By J. LANCASHIRE, L.R.C.P., M.R.C.S., and L.S.A.

A. P. W., aged 18, was visited by me on July 24, 1867, when he was found suffering from extreme flatulence, great disten-sion of the whole abdominal regions, attended with considerable pain, much increased by the slightest pressure. There was no vomiting, but slight nausea. The feverish symptoms were severe; the pulse ranging from 120 to 130. I gave him very mild aperients, with the tinot camph. co., and ordered hot fomentations, etc., to the bowels. On the next day the bowels The symptoms were much the same as on were not relieved the previous day, except more feverishness, thirst, and increased restlessness. Still no vomiting; all the liquids taken were retained. The mixture was continued, and an active purgaretained. The mixture was continued, and an active purga-tive, consisting of ten grains of hydrar, chlor, and sx. grains of powdered julap, was given, which neither on this day nor the next had the desired effect. The same symptoms continued on the 20th and 27th. On the 27th a pill containing two grains of alone and five grains of caloned was administered, and on the 28th three springs of the property of the same property of the 28th three springs powders of alone some particles. As the out the desired action of the howels. During the 28th and out the desired action of the bowels. During the 28th and 29th the symptoms remained much the same. There was no vomiting; the distension of the bowels centinued, however, and the tympanitis was very great, attended with great tender-ness, especially in the right iliac region, and over which region there was duliness on percussion. The case now assumed such a serious aspect, that Dr. Wilkinson, of Manchester, saw it on the 30th; but before his arrival the bowels had been acted npon, and the symptoms were in consequence slightly mitigated. A large quantity of feeculent matter, tinged with mutgated. A large quantity of meetiens matter, tinges with blood, was passed without relieving the tympanitis and excessive tenderness of the abdomen. From this period the serious symptoms began very gradnally and allowly to subded; the bowels were regularly acted upon; the most troublesome symptoms during recovery being the distension of the abdomen, with tenderness, especially in the right line region. Complete recovery took place, and there remained no evidence of lisease on September 27.

During the interval between recovery and Monday, January 30, 1871, a period of three years and a half, I occusionally saw this patient, on account of slight attacks of colic, which passed this patient, on account of slight attacks of conic, which passed away without entailing much truble. On the above-named day I was called to visit him, when I found that the bowels had been freely ovacuated. The thirst was great, and attended with occasional romiting. There had been no rigors or shivering; the pulse was at 50; no trympanits, and not the slightost tenderness of the bowels. There was, however, one peculiar and well-marked sign on percussion-viz., tympanitic peculiar and weil-marked sign on percussion—viz., tympamics sound above the unbillious, and general dulness below. On enreful examination, there were no signs of strangulated hernia (although he suffered from rupture), nor could the existence of any tumonr be discovered. What appeared to be the colon could, however, be distinctly traced.

Effervescing medicines were given along with hydrocyanic acid and morphia, and counter-irritation used to the abdomen without any mitigation of the symptoms. The patient con-tinued much in the same state on the 31st, and also on February 1 and 2, except that the vomiting was more frequent, the fluids vomited being of a brownish-yellow colour, and in the afternoon of the 2nd having a decidedly faceal odour. On February 3 there was very little change in the state of the patient. There was a slight increase in the frequency of the pulse; the thirst was excessive; the nausea almost constant, and the vemiting of fluid freed matter very frequent. Pros-tration was quite ovident. During this time small doses of opinm were given; also brandy, beef-tea, ice, and cold water opinm were given; also brandy, beef-tea, ice, and cold water frequently, and in small quantities. The patient remained the same on the 4th and 6th, scoopt that the symptoms were more ofth, and in the evening to 134. There was still no abdominal tendernees, no pain on pressure, and no tympanitis. The patient became gradually, wores, and died about 3 c dock on the morning of the 6th, or on the eighth day of the attack. Dr. Roberts, of Manchester, gave an unfavourable opinion of the case

Post-mortem Appearances .- On section of the abdominal walls I found, about two inches below the umbilious, large and very ment had a circumference of four or five inches. On very careful examination of this attachment, I ascertained that a portion of the ileum, which must have united itself to the porportion of the deem, which must have surfeed tossit to the por-tion of fleum next in opposition during the former illness in 1867, had given way, and a small quantity of feed matter had ecaped into the peritoneal cavity. This adhesion was about five feet from the duodenam, and the lieum threughout the whole of this extent was distended to more than twice its whose of this extent was distended to more than twice its natural size, and was very much congested and inflamed, as was also the mesentery. The colon was hid from view by the ileum. On detaching the addesions from the abdominal walls, and examining the ruptured bowel, a small opening about the size of a goose-quill was found in the lower or cucal end of the ileum, and also another opening about the size of a sixpenny-piece in another portion of the ileum, and nearer to the oscum. This opening was irregular and jagged, and a small thread-like band was floating loose, one end being attached to the bowel.

The best illustration I can give of this state of the bowels is, to imagine a main road (alias the ilcum) dividing into two branches, one to the left and the other to the right; that to the left ultimately running again into the right branch, as the ileum did in this case. The whole of the fleum below this point was quite healthy, as were also the colou and the rectum. No faces were found in the ileum below the scat of the disease, neither were any contained in the colon. The intestines were, however, contracted, and smaller than natural, especially the colon, its sigmoid flexure, and the rectum. The ileum above the seat of the obstruction contained a tolerable quantity of liquid, similar to that vomited during life, but no solid fæces were found in any part of the bowels

The post-mortem examination of this case chiefly illustrates or proves what took place during the attack of illness in 1867.

The triangular attachment of the duodenal ileum to two

portions of the cacal ileum must have occurred at that time, and one or both artificial openings have been then formed. The adhesions were so firm, that it was quite impossible for them to have been formed during the last illness, for dissection into the abdominal walls was necessary in order to expose the

Again, the enormous distension of the ileum above the seat again, me enormous distension or no item acove the seat of obstruction must have commenced immediately after the attack in 1867, and this distension must have gradually pro-gressed until the final one in 1871. This distended state of the bowels was, no doubt, the vis medicatrix nature, which enabled the system to derive a very fair share of nutriment from the food taken into the system after the nutritive action of the lower ileum had been deprived partly of its due functions by the diseased part. There was no wasting of the system between 1867 and 1871, for during this time the young man was in very good health; was more robust than he had previously been, and a short time before his last attack, indeed

previously ocen, and a snort time octave has last attack, muccu up to the day before, was looking remarkably well.

The tympanitie and the dull sounds on percussion are easily explained by the post-mortem examination; the only point worthy of notice being that the distended or dilated ileum, and

not the colon, produced the former sound.

The question next arises, What was the cause of death? The immediate cause was, no doubt, rupture of the bowel, and I believe that the primary cause was inflammation of the ileum above the seat of obstruction.

This case very forcibly illustrates the power which nature beseeses of preserving, as far as is possible, the life of dividuals. No doubt death must have ensued at some early individuals. period, but the marvel is that, for three years and a half, this young man retained very fair health and vigour, with such an amount of serious obstruction to the nutritive functions of the

body.

NOTES ON THE YELLOW FEVER, AS OBSERVED AT HAVANA IN 1870.

By JOHN SULLIVAN, M.R.C.P. Lond, etc., etc.

YELLOW FEVER has within the last few months been conveyed from the ports of Cuba to Europe, and has invaded certain ports on the coast of Spain which never before suffered from its ravages. It is not impossible but that the shores of Great Britain may some day be visited by yellow fever-a disease hitherto nnknown to us; and if it should, some clear and practical knowledge of its nature cannot prove otherwise than useful and highly important. From my connexion with one of the principal Hospitals of Havana, I have had extensive opportunities of observing the disease in its many forms and degrees of intensity. Influenced solely from a sense of duty. I have endeavoured to sum up the results of my own experience and that of other Physicians of still greater experience. and hope they may prove useful in order to form clear and practical views of the nature and treatment of so terrible a scourge to humanity.

Yellow fever usually takes one of the following forms :-Yellow fever usually takes one of the following forms:—

1. Mild and incomplete; 2. Complete, dangerous, and of long duration; 3. Very dangerous, and of short duration; 4. Yellow fever, with vomiting as the predominant symptom; 5. With hethorrhages; 6. Where cerebral symptoms predominate.

Example of First Form.—A man is seized suddenly with intense headache; eyes slightly injected; skin hot; pulse 92; intense pain over orbits and down the loins; tendency to stuper; tongue white in middle, red at tip and edges; thirst; nausen; slight pain over epigastrium. During the second, third, fourth, fifth, and sixth days the agitation, insomnia, and severity of other symptoms increased and diminished until, on the seventh. all the symptoms improved, and convalescence took place. This is the congestive form. The fever did not pass through its two stages, so that the system did not suffer from the stupefying action of an altered state of blood; in a word, the yellow fever was not complete.

Example of Second Form .- A man walked during four hours, exposed to the sun and rain; he was seized with cold sweats and flushes, pains in the head and loins.

Second day.—Frontal headache, eyes injected, pain in loins, countenance animated, skin hot, tongue characteristic, no

Third day.—No improvement; nausea. Fourth day.—Insemnia, jactation; no pain; pulse small, quick : nausca.

Fifth day .- No vomiting ; conjunctive jaundiced ; singultus. Seventh day.—Tongue all red; bnecal hæmorrhage. Eighth day.—Jaundice general; insomnia, jactation, nausea,

hiccough.

Ninth day.—Black vomit, no sleep, pulse feeble, subsultus

Ninth day.—Hinck romat, no steep, pulse teems, substitute tendinum, tongue red, cona, cold sweats, death.

Autopute.—Central vossels gorged with blood; rentricles contain a little bloody serum; heart pale and softened, with a little black blood; lungs gorged with black blood; stomach distended with a coffee-coloured liquid; intestines likewise,

also with green bile; liver larger than untural, of a deep yellow.

Here the fover, after exposure to heat, rain, and fatigue,
was ushered in by all the characteristics of the first stage. The gastrie symptoms are limited to the thirst, nausea, and redness of tongue until the fifth day, when icterus and singultus take place. On the sixth day, tongue redder, attempts at vomiting; on the seventh, extreme agitation, eyes bloodshot, nauses, and hiccough. On the eighth day, black vomit, coma, convulsive movements, pulse small, cold sweats, death. This is the yellow fever complete and slow.

Example of Third Form .- Patient feels at night pains in head and loins, chills, and intense heat. Next day, eyes injected and shining; great thirst; tongue white; great jactitation; respiration anxious; voice and movements tremulous (a very

dangerous symptom).

dangerous symptom).

Second day.—Pain left, but insomnia; great agitation; ieterus; pulso small, quick; tongue white.

Third day.—Restless; skin cool; great prostration; tongue

dry, dark; black vomit; suppression of urine; petechie on dif-ferent parts; death. Here the second stage quickly made its appearance : black vomit on second day.

Example of Fourth Form .- From the beginning, he complains of severe pain in epigastrium; excessive thirst; nause lowed by bilious vomiting. Icterus appears on the fourth day; fifth, great prostration; sixth, death.

Here gastrie symptoms appeared from the first, increasing daily. The lesious in stomach found in post-mortem were not sufficient to account for the alarming symptoms. It is remarkable that the patient never during life vomited black matter, but, after the vomiting had ceased for twenty-four hours, hæmorrhage took place, and black vomit was found in the

stomacn. Example of Fifth Form.—An athletic young man, subject to severe epistaxis, is attacked with cold shivering, followed by heats and sweating. He had been exposed, the day before to severe sun-heats. Severe headache; no lumbar pains, but pain in the lower extremities; nausea and vomiting, and extreme thirst.

First day.—Eyes injected; speech tremulous, movements slight; skin hot; and tongue white at centre, red at edges.
Second day.—Insomnia; pulse not so full or quick; vomiting

green bile; pain less severe.
Third day.—Pains abated, but insomnia and jactitation con-

tinne; nervous tremblings persistent.

Fourth day.—Ieterus; cessation of vomiting.

Fifth day.—Fever slightly increased; severe epistaxis, which cannot be controlled; followed on sixth day by intestinal hemorrhage; death at 9 p.m.

Here the congestive symptoms were very prominent at the ginning. There was no black vomit, but the abundant beginning. hemorrhage from nose and intestines prevented that from the stomach

Example of Sixth Form .- A man was seized with headache; pains over the loins and legs; nause

First day.-The usual characteristic symptoms; nervous agitation.

Second day .- Stupor ; icterus ; severe pains continue ; tongue as usual; thirst and nausea.
Third day,—Jactitation; insomnia; delirium; skin bot;

ictrus; pulse weak; comiting of yellow bile; pain over epigastrium: then all pains disappear.

Fourth day.—Symptoms continue.

Fifth day.—Delirium becomes furious; great prostration;

black vomit ; death.

Here cerebral symptoms were evident from the beginning-also nervous trembling. On second day, come set in; on third, icterus and vomiting of bile; on fourth, delirium, which soon becomes furious; great prostration; black vomit; death on The lesion found in the brain fully accounts for the fifth day.

symptoms during life. Let us consider vellow fever in three points of view :-

1. As to its degree of severity in the attack

2. In relation to its different phases, which present themselves during its long epidemic periods.

3. According as one or more particular symptoms predominate.

First Degree .- In its milder form, it presents itself in cold shivers occasionally, with or without vomiting; partial and suborbital cephalgia, or pain in the cycballs; intense lumbar pains, and in the lower extremities feeling of lassitude; countenance excited, red; and eyes shining, moist, slightly injected; skin hot and dry; pulse hard, up to 100; agitation slight, but visible; insomnia not complete; rather a tendency to stupor; tongue white, red at tip and edges; gums—upper part whitish, often leaden-bluish below; rarely vomiting; usually costivenes; symptoms improve, usually on the sixth day, by a slight epis-

taxis or sweating.

Second Degree.—In a severe form yellow fever presents in its Second Eggree.—In a severy form years present in the second stage complete and confirmed icterus. Symptoms as above, but more intense; cold chills and sweating are often so pronounced as to lead to the suspicion of paludal fever. When there is a doubt, the injected state of the eyes, anxiety in respiration, will enable us to diagnose. After two or three days, the first period, or that of febrile activity, is followed by a few hours of repose; then comes the second stage, when the pulse falls; skin cools, and is slightly jaundiced, also conjunctive; nansea, vomiting, jactitation, insomuia. At the end of three or four days, symptoms may improve, and convalescence appear; but should death threaten, then the agitation and prostration go on increasing. Respiration slow, with singultus; pulse quicker and weak; tongue becomes red and dry; thirst extreme; black vomit (black stools), with pain and burning along esophagus. If hiemorrhage predominate, it will hasten the end: if eerebral symptoms predominate, come and delirium will supervene : suspension of urine often before death. Two or three days afterwards, pulmonary asphyxia takes place, and death, with or without convulsions. The disease may last

from five, seven, or nine days; or,

Third Degree.—It may be ushered in with extreme severity, terribly rapid from the onset; chills and heat succeed; tongue terrouy rapid from the onset; enims and near succeed; tongue red and pointed; vomiting from the beginning; pulse hard, wiry, and trembling, up to 120; anxious and frightened look; cyes injected; speech trembling; great agitation; respiration anxious and frequent; insomnia complete; costiveness; urine scarce; soon, from one to two days, icterus appears; black vomit; hemorrhage from the various outlets; delirium, coma, and death, usually about third day, often preceded by hemor-rhage from nose or rectum. Should life be spared for two or three days, the sight is hideous and repulsive.

Thus, there are three degrees of severity: in the one case it consists of a febrile activity of an infectious character, deriving its persistence and malignity from the nature of its corring its persistence and manginty from the nature of its cause; in the third they are the result of a profound disturbance, and the efforts of a feeble and powerless reaction, attacked by all the disorders which can be produced by the victorious action of a violent poison.

PARTICULAR SYMPTOMS.

The attack is usually quick and decisive, the patient having been in perfect health, although in rare cases he may have com-plained three or four days previously; generally comes on at

Fever .- In slight cases the shivering is sometimes absent, sometimes severe, accompanied with vomiting; should the shivering concentrate itself, and reappear during the febrile stage, the sign is a bad one.

Skin .- Hotter, more dry, and rough in severe cases ; it cools

down generally in the second stage.

Sixeating is not critical, as in intermittent, and may be distinguished from that of intermittent by its not being followed by any diminution of heat, a most important fact in making a diagnosis. Sweats in yellow fever are always treacherous; in the second period they are a fatal sign.

The second period they are a ratio sign.

Police generally proportioned to the severity of the fever; if
it exceed 106, if it be tremulous and irregular from the first,
especially if the patient be greatly agitated, with voice
trembling, the sign is fatal. Still, the pulse is not always to
be depended on; its normal state, which sometimes cours between the first and second stages, may sometimes deceive an

between the first and second sages, may sometime acceptance inexperienced Practitions.

When hemorrhagic symptoms appear from the first, the febrile stage may pass naperceived. The fever opens the morbid scene in yellow fever—one continued paroxysm, nover to reappear, unlike the fever in any other disease

Countenance : Very characteristic, reddish, bloated; eyes in-Countenance: Y cry onarracteristic, results, unswest, eyes. microted. The sallow countenance becomes pale, yet animated; but, in the second stage, in all cases icterus succeeds. If the eye becomes yallow from the beginning, the sign is a bad one. Pains: Cephalaigri, tumbar pains, and those of the lower cx-tremities. Those in the frontal and orbicular regions usually

tremities. Those in the frontal and orbicular regions usually appear and disappear with the fever. When, from the extreme pain in the legs, the patient is obliged to toss them about in all directions, kick away the bedelothes, and clap the soles of his feet against the cold wall or bedstead, the sign is a bad one. I have never known such a case recover.

Agitation, Insomnia: Always present in severe cases, proportioned to the severity of the case, and usually coincident with tremors and anxious breathing. In fatal cases, the patient tosses about in his bed, and uncovers himself constantly until death; yet there are cases where stupor and absence of all agi-

death; yet there are cases ware stuper and noscace of an age; tation are formidable symptoms.

Respiration: Greatly disturbed in sovere cases. At first, anxious and frequent, and when, in the second stage, it becomes slow and sighing, is almost always a sign of death—an index of the profound effect produced by the poison on the circula-

tion and nervous system.

Tongue: Sometimes slightly altered; but more frequently. Thouse: Sometimes angony attered; our more trequenty white in the middle, red at tip and edges, at first, and becomes redder and more pointed as the disease advances. It is a bad, sign should the tongue be red, dry, and trenshling from the first. The upper guns are swollen, whitish in the upper, and rose-coloured in the lower part. The swelling of the guns is often a sign of hemorrhaye in the second etage.

Thirst: Mostly excessive in severe cases; in fatal cases, often continues, even in the second stage.

often continues, even in the second stage.

Founting.—A very frequent and characteristic symptom. If it declares itself at first it may not be of great import, but where it begins on the second or third day it is of great import. Often till the end of the first period there is nausea only, but at the beginning of second stage vomiting sets in. . The first con-

sists of ingesta, and sometimes of green or yellow bile. When blackish spots appear in the midst of a clear liquid it most blackish spots appear in the midst of a clear inquid it most frequently happens that black vomit follows. A brown or grey fluid at first, with streaks of blood, soon becomes a homogeneous fluid like coffee-grounds or black ink; or it is composed of a liquid like an infusion of green tea, with a black powder or flakes deposited. As it is the result of hemorrhage, death may be caused by its excess alone; but, should it con-tain some black strise, death may be safely expected. This black matter, when not vomited may sometimes pass off by the stools—a symptom equally fatal. Sometimes vomiting ceases twenty-four hours before death, when the black matter is found post-mortem in the ventricles. Vomiting may take is found post-mortem in the ventrices. Vomiting may take place without pain spontaneously, or cause great anxiety, painful spasm, or a burning heat along the oscophagus. We must be careful not to mistake deep-coloured bile for black vomit. How detect the difference? Linen steeped in black vomit gives a bistre très-transhée; in bile, a green or deep yellow.
Without this precaution, we may mistake the deep green matter
of bilious and homorrhagie fevers for black vomit. This is or unious and hemorrhagie towers for black vonit. This is acid. Its liquid part does not contain albumen; it sold part, some signs of fibrin. The microscope recognises globules like those of the blood, but misshapen. Black vanit is, therefore, altered blood; probably by hydrochoric acid. 87604, when billions, are not so serious as when they turn

black or bloody. The matter by stools is, inversely, as that by

vomiting.

Hemorrhages.—Hemorrhage is often considered as the essen-tial character of pellow fever, as a symptom of the decomposi-tion of the blood, and yet no hemorrhage may appear either during life or after death. Yet the alteration which destroy the cohesion of the blood globules and augments the liquidity of the liquor sanguinis is always a predipsoing cause of hemorrhage, which depends probably upon the degree of hemorrhage, which always a predipsoing cause of the destroy of the depends of the degree of the same. The agree of the monagene of the bengarbary, the Hemorrhages .- Hemorrhage is often considered as the essenfirst stage. The earlier the appearance of hemorrhage, the more formidable the case; hence, if it appears on the first day, the danger is great; it usually appears on the fifth or sixth day; may be present in a very mild case, and absent in a very grave one; its quantity may determine death; may appear by any of the natural outlets; frequently by the bites of leeches; most dangerous in the form of epistaxis; it may direct itself even into the collular tissue (or mascular). In a word, hiemorrhage means dyscrasia of the blood. It is not absolutely fatal unless in the form of black matter; yet it may prove fatal by an excess, whether from the nose, stomach, or by stools.

Alteration of the Blood in Yellow Fever .- In first period the blood Alteration of the Bisses in Issuer Freez.—In first period the choice is consistent and red; in second, the harmorrhages indicate the changes in the blood; livid patches are evident on the skin; leech-bites become livid and ecchymosed. The blood is black, and does not form a clot; ures has been found in the blood where suppression of urine exists; bile also is found in such

Icterus generally appears on the decline of the fever. When it makes its appearance sooner, coinciding with fever and vomiting, about the second day, the sign is a mortal one. It may be mild in fatal, and intense in mild cases. Jaundice is may be mid in fatal, and intense in mid cases. Jaundies is the result of the principle of the bile in the blood; in cool seasons, it is frequently absent. It is, in many cases of yellow fever, replaced by a starw-coloured state of the kin—the effect, probably, of a defibrination of the blood, as in chlorosis and aniemia; but the general opinion is that the different variations of yellow depend upon the variable intensity of the biliary suffusion

In fatal cases, jaundice is as certain after death as albuminuria is certain during life.

l'iolet-coloured marks or stains appear in certain parts, instead of vellow stains, owing to extravasation of blood contained in the cutaneous capillaries.

Cerebral Symptoms.—When the vital powers appear seriously

affected, the nerve-centres exhibit their sympathy by a kind of tremor, or general trembling, as evidenced by the pulse, the speech, and subsultus tendinum, coincident with agitation and anxious respiration. They do not appear as the effect of febrile excitement, as they appear at the close of the first or at the exettement, as they appear at the close of the first of at the end of the second stage. They may first declare themselves by a little stupor and disturbance of ideas, and may appear in form of delirium, coma, or convulsions, continued or intermittent crise, great sensibility of the skin, etc., etc.

Urine: Its suppression observed a little before death; if earlier, the case is nearly always fatal. In the second period, the urine becomes brown or acid. Nitric acid produces a greenish blue when ictorus appears, and gives a precipitate, grey-whitish, of albumen. In the urine of marsh fever, typhus, etc., there is found no albumen. There is in yellow fever a true suppression of urinary secretion.

Hierough frequently in the second period; often a symptom of approaching death.

Y-line freer is an associatly continued and non-marshy fever. It has two periods only, and sometimes only one. Between the first and second periods, there is often a transitory modification of symptoms, which produces a deceiving sense of security, often in the Medical attendant, often in the patient. He asks for food, often insists on getting up and walking about; this feeling is often the precursor of death. The discase, in a mild form, may least three or four days; a more serious fulministing case may carry off the patient in less than two days. That which goes through its periods may last even eight or nine days. Recovery from yellow fever will often revive old complaints, which of themselves may prove fatal.

Diagnosis from Marsh Feere, etc., or Bilima Feere.—Yellow feere prevails in some localities, while marsh feere prevails in many other climates besides those peculiar to yellow feere. Tellow feere respect those who have been once attacked, while marsh feere may be repeated frequently in the same statested, while marsh feere may be repeated frequently in the same statested, while marsh feere may be repeated frequently in the same patient. Yellow feere, which is to be found only apon the borders of the sea. Localities where intermittent feere is never found, may be the most infected by yellow feere. Thus, thir geographical oral sare, on the other hand, ossential characters of the marsh of the sea o

Nature of yellow fever is a pestilential one, having two distinct phases—the one of reaction against the infectious poison, constituting sometimes the entire malady, and very like to an infectious fever; the other, of depression or adynamic ataxia, counterfeiting nervous hemorrhagic putrid fevers.

Treatment—Kreping in view the nature of the disease, how quickly reaction against the effect of a poison is followed by a sometimes fatal depression, our treatment ought to be such as, while adapted for the elimination of the poison, may not depress the system; hence, the old plan of bleeding cannot be defended. When pains are intense in the first period, we have a support of the property of the defended. When pains are intense in the first period, camployed, but not over the stomach; mustard positions or employed, but not over the stomach; mustard positions or employed, but not over the stomach; mustard positions or employed, but not over the stomach; gradient of the stomach appear overloaded, I begin frequently by giving an emetic of ipecacunha; if not, I give five gradient of blue plul or grey powder, to be followed a few hours afterwards by a are gently mored. I have recommended a mixture containing the saits of potash and soda, including the chlorate of potash. Dr. Ashenbrener, a very practical, scientific Physician in Havana, recommends the same plan. I have practiced the above give in Potto Rilo with excellent results: but we must be above give in Potto Rilo with excellent results: but we must which changes so often, the control of the property of the province of the property of the province of the property of the province of the

favour the formation of black vomit. Respecting the use of quinine, when properly combined it appears to have a safer effect. We used to administer, in the Casa de Salud de Garcini, an excellent formula-a pill every three hours, containing one grain of quinine, one of myrrh, and one of camphor; it relieved anxiety, restlessness, and was nseful where hæmorrhage was to be dreaded. When the second period is about to enter, emetics are positively dangerous; gentle pur-gatives, as castor oil, with syrup and lemon-juice, are best. Injections are sometimes preferable; they act as derivatives in sanguineous congestion, calm nervous excitement, and favour the elimination of the poison. Valuable adjuvants are sinapisms to lower extremities, hot foot-baths in the horizontal position, cold compresses to head; others of tepid water to epigastrium, and frictions over the loins, of lemon-juice or hot vinegar, afford great relief; a tepid lemon-bath is very useful for nervous subjects, in which the patient may be plunged ten or twelve minutes thrice a day, and cold applied to the head. Per-haps the expectant treatment is the best. The indicious application of cupping, diaphoretics, external revulsions, an ipecacuanha emetic at the outset, when the stomach is embarrassed, light ourgatives, injections, tepid bath with cold affusions - in a word, all means which favour the elimination of the poison and moderate its congestive action over certain organs, without increasing the functional disturbances already so alarming and threatening, such are the agencies which succeed best. I am informed that an eminent Physician in Havana, whose experience of this discase is considerable, uses aconite largely in the first stage of yellow fever. Aconite acts powerfully as a sedative to the circulation, and is useful in controlling inflammation and subduing the accompanying fever; it may be useful in the sthenic forms of disease, as in pneumonia plcuritis, tonsillitis, etc. But the fever of yellow fever is not of a sthenic character like that in rever on yearow rever is not or a stheme character like that in inflammatory fever, it is the effort of reaction against an infectious poison. Hence the inefficacy of aconite, as I am informed by those who have tried it, as it has no effect in subduing the cause of yellow fever, but rather increases its depressing tendency. The best remedies are such as are calculated to eliminate the poison without depressing the vital powers. The country people in Cuba employ with excellent effect, at the com-mencement of an attack of yellow fever, the following:—To half mencement of an attack of yellow fever, the following:—To balf a pint of salad oil is added on tesspoonful of common sait and half an ounce of line-juice. The dose to be repeated if necessary. I never yet could find a native who could explain to me the retisents of this not agreeable compound. Taught by a feeling of instinct and self-prevervation, and from long experience, of instinct and self-prevervation, and from long experience, instainet, is said to pick out and select in the field the herb. best united to bis allment. Yet the combination may be termed a suited to his ailment. Yet the combination may be termed a scientific one. The large quantity of sweet oil acts as an emol lient application to the mucous membrane of the stomach, to which the poison of yellow fever is most frequently directed. It acts as an aperient and easy purgative; or, should the stomach be foul or overloaded, the mixture will assuredly sconact no total or iterioaces, the minimum with neutral pur-ties of the property of the source of the source with some remaining part of the oil. The common salt is autherptic, and lime-juice must prove valuable in all diseases in which a change in the blood is concerned, as in seurry, yellow fever, etc. This remedy has been adopted for some time in the Quinta del Rey, one of the principal Hospitals of Hayana. I should not hesitate to recommend it in whatever part of the world yellow fever should make its appearance. In the second period we must attack the predominant symptom.

Vomiting may be nervous or sympathetic, or it is essential or
hemorrhagic. What is vomited at first is bile or greyish iliquid. Here apply sinapisms or blistering; icc-water in small quantity; champagne wine is excellent. If there be spasse, give morphia; if there be black vomit, give ice, lemonade, give morpina; it tuere be black voint, give ice, lemonate, with the mineral acide (sepocially the muriatic), astringents, ergotin. Quinine does harm in black voint. If cerebral symptoms predominate, apply lotions to forehead, small blister between the shoulders, injections; opiates, if nervous symptoms predominate. Hemorrhages: As they are the effect of a dysersais of the blood in general—not from a local cause, as in ultilist, set, come par assist winderstand best officials: it is dyserasia of the blood in general—not from a local cause, as in plathist, etc.—we can easily understand how difficult it is to avoid them. We may try the mineral acids, the nitro-muriatie with serpentaria; spirit of turpentine (which is seed largely, I am told in New Orleans); perchloride of iron; ico inwardly; seade cornutum. Against supprossion of urins: Terebinthine frictions over the loin, nitre and campborated injections, etc., etc. In troubled respiration, strybnia may

rouse the paralysed energy of the nervus vagus.

Such is an outline of the treatment best adapted to yellow

fever in its two stages, with its varied complications and particular symptoms.

Our remedies may be innumerable, but all will be useless without the knowledge of their proper application, which knowledge can only be acquired by observation, patience, and Havana.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

UNIVERSITY COLLEGE.

CARIES OF CARPUS RESULTING FROM WHITLOW

OF THUMB, FOLLOWED BY ABSCESS IN THE SHEATHS OF THE FLEXOR TENDONS—AMPUTA-TION OF FOREARM-DEATH.

(Under the care of Mr. ERICHSEN.)

JANS S. americal voman, aged 50, was admitted into University College Upplial, on January 14, 1871, with the following history of the property whole hand awened and occame "quite onex. One now rook do bed, and under Surgical advice poulticed her hand, but the little finger suffered so severely that it was necessary to amputate it through the middle phalanz. Two incisions were made at the same time, one through the ball of the thumb, and the other just above the wrist on the outer side. These measures had been taken a month ago; there had been profuse suppuration since, and the patient had kept her bed constantly. On admission, it was noted that the woman was old-looking, very feeble, and with an anxious expression of countenance. There tectic, and with an anxious expression or councenance. Ancre was general inflammatory swelling and odema of the whole hand, extending a little above the wrist. Pus welled from a senal opening the size of a pee in the dorsam of the hand; senal opening the size of a pee in the dorsam of the hand; and the size of a pee in the dorsam of the hand; and the size of the s another when the arm was rotated.

Mr. Erichsen having decided that the only course to adopt was amputation of the hand, this was performed on January 18, the forearm being divided a few inches above the wrist, with equal antero-posterior flaps. The vessels were tied, and the flaps brought together with allver sutures. Free support, with

10 oz. of wine, was ordered.

A careful examination of the amputated hand was made by Mr. Marcus Beck, the Surgical Registrar, who made the fol-lowing note of its condition:—"The whole of the articulations of the carpal bones with each other, with the radius, and with the metacarpal bones, were found to be affected. The cartilage was destroyed in almost all; a little was left on the end of the radius. The synovial sheaths of the thumb and little finger were found to be the seat of suppuration, as well as the general synovial membrane of the flexor tendons. The disease seems to have commenced in the thumb, and spread by means of the synovial commenced in the thumb, and spread by means of the synorial sheath of its tendon to the general synorial membrane of the wrist, in which abscess must have formed, at last opening the joints of the carpas. By the synorial sheath of the little finger flavor tendon, the disease spread into that finger, necessitating amputation. The other three fingers escaped, as their sheaths do not communicate with the general sheath."

The nation: arrestanced owner while from the operation and

The patient experienced great relief from the operation, and at first seemed likely to do well, the flaps uniting nicely; but a fortaight later she began to lose strength, sloughing of the partly-healed wound set in, a severe bronchitis further exhausted

er, and, in spite of free stimulation, she sank on February 5. At the autopsy, the cause of death was found to be extensive bronchitis and emphysema, other lesions being a very fatty heart, and suppuration extending up from the stump into the elbow-joint. The flaps, excepting in one place, had united, but the union was very soft.

LYMPHADENOMATOUS TUMOUR OF AXILLA-REMOVAL-RECOVERY. (Under the care of Mr. ERICHSEN.)

Jane D., a married woman, aged 30, was admitted into

University College Hospital on October 3, 1879, under Mr. Erichsen's care, with a large tumour in the axilla.

She was born at Doddington, in the fens of Cambridgeshire. she began to complain of lumps around the neck and under tha chin, for which she was ordered cod-liver oil and iron. The chin, for which she was ordered cod-niver oil and iron. and lumps never suppurated, but became smaller when the swelling formed in the axilla two years ago. She had always been weak and thin, and from the ago of 15 to 20 suffered from a servere cough, with occasional blood-spitting. The cough was so severe that at times, during a paroxysm of coughing, blood would flow from her nose and "drop like tears from her eyes." would now from her nose and a crop like years from her cyes. There was no history of symptoms of syphilis. Menstruation had always been regular until marriage. Had had four children, and no miscarriages. The tumour in the axilla, in spite of various medicaments, steadily increased in size. On admission the woman was observed to be thin and delicate-

on admission in woman was observed to be thin and deducate-looking, but not markedly pale. The glands around the neck and under the chin were distinctly enlarged, as were also those behind the sterno-mastoid, and a hard lobulated tumour, about the size of a man's fist, projected from the centre of the axilla, the skin covering it being perfectly free, and the tumour being itself freely movable in the axilla.

On October 6, Mr. Erichsen, deeming the tumour to be of a

glandular nature, caused chloroform to be administered, and then, making an incision, about three inches in length, over the centre of the tumour, with the aid of a few light touches with the knife enucleated it from its bed. No ligatures were The model. A bit of list was placed in the wound, which was covered by another bit soaked in solution of carbolic acid, and the arm bound across the chest. The wound headed steadily by granulation, and three weeks later the woman left the Hospital well.

A microscopic examination of the tumour was made by Mr. Beck, who made the following report :-- "Under the micro-Beck, who made the following report:—"Under the micro-scope, be tumour presented a perfect specimen of tissue, resembling that of lymphatic glands—the adenoid tissue of IIIs. A thin section showed at first nothing but masses of small round cells, with single nuclei, and some red blood corpusales. But no brushing away these cells with a camel-shair pencil, a delicate reticulated stroms was found, having small knots at the places where the meshes intersected, and in some of these was a nucleus. In some parts the fibres forming the stroma seemed to run almost parallel to each other, with occasional intersections

This case is interesting as affording an example of a disease of which many specimens have been brought before the notice of the Profession in England during the past year or two. Mr. Beck's report of the microscopic structure shows it to be of the nature of those lymphomatous tumours which seem to occupy nature of those lymphomatous tumours when seem to occupy a position between hypertrophies and genuine neoplasms. These growths attain at length so huge a size as to place them fairly in the category of tumours, although their histological elements point conclusively to their origin as mere hypertrophies of lymphatic glands.

ST. MARY'S HOSPITAL.

CASE OF MODERATE BRONCHIAL CATARRH-EXTREME DYSPNEA-ALBUMINURIA-GOUT-GREAT IMPROVEMENT. (Under the care of Dr. HANDFIELD JONES.)

R. Q., aged 48, wood turner, admitted November 22, 1870. R. Q., aged 48, wood turner, admitted november zz, 1071. This man was brought in by the police in a quast-insensible state, having fallen in the street. When admitted he was agening for breath, with noisy inspiration. His temperature was 99°; pulse, 104; respiration, 28. Emetics were ad-ministered, first of piecacamaha, and then of ant. pot. tart., which did not bring up any phlegm, but which seemed to have relieved him much; he was also ordered to inhale steam, "as a good deal of the difficulty of breathing was in the larynx."

I did not see him till next day. I then learned that he had
been strong and healthy until three weeks ago, and that he was then attacked with shortness of breath and cough. He was then attacked with shortness of breath and cough. He had no idea how his illness came on; he was not aware that he had got chilled. He felt no pain in the side, or any part of breath getting had been as the side, or any part of breath getting shorter, and his cough worse, he was compelled to give up work. For fear of losing his place, he soon went to work again, faneying himself a little better; but after two or three days, having on the last had a hard day's work, he was taken in the way described. He worked daving the last

March 18, 1871 ..

day with great difficulty, and at last had to get a boy to turn the lathe for him. It was dyspaces which prostrated him at last; he was not insensible at any time.

. 23rd.—This morning he is much better, breathing much easier; he lies down well. Pulse regular and quiet. Heart's sounds normal; impulse felt in fifth left space. Tolerably good resonance in both backs, except at the very bases. Air enters pretty freely in deep breathing, producing a great deal of-medium-sized half-moist rile. The lower ribs expand fully

enters pretty freely in deep breathing, producing a great deal of sendlum-sized half-moint risk. The lower risk expand fully in deep inspiration. More play of upper risk than in usual in its taking art; whether of expert and tr. salles ways, and link, and the salles ways of the sa

after; very little expectoration; a good deal of small crepitation in the right lower back, scarce any in left, or in other parts of lungs. He lies down and sleeps well, but caunot lie ou right side.

17th.—Feels decidedly better; less sediment in urine, sp. gr.

1012; it is still notably albuminous.

28th .- Urine quite free from sediment, of light colour: sp. gr. 1010; hazes from albumen when nitric acid is added. His breath now feels all right; but since yesterday he has got inflammation of the left great toe.

30th.—Inflammation of toe is much less; nothing has been

done for it. First sound of heart prolonged, and quite mur-murish at apex; natural at base and at xiphoid. Second sound natural at base and apex. Pulse 90 lying down, of fair force; after a quick turn up and down the ward, it was 106; he says arter a quick turn up and down the ward, it was 105; he says this exercise did not put him out of breath nearly so much as that on the 12th. Moist râles heard in right back and front. Lying on the right side sets him coughing in five minutes. Urine of 28th, after being filtered, and treated with HCl, deposits in two days a tolerably good amount of uric acid.

January 4, 1871.—Voice lost from catarrh; lungs nearly free.

The urine continued slightly albuminous on the 7th and 11th.

He left the Hospital about the 15th.

On February 11 he came to show himself; was troubled by cough, but could work well-in fact, complained of the scanti-

ness of work.

Remarks .- This case was not at first by any means a clear one ; nor am I now quite sure that I can give you a clear and coherent view of the several phenomena we observed. But let us try. It was certain that he had at first catarrh of his air-passages, and great debility: these, at least, were the prominent symp-toms the day after his admission, and for some time after—in fact, he was seized when he went out on pass, eighteen days after he came in, much in the same way as he had been origi-The existence of bronchial estarrh was established by the presence of râles in the air-tubes, though there was little cough or expectoration. It is, however, quite certain, I think, that the extreme dyspnosa which he suffered when taken ill that the extreme dyspinous wincin he suirered when loaven in was not dependent on obstruction of the tubes by accumulated muous. The dyspinous was of comparatively short duration; no philegin was brought up by the emetics, and much of the difficulty of breathing appeared to be laryngeal. Another very important feature of his condition was the albumium: Though no casts were found in the nrine, and though the sediment deposited appeared to be solely ordinary mneus, and not renat posited appeared to be solely ordinary micus, and not renat epithelium, I can scarcely doubt that the albumen proceeded from the vessels of the kidney. Under treatment the amount of albumen diminished considerably, but it was always present, and betokened, I cannot but think, especially as the specific gravity was low, the existence of renal degeneration. iniou is further confirmed by the occurrence of a mild attack opinion is further contirmed my the occurrence of gout—a disorder which is known to coincide often with morbus of gout—and the kidney. ghtii, in the form which induces contraction of the kidney. It is true that the urine appeared to contain a tolerable amount of urio acid just about the time of the gouty attack; but unless on urn near just about the initio it no gotty attack; but unless an accurate quantitative analysis had been made, this counter-evidence could not be insisted on. The heart's action was good and steady, and was not inordinately accelerated by exercise;

so that I cannot regard failure of circulation as somermod in producing the dyspinos. The factors of this disorder ware probably two—vix., spasmodic contraction of the ploisis, and elemented innervation of the pneumogastric; both, I believe occasioned by the impure blood and the influencial protections. It is may be more correct to say that deranged innervation of the vagi was the sole cause, the glottic spasm being regarded as the expression of irritation of their recurrent branches. Graves speaks of severe dyspace occurring in influenza ont of all proportion to the amount of bronchial influencetion, and fully recognises its dependence on the disorder induced by the miasm in the its dependence on the disorder induced by the massm in use pulmonary nerves. I see no reason to doubt that the emetics and the steaming had a very beneficial effect. on the extreme dyspuces with which the patient was admitted. They acted as relaxants to the spassm of the glottis, just as they do in suthma. As I did not see the case at the time, I do not question the pro-As I did not see the case at the time, I do not question the pro-priety of giving the centicis; but theory suggests that the same purpose might have been attained by applying repeatedly giving some doese of opium and other. If the pulse were feeble, I should prefer in another case the latter procedure. The subsequent treatment after the albumiumis was detected consisted, besides rest, in giving steadily liq. ferri peracetatis, and the results were certainly beneficial. The urino became more natural, and the patient regained ability to follow his employment.

Let me advise you, in conclusion, to get into the habit of thinking and couning your cases over, especially those which present any points of obscurity. These may often be cleared up by careful consideration, and, if not, the remembrance of them will stimulate you to further observation and research. By such mental training you cannot but be gainers; and you may depend upon it that it is not the mere seeing of cases, but the studying of their details, which will make you keensighted

and able Practitioners.

ROYAL INFIRMARY, EDINBURGH.

CASE OF VAGINISMUS-REMARKABLE ABSENCE OF SEXUAL APPETITE-TREATMENT BY DILATATION-REMARKS.

(Reported by Dr. J. R. HARDIE.)

C. W., aged 40, is married, but has had no children; she came to Dr. Matthews Duncan's Ward on January 4, 1871, complaining of great pain when her husband attempted to have sexual connexion with her.

At the age of 17 or 18 years she began to menstruate, and at that time had sexual feelings to a slight extent. For the last twenty years, however, she has had no sexual appetite, and was on that account unwilling to get married, and only did so at the urgent and long-continued request of her suitor.

About five years ago, her courses began to lose their usual periodicity, and have never since been regular. She frequently has no discharge for three mouths. The menstrual fluid is always thin like beef brine, and leaves a greenish stain on the cloths. Slight pain in the loins and leucorrhoea have troubled

her for many years.

Physical Examination.—The hymen is observed to be reputered in the usual way; in its neighbourhood the mucous membrane of the vagina is seen to be quite natural. The vagina is somewhat more contracted than usual. On passing the examining finger into it, patient experienced great pain, and when an ordinary-sized speculum was passed, she threw herself about, evidently in the greatest torture, and appeared as if she would go into convulsions.

Treatment .- January 7 .- On examining W. to-day a caruncle was observed at the orifice of the urethra, and as this is some was conserved at the orance of the urethra, and as this is some-times the source of great suffering, it was removed with a pair of probe-pointed scissors.

Pebruary 2.—The wound which resulted from the amputa-

tion of the caruncle having healed, and the pain on vaginal examination still persisting, patient was put under the in-fluence of chloroform, and a speculum of the largest size was passed into the vagina, in order to dilate it.

13th.—Patient can now more easily endure vaginal examination. The parts being healed, sho was dismissed to-day. Remarks.—A case like the one just described, would be con-sidered, as the nomenolature of diseases of women at present succeed, as the nomenotature of cuscases of women at present stands, a typical example of the so-called vagnisams or spasm of the vagnia. The absence of an unnatural degree of reduces or any other visible signs, to account for the severity of the symptoms exhibited on vagnual examination, is in itself a remarkable circumstance. It has been urged by some writers, that a fasure or crack, similar to that which obtains in fissure of the anus, is frequently present, and that this accounts for the pain endured. No fissure was observed in this instance. In the majority of cases, all that can be detected by examination is some redense, tenderness, and hardness in and about the region of the hymen at its posterior part. Slight abrasions are frequently present. The symptoms which may arise from such lesions vary in degree, from algit inconvenience to intense such issues are presented to the such as the such

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Medical Times and Gazette.

SATURDAY, MARCH 18, 1871.

THE SMALL-POX EPIDEMIC.

THERE was a further decline in the registered mortality from small-pox in London last week. In Liverpool, where the epidemic has been raging very much more severely, the mortality is stationary. The number of deaths registered in London was 194. Hitherto the Eastern districts have furnished the largest number; but, after distributing the deaths in the Hospitals to their proper localities, the Registrar-General finds that this is no longer the case; the South and the North of London are the parts to which the chief severity of the disease has been transferred. Thus, 55 of the 194 deaths belonged to the South districts, 54 to the North, 42 to the East, 24 to the West, and 19 to the Central districts. This change was force shadowed by the returns of the Association of Health Officers. The maximum appears to have been reached in Islington in the week ending March 4, while in St. Paneras and Hackney the highest number of fresh cases was recorded last week. The epidemic is wearing itself out in the several districts of London in succession.

Dr. Grieve's paper, read on the 6th inst. before the Epidemiological Society, consisted mainly of a summary of his reports anado fortnightly to the Asylum Board. Some of the facts referred to have been already laid before our readers. His observation as to the uniformly fatal issue in hemorrhagic cases is fully borne out by general experience, as alled the

rarity of this variety of small-pox in children. Still, although the caperience of the Hampstead Hospital furnishes no instance, it is certain that hemorrhagic small-pox does occur in early life. Only a few days ago we saw two children in one family lying dead together from this form of the disease. At the same time, there is no question that it is chiefly met with in persons who have constitutions damaged in some way, either by previous attacks of illness, privation, misery, previous residence in a hot climate, or intemperance.

ARMY REORGANISATION AND THE BRITISH AND INDIAN MEDICAL SERVICES.

Draws the discussion in the House of Commons on Monday night concerning the abolition of purchase and the general reorganisation of our land forces, some points were incidentally raised by Mr. Eastwick and Mr. Aubron Herbert which may excite among Medical officers of the British and Indian services a greater interest in the question at issue than many of them at present feel.

At first sight it may not appear of much importance to Medical officers whether or not their combatant breiters shall purchase their first commissions and subsequent steps; but when the proposed abelition of purchase involves the consideration of such a complete reform of our army system as has been advocated by some of the best-informed and most thoughtful members on both sides of the House and below the gangway, it soon becomes apparent that the personal interests of Medical officers cannot excape being influenced to a considerable degree. The re-establishment of the local European army in India, suggreated by Mr. Eastwick, and in which he was supported by Mr. Auberon Herbert, as part of the plan of reorganisation of the home army, opens for the consideration of Medical officers of both services questions of extreme importance.

The substitution in 1858 of an Imperial for a local European army in India rendered necessary the complete withdrawal of the Medical care of European troops from the Indian Medical Department, and as a corollary to this change there resulted a considerable increase to the administrative and executive ranks of the British Medical service in India. The loss of the Medical superintendence of the European soldiers transferred to the Crown was very seriously felt by the Medical officers of the Indian service, by whom, doubtless, the prospect of the restoration of such duties would be eagerly hailed. Mr. Eastwick proposes that 32,000 men belonging to the Imperial forces should still remain in India, thereby reducing them by more than 20,000. A corresponding reduction in the British Medical staff would very seriously affect the Army Medical Department as regards numbers, promotion, and the attainment of comparatively lucrative appointments in India. Mr. A. Herbert would entirely separate the Indian and home armies, the result of which would be entirely to withdraw officers of the British Medical service from India.

If any such changes be impending, it may be just as well that no analignation of the two Modical scrices should have taken place. Our readers will remember that in 1838 this question of amalganation was debated, and that the complete transference of all Medical duties with native troops to the British Medical service has alo been suggested as the means of bringing all Medical officers serving with troops under one responsible head, in the same way as all military authority is vested in the Commander-in-Chief. The thorough consideration of such questions is inseparable from the plans of army reorganisation proposed by Mr. Eastwick and Mr. A. Herbert, and we trust that those members of our Profession who have seats in the House of Commons may endeavour to preserve the interests of the members of both the British and Indian Medical services from the injurious influences of any change which may be effected in the organisation of the army.

SIGE TRANSPORT AND VOLUNTEER AID IN WAR.
The appearance in the Contemporary Review of a paper by Mr.
Berkeley Hill on the above subject, may be taken as an indication that the more thoughtful classes of the reading public are
at last awaking to the importance of the duties to be performed
by that department of the military service which provides for
the treatment and transport of the sick. The public can comprehend the necessity of soldiers, guns, and amunition, but has
yet to learn that the lose by sickness from the effective strength
is always far beyond that of the killed and wounded in battle,
and that it is only during the leisure of peace that effective
preparations can be made with the view of diminishing the
terrible loss and suffering which have become well-night
habitual in all military expeditions. The writer points this
moral by many instructive and well-selected instances.

We believe, however, that in stating that the amount of transport allowed by the Wat Office regulations for a force taking the field is sufficient only for the carriage of 36, or at the most 48 per division of 5000 men, thus leaving, at the usual computation of 5 per cent, or 250 men constantly sick, transport for 292 quite unprovided for, Mr. Berkeley Hüll has fallen into an error from a misconstruction of the several articles of the code of Medical regulations. The intention of these, although obscurely expressed, we believe will be found to be that, in time of war, carriage aball be provided for 6 per cent. of an army taking the field, and that under exceptional circumstances such amount may be increased on the recommendation of the Director-General in concert with the Secretary of State for War.

Professor Longmore(a) in his treatise on Ambulances notices the liability to such error, and observes that if on an army taking the field the amount of transport be not sufficient, the deficiency must arise from one of two casses—either that the Director-General has not applied for the necessary amount of earriage, or that the authorities have not complied with his requisitions. As, however, even Professor Longmore states that the precise amount of ambulance transport is not laid down by regulations, but is left to be decided by the Director-General in each case, according to the probable exigencies of the campaign, Mr. Berkeley Hill is quite justified in his comment that such a system is radically bad, as it leaves the due equipment to the mercy of the moment when every department is overwhelmed with business.

On the subject of bearers for the wounded, Mr. Berkeley Hill advocates the introduction of the German practice of detailing one non-commissioned officer and four privates in every company of infantry for such duties; but he does not appear to be aware that in the German army a company consists of 250 men, and in ours of only sixty; consequently the proportion of bearers on his suggestion for cur army would much exceed that in the German. The advantages of the system of having trained men told off as bearers of the wounded are so obvious, and have been so strongly brought into notice by the experience of recent wars, that we trust soon to see the system introduced into our army.

The views expressed on the disastrous results of the overcentralisation of the French Intendance, on the advantages of evacuating field Hospitals, on the Hospitals, on the operations of private aid societies, and on several other points, coincide so completely with those which we have ourselves so frequently advanced, that we gladly see them so clearly presented to the class of readers who study the Contingorary Review.

THE WEEK.

TOPICS OF THE DAY.

WE are threatened with three Medical Bills. Mr. Headlam seems to be hesitating, and holding the British Medical Asso-

(a) Note to page 69.

ciation Bill back for a time. Dr. Lush has compassionately taken the office of foster-father to the unhappy offspring of the Lancet, which Mr. Forster turned from his door so hardheartedly the other day. Dr. Brady has also a Bill; what this may prove to be we do not pretend to say. The Medical Profession is just now in the position of a malade imaginaire. It is a capital case for the Doctors. One celebrated Physician from Chester proffers his assistance, but assures the unhappy patient that nothing can do him good but the very expensive nostrum called "direct representation." Another learned Doctor, who, however, is known as a writer rather than a Practitioner, says that no medicine will have any effect until the patient has pulled down the old houses in Pall-mall East, Lincoln's-inn, and Blackfriars, in which he has lived so long, and got himself a new one, which is to be built under the direction of an amateur architect who is to be heard of in the Strand. A third Doctor. who dates from Ireland, recommends that the patient should undertake a peripatetic tour through the three kingdoms for the benefit of his health; and the fourth, who has a grand residence near Whitehall, gravely assures the unfortunate sufferer that he is not capable of taking care of himself, but that he must be placed under the superintendence of an officer provided by the department of State which looks after nuisances. Meanwhile, the patient, if he would but determine to take a few baths and keep himself clean, have his houses put in good repair, look after his business, and concentrate his powers on. the improvement of his circumstances, would be as healthy a body as any in the kingdom.

March 18, 1671.

We are glad to announce that on Wednesday last the Council of the Royal College of Surgeons refused to confirm Mr. Simon's amendment, carried, it will be remembered, at their previous meeting by the bare majority of one, which had for its object to send back the draft scheme for a Conjoint Examining Board to the Committee of the three English Medical Corporations for reconsideration, on the ground that the scheme did not perform the legal impossibility of binding all the Medical authorities of England to cease granting registrable diplomas save through the Conjoint Examining Board, and because the scheme did not insure the co-operation of the Universities. With regard to the first objection, noone knew better than the mover of the amendment that no scheme could deprive of their legal rights the Universities and Royal Colleges, but that practically the scheme in question effected the very real reform of providing an uniform standard of examination for nine-tenths of the Practitioners of the country. With regard to the second, the non-cooperation of the Universities, the scheme was not presented as perfect, and it is clear that the help of the Universities may be obtained as a supplement to its provisions, always supposing the Universities be willing to submit their graduates to the examinations of the Conjoint Board. The admission of a few assessors or examiners from the Universities would by no means necessitate its reconstruction. But had Mr. Simon's amendment been confirmed, it would simply have thrown back the whole matter into the chaos of two years ago, and its success would have afforded the best reason for the reintroduction of a Government Medical Bill, which would hand over the Profession bound hand and foot to be regulated and governed, ostensibly by the General Medical Council, but in reality by the Medical Department of Her Majesty's Privy Council. It is difficult to suppose that these were not the reasons which inspired the amendment. We are glad that the practical good sense of the majority of the Council of the College of Surgeons have repaired the error of rejecting the labours of their own Committee. The Council has now resolved itself into a committee for considering the details of the scheme, and for that purpose will meet on Tuesday next, the 21st inst. This course will commend itself to the judgment of the Fellows of the College and the Profession at large. So important a measure should not be passed without due deliberation; and if the

main features of the scheme be preserved, no objection can be taken to an attempt being made to extend it by the inclusion of the Universities.

Mr. Curling has been elected a Member of the Court of Examiners of the Royal College of Surgeons.

Dr. B. W. Richardson has been elected Honorary Physician to the Royal Literary Fund, in the vacancy occasioned by the death of Dr. Copland. The Literary Fund, as a charity, has an especial interest for Medical and scientific men. It sprang originally out of a club of which Benjamin Franklin was chairman, and it was founded in 1790 under the presidency of Dr. Alexander Johnson, a Physician. It has relieved a large number of Medical men who, having united the pursuits of literature with those of Medicien, have found both callings fall when broken down by age and bad health. Although founded so long age as a 1790, there have been only three Physicians to the Fund. The first was Dr. Stevenson, who was elected in 1799, and held the office until 1810. He was followed by Dr. Copland, who is now succeeded by Dr. Richardson.

On Monday, Dr. Richardson exhibited to the Medical Society of London a substance known amongst chemists as metachloral. It is a white powder, insoluble in water and alcohol. It is believed by Dr. Richardson, from experiments made on the lower animals, to possess mild narcotic properties. Metachloral is isomeric with chloral. It is produced when chloral hydrate is brought into contact with sulphuric acid. Chloral, also, may be changed into metachloral spontaneously when it is kept for a long time in a stoppered bottle, or when a quantity of water insufficient to produce the hydrate is added to it. Heat converts metachloral into the liquid chloral, which becomes the hydrate on the addition of a sufficient quantity of water. Owing to its affinity for water, chloral is a caustic, and Dr. Richardson thinks that this fact, taken together with that of its after soothing effects, may be turned hereafter to practical value. The specimen of metachloral exhibited by Dr. Richardson was prepared by Dr. Versmann by bringing chloral hydrate in contact with sulphuric acid at 140' Fahr. By treating it with alkalies, metachloral yields a formate and chloroform

A meeting of the Chamber of Agriculture will take place at the Salisbury Hotel, Fleet-street, on Tuesdalp, May 2, at 11 a.m., for the discussion of a paper by Dr. Rogers, the President of the Poor-law Medical Officers' Association, "On the Economic Aspects of Efficient Poor-law Medical Relief."

Four cases of gastric fever, one of them fatal, in a clergyman's family, are reported from Weymouth. They are supposed to have been produced by drinking water from a tank in which a rat's body had been allowed to putrefy. It must, however, be remembered that sewage gas or swarge liquid may have come by the same route by which the rat came, as the rat is sure to have come from a sewer.

LEGISLATION FOR HABITUAL DRUNKARDS.

We have before us Mr. Dairymple's Bill to Amend the Law' of Lunney, and to provide for the Management of Habitual Drunkards. With the principle of legislation for the care and management of habitual drunkards we thoroughly agree; but we fear that at present the Legislature will not see its way clear to compulsory legislation. Still, if we could only obtain permissory legislation as in Socianda, we are sure a great gain to society would accrue. The first clause of the Bill defines an habitual drunkard to be—

"Any person who, by reason of frequent, excessive, or constant use of intoxicating liquors, is incapable of self control, or dangerous to himself or others, or incapable of proper attention to and care of his affairs and family."

The second clause gives the power to confine an habitual drunkard in any-

"Liceased reformatory, asplum, or refuge, or in any reformatory, ward, or building attached to or belonging to any union or parish workhomse, while under the influence of such uncoundessed mind, and for such safficient length of time afterwards as may be necessary for the restoration of the mind and health of such person."

The third provides for the establishment of reformatories, sanitariums, or refuges, by private individuals, or associations, or corporations, or unions, or by magistrates assembled in quarter-sessions. The fourth provides that such reformatories are to be licensed under Act of Parliament. The fifth, that habitual drunkards may be admitted to such reformatories without certificate on their own written request. The sixth, that they may be admitted upon the request of a near relation, friend, or guardian, upon the production of certificates from two Medical men, countersigned by a magistrate. The certificates are only to be given on separate examination, and they are to be sent by the keeper of the reformatory, within forty-eight hours, to the Commissioners of Lunacy. The next clauses provide for the discharge of the patient, for the management of his estate, and limit the period of detention to not less than three months, or more than twelve months. This latter provision, however, may be modified by a Commissioner in Lunacy or magistrate.

The second part of the Bill relates to the commitment of habitual drunkards by magistrates. The following are its principal provisions:—

"It shall be lawful for any two or more justices of the peace or magistrates sitting in perty session, or for a stiperhingy magistrate, and in Scotland for the sheriff or sheriff-substitute of the county, to send to a reformatory, smitarium, or refuge, any person who, on it being proved by evidence given before him and by the certificate of two Medical Practitioners that such an one is a person affected in the manuer described in section 1 of this Act, and who is unable to pay for his maintenance in any other reformatory, sanitarium, or refuge, for a period not less than three months nor more than twelve months.

"It shall be lawful for any two or more justices of the peace or magistrates sitting in petry session, or stipendary magistrate, and in Scotland for the sheriff or sheriff-substitute, to commit to such reformatory, annitarium, or refuge, without certificate, any person who has been convicted of drunkenness or a breach of the peace while drunk three times within six calendar months, for a period not less than three months nor more than twelve months.

"The period of committal may be extended to a period of nont more than air months beyond the time of the first committal, upon the evidence or certificate of a duly qualified Medical Practitioner that such extension of the period of etention is required for the restoration of the mind and health of the detained party."

INTOXICATION BY PUNGL

In Kennan's interesting "Tent Life in Siberia" there occurs the following passage:-After due conclusion of the ceremony (a Korak marriage) we removed to an adjacent tent, and were surprised, as we came out into the open air, to see three or four Koraks shouting and reeling about in an advanced stage of intoxication-celebrating, I suppose, the happy event which had just transpired. I knew that there was not a drop of alcoholie liquor in all Northern Kamtchatka, nor, so far as I knew, anything from which it could be made; and it was a mystery to me how they had succeeded in becoming so suddenly, thoroughly, hopelessly, and undeniably drunk. Even Roes Browne's beloved Washoe, with its "howling wilderness" saloons, could not have turned out more creditable specimens of intoxicated humanity than those before us. exciting agent, whatever it might be, was certainly as quick in its operation, and as effective in its results, as any "tanglefoot" or "bottled lightning" known to modern civilisation. Upon inquiry, we learned, to our astonishment, that they had been eating a species of the plant vulgarly known as toadstool. There is a peculiar fungus of this class in Siberia known to the natives as " muk a moor," and as it possesses active intoxicating properties, it is used as a stimulant by nearly all the Siberian tribes. Taken in large quantities, it is a violent parcotic poison; but in small doses it produces all the effects of alcoholic liquor. Its habitual use, however, compl-tely shatters the nervous system, and its sale by Russian traders to the natives has consequently been made a penal offence by Russian law. In spite of all prohibitions, the trade is still carried on, and there were twenty dollars'-worth of furs bought with a single fungus. The Koraks would gather it for themselves, but it requires the shelter of timber for its growth, and is not to be found on the barren steppes over which they wander; so that they are obliged, for the most part, to buy it at enormous prices from the Russian traders. It may sound strange to American ears, but the invitation which a convivial Korak extends to his passing friend is not "come in and have a drink," but "won't you come in and take a toadstool "-not a very alluring proposal, perhaps, to a civilised toper, but one which has a magical effect on a dissipated Korak. As the supply of these toudstools is by no means equal to the demand, Korak ingenuity has been greatly exercised in the endeavour to economise the precious stimulant, and make it go as far as possible. Sometimes, in the course of human events, it becomes imperatively necessary that a whole band shall get drunk together, and they have only one toadstool to do it with. For a description of the manner in which this band gets drunk, collectively and individually, upon one fungus, and keeps drunk for a week, the curious reader is referred to Goldsmith's "Citizen of the World," Letter 32. It is but just to say, however, that this horrible picture is almost entirely confined to the s-tuled Koraks of Penzhinsk Gulf-the lowest and most degraded portion of the whole tribe. It may prevail to a limited extent among the wandering natives, but I never heard of more than one such instance outside of the Penzhinsk Gulf settlements.

This practice, which has long been known, furnishes a carious illustration of the tendency of men of all races to provide themselves with some stimulant-generally also of a narestic character. The fungus so used is closely allied to the bright orange-red amanita muscaria of antumn growth. Its eff ets, however, seem to differ considerably from those produced by the poisonous fungi of this country. These are ordinarily either irritant or narcotic, and although they sometimes produce the staggering gait of drunkenness, do not produes the exhilarating effect which would seem to be the result of the Siberian species. It is worth noting that the poisonous qualities of most fungi may be removed by boiling. Thus, the caucita muscaria above mentioned is a very dangerous plant, but when boiled its flesh is harmless, though the water in which it has been boiled becomes a powerful poison.

SMALL-POX.

THE Registrar-General, in his Annual Summary of Births and Deaths in London, says that "small-pox destroyed 25,061 lives in the thirty-one years, 1840-70. The annual deaths averaged 808. The lowest number of deaths in any one year was 154, in 1857; the highest number was 2012, in the year 1863. In eleven of the years the deaths exceeded 1000, in thirteen they were below 600; thus they fluctuated to the extent of one-fourth every two or three years. The deaths rose above 1200 six times, and fell below 400 eight times. Taking this standard, the disease is very fatallevery five years on an average. The disease can be followed week by week, quarter by quarter, and taking the quarter of highest smallpox death return as the keystone of the arch, we have ten enidemics in thirty years-one every three years. A new small-pox epidemic of unexampled severity began at the end of the year 1870. The seasons do not affect the mortality of the epidemic to any great extent. Thus, the weekly mean number of deaths was 16; the weekly deaths in the winter quarter was 17, in the summer 14. The mortality is highest in winter, lowest in summer; it is at the average in spring and autumn.

COMPULSORY VACCINATION.

A very brief allusion was made in last week's number of the Medical Times and Gazette to the decision of the Wolverhampton stipendiary magistrate in a prosecution for neglect of vaccination. The particulars of the case may not be uninteresting, as they embody the opinion of the law officers of the Crown (the Attorney and the Solicitor-General). Mr. Spooner, the stipendiary, recommended that the opinion of the law officers of the Crown should be obtained through the Poor-law Board. Such recommendation having been acted upon the opinion arrived at by the Crown lawvers was that it appeared to them impossible to hold that the parent who appeared without the child could maintain that the justice had no jurisdiction because there was not an appearance, and, at the same time, maintain that he had appeared in obedience to the summons. If there was an appearance, the justice could proceed under the Vaccination Act of 1867. If there was not an appearance, he could proceed under 11 and 12 Vict., cap. 43, sec. 3, taken in conjunction with the Vaccination Act, section 31. They did not think a writ of habeas corpus applicable to the case. If the child was of sufficient age to give evidence and be required as a witness, it appeared to them that the magistrate might put in force the provisions of section 7 of the 11 and 12 Vict. to compel its attendance. Upon these opinions the decision will be appealed against in the Court of Queen's Beach. The section 3 of 11 and 12 Vict. here referred to empowers the justice or justices whose summons is not obeyed to issue a warrant for the apprehension of the defendant, to be dealt with according to law.

VACCINATION AND REVACCINATION OF SEAMEN .-- THE DUBLIN MARINE BOARD AND THE BOARD OF TRADE.

The increasing number of cases of small-pox imported from Great Britain and elsewhere renders it necessary for Government to facilitate measures devised by the local authorities in Ireland to check the spread of the disease. It was with this view that the Dublin Marine Board authorised their Medical Inspector to attend on stated days at the Dublin Custom-house for the purpose of gratuitously vaccinating all scafaring persons desirous of that protection. The Board communicated their resolution to the Board of Trade, in full expectation that the latter department would sanction their very patural and laudable resolution; it is, however, with much regret we have to state that the Board of Trade replied that "they are responsible neither for vaccination of the men nor for the payment of the Medical officer." It appears the receipts of the Dubliu Marine Board from examination of seamen for qualification as masters and mates amounts to a sum considerably over the cost of that department. The measure recommended by the Dublin Board has the fullest approval of such able Professional gentlemen as Dr. Dickson, Medical Inspector H.M.'s Customs, London, Dr. Holcombe, Medical Inspector of Emigrants, Liverpool, and others Professionally connected with seamen. who hail the action of the Irish local authorities in the matter as well worthy of imitation in Great Britain. It seems a great pity that the Board of Trade have not at once authorised the Dublin Local Marine Board to take the necessary steps, when the entire expense is so small as probably not to exceed eighteenpence to two shillings per head.

DR. GORDON AND SURGEON-MAJOR WYATT.

Dr. C. A. Gordon, C.B., Deputy Inspector-General of Army Hospitals, has arrived in town from Paris, where he had been employed during the entire period of the siege, in concert with Surgeon-Major Wyatt, Coldstream Guards, on a special mission of observation. We are happy to hear that Dr. Gordon is in good health, notwithstanding the privations and anxieties to which he was subjected. Surgeon-Major Wyatt, we regret to add, in consequence of slight indisposition, has not yet been able to leave Paris.

THE TORPEY CASE. --- ADMINISTRATION OF NABOOTIC VAPOURS FOR

THE acquittal of the woman accused of having taken part in the late jewel robbery has excited universal surprise, in that it has proclaimed a legal argument, in respect to the relationship of a wife to her husband, not a little startling. But there is another and Medical, or better say physiological, aspect of the question, which is also a cause of marvel. The defence did not deny that the jeweller's assistant who was robbed was first made insensible with some narcotic vapour administered by inhalation, and hence it is assumed that the felonious administration of narcotic vapours-against which Lord Campbell endeavoured to legislate, in 1851, in his Prevention of Offences Bill-is a possible and a practical offence. We ourselves regret that at the trial a more determinate inquiry was not pursued relative to the administration of the narcotic vapour. What was the agent employed? How long was the inhalation sustained? The case differs from all other addreed cases of a similar kind, in that physical force is stated to have been employed together with the narcotic. The male prisoner held his victim, it is stated, while the female administered the vapour. In all preceding cases, it has been urged that the narcotic was simply applied without force-that is to say, a handkerchief holding the narcotising fluid was simply thrown over the face. We of the Medical Profession have often denied the possibility of producing insensibility by this last-named method, while we have admitted that the insensibility could be induced if the body of the person to be made insensible were forcibly restrained. The Torpey case, therefore, in our opinion, presents the possible fact of felonious administration of a narcotic vapour; but we believe it to be the first case of the kind, and we beg the public to be reassured on this point-that no volatile substance can be used, with felonious intent, unless there be present a pinioner as well as a poisoner.

CORONERS' INQUESTS.

Ar the Durham Lent Assizes (just over), three men-Spencer. Hayes, and Watson-being respectively the viewer, underviewer, and overman of a large colliery, stood charged with manslaughter on a coroner's inquest. They had never been taken before a magistrate. Baron Martin told the grand jury that he did not think any bill would be preferred, as the only evidence which the coroner's jury seemed to have had, to give colour of warrant for their finding, was that of the three men themselves against whom the verdict had been found. A bill, however, was sent up, with an array of about forty witnesses, and was thrown out. The counsel for the presention, however, insisted upon proceeding on the coroner's inquisition. It need scarcely be added that the prosecution broke down. Baron Martin emphatically and peremptorily disallowed the whole of the costs, and observed that during the twenty years he had been a judge he had never known a prosecution proceed upon a coroner's inquisition after a bill had been ignored by a grand jury. Here are three men invited to give evidence at the coroner's inquest, and then, upon their own evidence, thus elicited, committed for trial! No doubt they might have objected to give evidence which might tend to criminate themselves, but who on earth can tell what may not criminate a witness in the enlightened eyes of a coroner's jury? A magistrate is bound to caution a prisoner charged before him, and to hear any witnesses the prisoner may desire to call in explanation of the transaction, before he commits him for trial. The coroner commits a man for trial either behind his back, unconfronted with his accusers, or, as in this case, after having used the man as a witness; the commitment of the magistrate is subject to revision by an intelligent grand jury, charged and instructed by a learned judge of assize. The coroner and his alchouse jury have an absolute, uncontrollable power to force a man, despite judge and grand jury, into a

felon's dock! There are also humane provisions for securing the attendance at the assizes and providing for the expenses of material witnesses called by a prisoner before the committing magistrates, which do not apply to witnesses before coroners. Surely it would be sufficient that the finding of a coroner's jury should operate as a warrant to apprehend the person so accused and charge him before a magistrate, to be dealt with in the ordinary way. Such changes as thus indicated in the coroner's functions need not one whit impair his efficiency in ascertaining the cause of violent deaths, which ought to be the subjects of properly constituted and well-conducted inquiries. It might reasonably be supposed that were Mr. Baron Martin's example followed by the rest of the judges, in disallowing the whole of the costs in such cases, a check would at once be put to such vexatious proceedings. But such would not in all cases be the effect. In the instance before us a strong feeling had been imported into the case, which was that of men against masters. Subscriptions to prosecute the prisoners had been invited by advertisements in the public papers circulating in the county, and the coroner's jury, composed of the small' shopkeepers in a pit village under the control and surveillance of colliery proprietors, evidently only too eagerly accepted every scintilla of twaddle and hearsay as evidence of criminality. How the costs of the poor prisoners were defraved is left in obscurity.

THE FEMALE MEDICAL STUDENTS AT EDINBURGH.

Ox Monday last the new Board of Managers of the Ediuburgh. Infirmary refused to admit formale Medical students to the wards by a majority of 13 to 5. This is the third time the question has been discussed by the Board in the negative. The Presidents of the Royal Colleges of Physicians and Surgeons of Ediuburgh have declined to preside at the distribution of prizes to the students of the extra-neademical school on the ground that mixed classes have been sanctioned by the teachers. It is hoped, however, that next year the sended of a mixed anatomical class will be cheeked by the appointment of a new and popular teacher of nantomy. The action for malicious slander brought against Miss Jex Blake, by a follow-student, is fixed for trial on 30th May next. It is rumoured that one of the extra-nondemical teachers is unpleasantly involved in the affair.

PROPESSOR PAYRER ON SNAKE POISON.

Dn. FAYRER has just brought to a conclusion an elaborate and valuable inquiry into the characters of the poisonous sankes of India, and the possibility of discovering an antidote to their bite. The research, it is to be regretted, is only too conclusive; nothing which has yet been found can stay the doubly effects of sanke-bite, when inflicted by the more poisonous species of India. The results of Professor Halford's plan of injecting ammonia into the veins from time to time reaches as from Australia. Sometimes it is successful, at other times it must be confessed a failure; but in India the same plan has had one uniform result—nasuccess. It would seem that the only loperful pains is that already insugarated, and which in other lands has succeeded with other plagues—extirpation, fostered by a reward for each stanke killed.

A CHEMIST FINED FOR SELLING A TOOTH-POWDER WITHOUT A LICENCE.

AT Richmond, on Wednesday, the 8th inst., Mr. Lloyd, elemint, was summoned by the Excise authorities, under 26 Ge. III., cap. 56, for selling patent medicines without a licence. The defendant admitted the sale, but submitted that the article (a box of "Rowhands" obloate") was not a patent medicine within the meaning of the Act, but a tooth-proder. If was further summoned under 24 and 25 Viet., cap. 19, for selling methylated spirits without a licence. He contraded that he had a right to sell methylated spirits for mixing with varnish.

or for similar purposes. The Bench held that all toothpowders came within the meaning of the Act as patent medicines, and they fined the defendant in the mitigated penalty of £17 10s.

GULSTONIAN LECTURES AT THE ROYAL COLLEGE OF PHYSICIANS, BY DR. GER.—LECTURE L.

THE lecturer began by referring to the modern theory of the indestructibility of force-the force which the body sets free in the form of heat and mechanical work being contained originally in the air which is breathed and the food which is enten. He then passed on to discuss the three theories concerning the production of animal heat. The ancient doctrine of innate heat was first briefly referred to. The second, or chemical theory, was definitely propounded by Lavoisier in 1777, but had been hinted by Galen and others before that time. Lavoisier's doctrine, in the words of Mayer, is this-the sole sonree of animal heat is a chemical process, specially an oxidation process. But the oxidation theory requires reservations to be made: first. the combustion-heats of the compounds burnt in the body are not the same as the combustion-heats of the elements of those compounds; secondly, the oxidation of much of the combustible is incomplete (this is especially true of nitrogenous matters); thirdly, other processes besides oxidation generate hoat. Oxidation being the chief source of the heat, where is this heat produced-in the lungs, or in the body at large? The fact that the blood in the left ventricle is usually a little warmer than the blood in the right, seems to leave no doubt that heat is produced in the lungs. Nor is it less certain that the more active tissues of the rest of the body, especially the glands and muscles, generate much heat. Another question was then debated-Is it the elements of the blood itself, or of the tissues, which are oxidised ! Mayer's argument, drawn from the muscles, was deemed to be substantially correct-namely, that the oxidation which goes on in muscles is, to a very small extent, direct oxidation of the muscular fibre; and therefore oxidation of this kind probably takes place in the blood or the fluids outside the muscular fibres. But possibly the muscular plasma becomes oxidised in its synthesis. The experiments of Alex. Schmidt were quoted as rendering the oxidation of certain constituents of the blood all but certain. The third or mechanical theory of animal heat was then discussed, and found to form, in reality, merely a portion of the chemical theory, the contraction of the heart and other muscles implying chemical change. Lastly, the means by which the body loses heat were narrated, and the loss of potential heat consequent upon mechanical work and electrical discharges was more particularly dwelt upon.

PROM ABEGAD.—M. GUÉRIN ON MEDICAL DEPUTIES TO THE ASSEMBLY—REPORT ON THE CONCOURS FOR THE PROFESSOR-SHIP—THE LYONS HOSPITALS.

It is a pleasant thing once more to grasp the hands of our friends the Gazettes from Paris-full, we are rejoiced to see, of the old life and vigour in their writing, and sanguine in their hopes that some social and Professional good may be extracted from amidst the calamities that have overtaken their country. That veteran Medical reformer, M. Gnérin, has again taken the helm of the Gazette Medicale into his own hands, in the hope that, as the state of things in reference to Medical politics which existed in 1848 has been revived, although by so sadly different a procedure, in 1871, some of the views which he then put forth, and which met with but a sorry realisation, may now, if reproduced, be attended by more practical results. Now, as then, he advises that Medical men should take a more active part in the political and social life of the country, and believes that the more than twenty years which have intervened at once demonstrate the necessity of their interposition, and supply them with the teachings of experience as to how

this may be usefully employed for the public interests. Perhaps our friend's aspirations will be considered in this prosaic part of the world pitched in somewhat too high a key, when he tells us—

"The competence of the Doctor in relation to political and social organisation arises alike from the aptitude which he offers for the solution of the questions to be resolved, and from the nature of these questions themselves. In both these points of view, demonstration is of the easiest. What is the true osition of the Medical man placed face to face with society? He is a man initiated in the whole range of human knowledge, no one portion of which does not possess its utility in the practice of his art. His is the independent mind which his Profession brings incessantly into the presence of the most varied facts of nature, whose observatory, indeed, is entire nature. He has constantly before him reality in all its forms -that is to say, a control as to every truth, and a guarantee against every prejudice. But to these general qualifications against every prejudice. But to these general qualifications and conditions of the independence and liberality of his mind the Doctor adds others, which assure him a constant and pervading preponderance. He is brought into relation with every class of society, entering alite the palace and the cabin, the abodes of the rich and the poor. He observes all abuses, appreciates all wants, frequents all parties, observing them in operation, and receiving their confidence, and is thus more apt than anyone soever to judge of their weaknesses and their dangers. But this is thus far only the somewhat passive part taken by the Doctor, and his active part is not less decisive and well-marked. His independence excludes all distrust, and he well-marked. Its independence exenues all unstruss, and no is able to plant truths which, coming from any other quarter, would be rejected, and to smooth differences which else would often remain irreconcilable. From his month men are dis-posed to receive all kinds of initiations. He is the priest of the religion of truth. Such is the Doctor regarded as a citizen. Considering him only under this general point of view, he is not only of an aptitude and a competence equal to those of other citizens, but he derives from his title and his Profession a primary superiority which assures to him a general and absolute competence in the management of public affairs.

It will be admitted that, if this ideal Doctor does not meet with the success anticipated for him in political life, it will not be from want of a sufficiently elevated conception of his functions on the part of his deviser. As to his more special attributes, those on account of which we are accustomed to wish to see members of the Profession in our own Parliament, they will have a wide field enough for display in France, and, one would think, might suffice for any ambition. There are the population question (now more than ever pressing in France), the immense mortality of nnrse-children, the lunacy laws, the reform of the sanitary laws, the Medical aid to the poor, the condition of the Hospitals, the regulation of the hours of labour for children, the amelioration of the physical condition of the lower classes—these and various other measures, all may derive great and enlightened aid from the presence of well-informed members of the Profession in the Legislature, even if they do not believe themselves invested with the majestic attributes before adverted to. M. Guérin has always been a sanguine man, and the precedent of 1848 does not discourage him.

"We do not dissimulate from ourselves that the co-operation of Dectors in the different assemblies which followed 1848 has not, perhaps, sufficiently justified the pretensions which we are now expressing. Without recalling the names of those who took part in them, it is a fact that they did not leave very luminous traces of their presence. It may be replied that the insufficiency in time deliver that a more just reason than this may be adduced—viz, that those sessemblies, more political than organic or social, were nuch more occupied in scenning the political bases of the new order of things which they wished to establish than in examining the true problems of organic and social legislation. Surely, when Bonder and Trousseau, to name only the dest, had to aid in the defence they accept yould have found the opportunity of furnishing their contingent of light to the laws for the various modes of ameliorating our race."

We fear there is some of this kind of work to be yet gone

through before the French Doctor will find his appropriate place in the Legislature; and so he seems to think himself, for M. Guérin states that out of the 750 deputies of the present Assembly only five or six are Doctors. He consoles himself with the reflection that the present body was only summond for a special purpose, although he thinks that even in it Mediciaes should have occupied a much more conspicuous position.

The Gazette Hebdomadaire anticipates the speedy establishment of the concours will be one of the results of the present state of affairs. This had long been demanded by a large party of the Profession, and its suppression was one of the most unpopular acts of the late Government. A committee of the Faculty of Medicine, composed of Professors Wurtz, Deponvilliers. Tardicu, Behier, Broca, and Gavarret, have just delivered a preliminary report upon the subject. They observe that the Medical student throughout his career is submitted to the operation of the concours with the object of ascertaining his progress and position; the various appointments to which he is afterwards eligible are awarded through the operation of the same test; and when he has passed through his career, and the bonours of the agricalship await him. he has to win his way into it through the severest contests. How effectual the concours has been in judging of merit may be to some extent inferred from the fact that although for the last forty years the agrigis have no longer enjoyed any exclusive privilege in furnishing candidates for Professorships, yet out of fifty-three Professors who have been chosen since 1830 only eight have not been agrégés. Formerly the Professorships themselves were the rewards of successful concours, and some of these celebrated contests, which have brought to the surface men of the highest talent and genius (some of them, as in the case of Velpeau, springing from a position of extreme poverty), constitute almost epochs in the history of Medical science in France. All this was altered by the late regime, and since 1852 the Professors have been nominated or dismissed at the pleasure of the Crown, on the simple recommendation of the Minister of Public Instruction. It is true that, as a general rule, they were self-elected by the Faculty itself, which furnished to the Minister a list from which the selection was made; but there was no obligation on the part of the authorities to confine their choice to persons so indicated. It is however, not to be concealed that many men who have arisen to high position in public estimation are averse to submit their claims to Professional posts to the concours, and that with a portion of the Faculty itself the mode of selection is not in favonr. Still, in the opinion of the Committee-

"Of all the modes for nominating Professors, it is incontestably the one which furnishes the best guarantee. But it must not be forgotten that, in order to obtain good results from it, the concours should be so organised as to satisfy two essential conditions. On the one hand, the scientific claims of the candidates ought to be taken into very great consideration, the candidates ought to be taken into very great consideration, and be most seriously examined, studied, and discussed in the private meetings of the jury; and on the other, the public trials, reduced in number to what is rigorously necessary, to allow of the appreciation of Professorial qualifications, ought to be so chosen and regulated as to prevent all surprises or vain discussions—placing the candidates, in a word, in the conditions which are imposed by the needs of the higher teaching and the nature of the chair for which they are contending. With trials thus combined, when all possibility of surprise has sen eliminated, and when acquisitions will have full liberty to display themselves, it can be no longer feared that men of incontestable merit and of great notoriety justly acquired will stand aloof for fear of compromising their reputations. What legitimate motives could they allege for abstaining to offer themselves, when they have become assured that, at the period for the definitive judgment being delivered, their scientific acquisitions will weigh with their entire force in the balance, and when they are only asked to accept before a jury of cometent men, in a locality freely open to the public, a position which is incumbent on every Professor?

The committee brings forward a "Projet d'organisation du Concours," by which it seeks to attain these ends, and to obviate objections to the operation of the institution which have sometimes been urged. To this we may again advert when it seems somewhat nearer re alignifica.

The following is the Hospital accommodation in the second city of France:-

1. The Hitch Dime contains 1903 beds.—viz., 929 gratuitous beds (including 26 for married lying-in women), and 164 beds for which payment is made. Of these, 160 pay 1½ frames per diem, and 4, for lying-in women, 1½ frames per diem. There are also 3 private rooms, which are almost always occupied. Each of these contains a patient, who could not receive the necessary care without very great expense at home, and is charged at the Hötel-Dien 12 frames per diem, this including any operations that may be required. The insame, patients with contagious disease of the skin, the syphilitic, and the enlieptic are not admitted into the Hötel-Dien.

2. The Croix Rouss is especially intended for the inhabitants of the part of the city no-called, and only patients suffering from non-surgical affections are admitted, the same exempttions in regard to these also being observed as at the Id-Li Dicu. There are 293 gratuitous beds, 10 being for married lying-in women and 43 for beds paying 14 fm.-ottal 335 beds.

3. The Astiqualite receives the insane, the syphilitie, and those with infectious cataneous diseases of both except the expense of their treatment being defrayed either by their families or by the roomators. The Antiqualitie also admits persons of either sex on payment of an annual pension of 500 frame; and if this is for lie, a capital is paid over to the Hospital, adjusted according to the age of the person to be admitted. In a service recently appointed, female epileptics, alove 10 years of age, if they do not exhibit symptoms of insantly, are admitted. In admitted at 500 frames per annum.

4. The Haspire de Person is for 100 indigent incurable patients of good character—viz., 40 gratuitous beds for men and 61 of women. There are also 9 beds for men and 6 for women, who pay 350 frame per anum. The insane, the epileptic, person auffering from contagious diseases, and those who are under 25 years of are cannot be admitted.

5. The Asile St. Engine is for poor convalescent men on their leaving the Hôtel-Dieu or Croix Rousse, and will accommodate 93 patients.

PARLIAMENTARY, -- FORTIFYING WINES -- BINDERFEST -- AMENDMENT OF THE MEDICAL ACT -- FAILWAY COMPANIES BILL.

On Thursday, March 9, in the House of Commons, in answer to a question by Sir J. Lawrence,

The Chancellor of the Exchequer said the duties of the Coasons with regard to the fortifying of wines in bond were regulated by statute. In the case of wine intended to be imported into this country, the Customs would p-rait them to be fortified to the extent of 10 per cent. of spirit, provided that the whole strength of the wine did not exceed 40 degrees, but with regard to wines intended for exportation the Customs had power to permit an admixture of a larger quantity of spirit, fit is aloud appear to them to be necessary in order to prevent the wine fermenting in the course of a sea royage.

Sir J. Lawrence then gave notice that he would ask the Chancellor of the Exchequer if the Board of Customs had equal power with regard to permitting the admixture with wines in bond of articles other than spirits for the purpose of fining or flavouring them.

In answer to a question by Mr. Mr.Lagan, Mr. Forster said the Priry Council, in consequence of the prevalence of rinderpest in France, had come to the conclusion to prohibit the importation of cattle from France and Belgium. On Tureslay, Dr. Lush obtained leave to bring in a Bill to

amend the Medical Act of 1858.

Dr. Brady also obtained leave to bring in a Bill for the same

purpose.
The sitting of the House of Commons on Wednesday was taken up in discussing Sir H. Selsyn-libbetson's Railway Companies Bill, which, amongat other provisions, establishes special tribunals for the trial of compensation cases, and limits the amount recoverable. The debate was adjourned.

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the undermentioned Districts.

			W	eek endi	ng	
Districts.	1	Feb. 18.	Feb. 25.	Mar. 4	M	ar. 11.
Wrat-		Cases.	Cases.	Cases.	Causes.	Hent to
Chelsea		10	12	P	9	A.L. Prince
St. George's, Hanove	r.					
square		28	14	16	7	6
	St.	100	47	30	4104	
St. James's, Westminst		14	8	3	3	1
NORTH-						
St. Paneras		9	64	62	69	P
Islington .	÷	36	31	62	23	16
Hackney	1	9	30	36	41	
CENTRAL-						
City of London .		*	20	22	9	_
St. Giles's-in-the-Field	s .	9	10	ő	10	5
Holborn		14	5	2	3	3
St. Luke's		2	2	20	¥	
East-						
Whitechapel		31	31	34	22	_
Poplar		P	7	9	P	-
South-						
St. Mary's, Newington	١.	25	8	16	19	5
St. Olave's, Southwark		P	4	2	9	2
St. George-the-Marty			-			_
Southwark		1 1	3	2	17	8
Bermondsev	·	9	20	1.5	2	-
Lambeth		18	28	12	28	17
Clapham		2	5	28	17	3
Battersea		8	14	2	13	9
Wandsworth		?	5	4	F	Section 2
Putney		-	_		1	2
Streatham		F	2	1	F	_
Camberwell		1	5	26	14	1
Greenwich		P	Minus	2	7	_
Lewisham		8	2	1	16	P
Plumstead		Y	4	1	1	

THE PRESENT EPIDEMIC OF SMALL-POX.

(From a Correspondent.)

THE meeting of the Epidemiological Society on the 8th inst. was devoted to a consideration of the present epidemic of small-pox. The President (Dr. Seaton) opened the proceedings by a brief account of the more prominent features which had characterised the outbreak. He stated that it had been the most intense within his knowledge-intense in a degree not altogether explicable by the amount of neglect of vaccination. It was important to determine to what extent such neglect had contributed to the exceptional intensity of this epidemic; but in his remarks under this head it became obvious that the neglect of vaccination had been so great, and that there had been so large an accumulation of imperfectly vaccinated adults, that exceptional intensity of diffusiveness of the disease could only be stated with considerable reservation. At casesser count only or successful considerator reservation. At the time of the commencing spread of the spidenic, the consideration of the spidenic of the spidenic of the than at the outset of the spidenic of 1865-67, yet the malady had been diffused among the population of the metropolis, particularly among adults, to an extent unexampled for many years. But Dr. Seaton's remarks further showed that the metropolis was probably the worst vaccinated place in the king dom; that much of the vaccination done in recent years had been of the most slipshod character, and that the adults who suffered chiefly from the epidemic were those who had been thus vaccinated; that, in fact, we were probably suffering now from the accumulation of imperfectly vaccinated persons, whose partial protection by vaccination, such as it had been,

had were out. Dr. Grieve, the Medical Superintendent of the Hampetode Small-pox Hospital, who followed Dr. Senton, asterical a brief unalysis of 800 cases of small-pox observed in that Hospital during the present epidemic (of which ea append an abstract), largely confirmed, in our opinion, they are the small position of the small position of the state of reactivation of the small position of the state of reactivation had to be climinated before the inference of a peculiar intensity of the present epidemic could be placed on a sattlet-

tensity of the present spacemus count on places on a measure-tury foundation. At any rate, the observation of the epidemic, notwithstanding assumed peculiarity of intensity, that confirmed Dr. Seaton, Dr. Grieve, and, in addition, Mr. Marson, in their entire faith in vaccination. Of its influence in controlling the course and diminishing fatality from the disease, the data of this epidemic repeated in every respect the data of preceding epidemics. In both the Highgate and Hampstead Hospitals the mertality among the unvaccinated was 44 per cent., among the vaccinated 9 per cent. As to the protective influence of vaccination, Dr. Grieve related the remarkably instructive fact that of sixty attendants and persons constantly engaged among the sick at Hampstead—the largest accumulation of small-pox patients in the metropolis within living memory—all these attendants and others about the Hospital having been carefully rovaceinated at the time of commencing their duties, not one had been attacked with the disease since the Hospital had opened on December 1 last. This fact is of itself sufficient to prove that vaccination has lost none of its efficacy, and to lend some probability to the conclusion that the intensity of the present epidemic is more a measure of the prevailing quality of vaccination than an indication of any more occult cause. At any rate, this was the practical deduction which clearly flowed from the remarks of Dr. Seatou, Dr. Grieve, and Mr. Marson. As throwing incidental light upon this subject, is was men-tioned in the course of the evening that several attendants in another of the metropolitan small-pox Hospitals, who had been selected as having suffered from small-pox, and had not been vaccinated or revaccinated when introduced to their duty, had been seized with the disease. An interesting question arose out of this fact as to whether persons who had suffered from small-pox, and who were brought as attendants or under other circumstances into immediate and frequent contact with smallpox patients, should be vaccinated or revaccinated, as the case might be. Mr. Marson stated that he had never vaccinated persons engaged as nurses at the small-pox Hospital who had clearly suffered from small-pox; and he had not had occasion to conclude that he was wrong in so doing. He expressed an opinion, moreover, that probably, in the cases of seizure mentioned, the statement of the nurse as to a previous attack of the disease had been taken with too much credence, as it was astonishing how readily persons deceived themselves as to having had the small-pox. Mr. Radeliffe, however, speaking on this subject, held that practically, and having regard to the occasional occurrence of second attacks of small-pox, unless the evidence of a previous attack were indisputable, the wiser course would be to vaccinate or revaccinate, as the case might be, all persons who for the first time were placed in attendance upon the sick of the disea

The discussion which followed Dr. Seaton's remarks and Dr. Orieve's paper was very discursive, and chiefly dealt with the question of revaccination. Upon this question, statements were made of great importance respecting the quantity of careless revaccination with the procured in the total process of the produced. Mr. Marcon's opinion was very decided, that unless some of the effects described in text-books on the subject or in the instructions to public woomloads had been produced. Mr. Marcon's opinion was very decided, that unless some of the effects described in text-books on the subject or in the instructions to public woomloads had been publicated by the produced of the produced of the produced with the produced of the prod

tion of Medical advices. The law facilitates its being carried out among the poor and impoversibed; but it is the duty of the private Practitioner to advise its due and proper performance. The law here has no place. The question is, as the law stands, a Medical question, a question between doctors and patients, and the responsibility of seeing systematic revaccination carried out reads with the private Practitioner.

ABSTRACT OF DR. GRIEVE'S PAPER.

The paper consisted of a brief statistical analysis of the first The proper consistent is noticely students immayase in the these Soo cases of small-pox treated at the Hampstead Hospital between live, 1, 1876, and Feb. 18, 1871. He regarded the bight fat-lifty to be due to the worst cases having been forwarded to Hampstead. Nevertheless, there could be doubt that the epidemio is extremely virulent, as manifested doubt that the opidemio is by the large number of cases in which a hiemorrhagic character was exhibited. In his experience, variola hemorrhagica has been uniformly fatal, and the deaths of vaccinated adults had mostly been due to the small-pox having been of this variety. He considered that it was mainly due to intemperance variety. The considered teat in was mainly due to intemperance and to the neglect of sunitary laws that this form of the disease occurred. He could not recollect a single instance in which it had happened in a child. As to the fatality of smallpox generally, he thought that it was fatal to persons who would otherwise have succumbed to other symotic maladies had they been prevalent in the place of small-pox. The author then referred to his observation that the proportion of vacci-nated to unvaccinated persons admitted increased with age. Thus, under 10 years of age, the unvaccinated were to the vaccinated as 2 to 1; while between 10 and 20 the vaccinated were to the navaccinated as 4 to 1; between 20 and 40 as 5 to 1. and over 40 years as 9 to 1. The unvaccinated persons admitted became fower and fewer as age advanced. It is his belief that this may be explained, not by assuming a lessened liability to small-pox with advancing age, but rather on the ground that few unvaccinated persons reach 40 years without suffering from small-pox. Vaccination shows its beneficial effect in three from small-pox. Vaccination shows its beneficial effect in three ways—namely, by lessening the liability to small-pox, by rendering it a less fatal disease, and, where it is not fatal, by lessening the duration of the attack. The fatality among his lessening the duration of the attack. Into intanty among the 591 vaccinated cases was 58, or 9.8 per cent., and among the 209 unvaccinated cases, 96, or 45.8 per cent. The average stay of vaccinated cases which recovered in Hospital was twenty-four days; of unvaccinated, thirty-five days. author criticised the arguments of the Registrar-General, from author criticises the arguments of the Registrar-teneral, from which that gentleman drew an inference that the effect of the control of the control of the control of the control different control of the control of the control of the different control of the control of the control of the different control of the control of the control of the different control of the control of the control of the different control of the control of the control of the different control of the control of the control of the control of the different control of the control of the control of the control of the different control of the control of the control of the control of the different control of the control of the control of the control of the different control of the control of the control of the control of the different control of the control of the control of the control of the different control of the control the value of which is attested by the fact that not a single case of small-pex had arisen among the officials at Hampstead, while no person unquestionably revaccinated had been admitted there. There had, however, been two cases of second attacks of small-pox. At first the male admissions were much in excess of the females, but lately more women and children have been admitted

REPORT OF THE ROYAL SANITARY COMMISSION.

No. II.-Defects of the Existing Laws.

In considering the report of the Commissioners, we need be under no apprehension that they have overlooked or underrated any out-lying portions of the subject. How comprehensive the inquiry has been is evidenced by their own statement as to what they have regarded as relevant?—

"The anitary laws we understand to include all the law which provide for the supply of water, aswerage, drainage, removal of refuse, control of streets and buildings, prevention of overcrowding, and other sense of promoting the public heath, as also the laws for preventing the introduction and spreading of contagious and infectional classess and updefensic affecting it also the laws of the preventing the introduction and spreading of contagious and infectional classess and updefensic affecting italies open the door for the treatment of an unlimited range of subjects bearing more or less directly upon sunitary science.

To numbers of our readers who have been labouring for

years in the cause of sanitary reform, the points noted by the Commissioners as illustrating the importance of the subject will be as "twice-told tates"; but appearing with the sanction afforded by this Report, and as the result of the voluminous amorest of time report, and as the result of the voluminous ovidence assumitted, those points acquire a weight—a value "for instruction and for reprof"—hithorto, perhaps, to some extent wanting. In refutation of any who should hereafter be disposed to deny the need of health-legislation, it will but be necessary to point to the following conclusions:—That "mortality is greatly increased by want of sanitary provisions: a marked reduction of death-rate has followed the improvement of drainage and sewerage, and the supply of other obvious sanitary requirements. Many causes of disease are preventible; and much chronic weakness and incapacity for work are the result of sanitary nogligence and want of the ordinary requisites of civilised life. A large proportion of the population, both in town and country, is habitually drinking polluted water. In many places accumulations of filth are widely vitiating the air. A considerable portion of the working classes is debilitated, and thrown into sickness and poverty, by a tainted atmosphere and unhealthy dwellings. No classes are exempt from these ovils. Overcrowding is the cause of much physical as well as moral evil. Whether smoke be more or less noxious, and more or less consumable in various circumstances, may admit of argument; but there can be no doubt that it is permitted in excess, from unpunished neglect of possible and pre-The importance of the subject cannot be too scribed means. highly estimated. The constant relation between the health and vigour of the people and the welfare and commercial pres-perity of the State, requires no argument. Franklin's aphorism, public health is public wealth, is undeniable. But what is more important still, is the close conservion between physical and moral pollution; it is significant that the Registrarand moral pollution; it is significant that the Registrar-General's returns show that the 'black country' presents the blackest calendars to our assizes, a fact which practically illustrates the effect of filth and sunless atmosphere on the minds as well as the bodies of the sufferers. The mero money-cost of public lith-health, whether it be recknowled by the necessarily increased expenditure, or by the loss of the work both of the sick and of those who wait upon on some work mone or side sick ann or those who wait upon them, must be estimated at many millions a year." And, after all, what proportion of relative value does the "money-cost." I have proportion of relative value does the "money-cost." Having reassured ourselves as to the importance of the antiject, let use ow hence comes the failure in the existing laws.

Having reassured curselves as to the importance of the sanject, let us see whence comes the failure in the existing laws. In the first place, the law itself is confused. Little is needed to convince of that beyond a glames at the catalogue of the statutes in our analysis last week. The Public Health Act of the convince of the beyond a glames at the catalogue of the statutes in our analysis last week. The Public Health Act of the convenience of law, and, with other Acts, local and general, contribute to the fatal result that 'the law is frequently unknown, and, even where studied, is found difficult to be understood." The optional principle alone is cought to account for the very partial administration of the law; but add to this the confusion of "authorities" designated for special purposes by each new Act, and the wonder is, not why the measure of success has been so small, but how any only the confusion of "authorities" designated for special purposes by each new Act, and the wonder is, not why the measure of success has been so small, but how any only the continuous continuous are classed together, or distinguished, with no apparent regard to any real affainty or difference. The removal of nuisances, for instance, seems to have been considered a work spart from local government; and the prevention of epidenio dissease, a work unconnected with the suppression of its causes. Such distinctions without differences, the result of causillegislation, regardless of what had preceded, are far more than merely lilingical or unmensing—they cause grave misunderstanding.

regardies of what had preceded, are far more than merely illigified or unmenting—they cames grave misunderstanding and the process of the pro

prevent by action in time, rather than to remove when too late, after the population has been diminished by death, weakened by disease, and demoralised by the panperism and social de-gradation which over accompany a low physical condition."

Although thus speaking of some of the evil results of tho system which relies on local action for the initiative, the Commissioners do not attempt to blink the fact that there are two missioners do not attempt to bink the fact that mere are two sides to this, as to every other question. Indeed, the point is of an importance far beyond the question of sanitary reform, being really at the root of the whole controversy between the advocates of local administration on the one hand, and of centralisation on the other hand. But the summing up of the Report upon this point appears, on the whole, sound. We are reminded that, in arguing the question, "it is necessary to balance the incouvenience which may arise from the unfortunate exercise of discretion by the central anthority in assign-ing urban powers against the far more inconvenient consequence of impeding its freedom by restrictions which may prove an impediment to the introduction of more perfect government. On the whole, it would appear more prudent to trust the Minister, who will be obliged in Parliament to defend his con-duct. Undue exercise of authority will always be restrained duct. Undue excrese or aumority win aways we resistance by the natural reluctance of every Minister, in a country with representative institutions, to place new duties on an unwilling community. The Minister will also feel that no system of law or administration can be so efficient when imposed from without as when voluntarily adopted by those whose interests are most closely concerned. Unchecked by conditions, the Minister will probably move too slowly; checked by restraints, ho may

and unusual exigency. These arguments lead the Commissioners to the inevitable conclusion that the optional principle must be done away with, and to the recommendation which they have embodied in the following resolution :- "That, instead of the present scheme of law, under which it rests to a great extent with the localities to adopt, wholly or partly, or to remain without, the provisions of the existing general Acts, it is expedient that there should be no option left with the localities to adopt or escape from the provisions of the new statute, but that, with necessary exceptions, they should be applicable everywhere.

hesitate to move at all, except under circumstances of extreme

Reverting to the decisious arrived at by the Commissioners to the effect that the existing law is confused and incomplete, we find that confusion and incompleteness to arise mainly from the following causes :-

"1st. There are many statutes, some to be read together, some in repetition of each other, some for special cases only, and some in practical conflict.

"2nd. Much is of optional, of uncertain, and of partial application.

3rd. There are many local and private Acts, producing want of uniformity.

"4th. The provisions themselves are incomplete."

The natural result is that the Commissioners recommond the reduction of the present series of enautments to one consoli-dated statute, and they add—"We have no hesitation in recommending, as the only satisfactory preliminary to this necessary consolidation, the total repeal of all the Acts to be consolidated, so that the whole law may be seen clearly arranged in one statute, and that nothing in that statute should be laid down merely by reference, but that all should be ex-pressly stated in the statute itself. We even recommend that if it be necessary to ongraft any parts of the various 'Clauses Acts,' they should always be set out in extense either in the text or in a schedule to the statute.

"Theu comes the task of perfecting what is defective, and a lding what is still further required; making obligatory what is now permissive, and general what is now applied without

reason only to particular localities."

This recipe appears simple and complete, and suggests that the same Commissioners might with advantage take in hand some few other Acta—say, for instance, the Lunacy Acts, and subject them to similar improvement. Its general adoption, however, would seem likely to be a sad blow for the bookmakers, as obvinting the necessity for "notes and references," and to the lawyers. But, beyond these two classes, it would probably be difficult to find a voice raised either for the retention of the present legislation or for its tinkering by means of amending Acts.

(To be continued.)

UNIVERSITY OF ST. ANDREWS.

EXTRACT FROM THE REPORT OF THE SENATUS ACADEMICUS OF THE UNIVERSITY OF EDINBURGH, ON AN APPLICATION TO HER MAJESTY IN COUNCIL BY THE UNIVERSITY COURT OF THE UNIVERSITY OF ST. ANDREWS, FOR AN EXTENSION OF THE RIGHT OF THAT UNIVERSITY TO OBANT DEGREES IN MEDICINE WITHOUT UNIVERSITY STUDY.

"Ir had been represented to Sir James Graham that, when a general Practitioner of talent and success in Medical practice. who had not so studied in youth as to be qualified to obtain a Medical degree from a university of repute in the ordinary way, desired to exchange general practice for the position of Consulting-Physician, there was no way for him to get the necessary title of Doctor except by repairing to St. Andrews, or to King's College, Aberdeen, where at that time a system of graduation the same as at St. Andrews existed in a less degree; or to a Continental university in the custom of selling its diploma of Doctor of Medicino without either residence or examination. Sir James Graham therefore proposed that the Scottish universities, who had been more faithful to their trust, should grant annually, in all, ten degrees of Doctor tolicensed Practitioners of forty years of age, after a thorough examination on all branches of the practice of Medicine.

"This scheme the Universities Commissioners adopted, but confined the privilege to St. Andrews alone, and, for preventing any abuse of the privilege, enacted the regulations now complained of by that University.

"The University of St. Andrews now says that its Medical

degree has become a respectable one, and much in demand; and the conclusion come to is, that the limitation put upon it should be withdrawn, that the University should be authorised mouse or windows, that the University should be authorised to grant the degree of Deoter of Medicine without limit as to number, and to licensed Practitioners of only five years standing, and still without any university education.

"To this proposal the Senatus Academicus of the University of Edinburgh have to object—

"1. That the main cause of the credit recently attached to the St. Andrews degree is the very limitation which the Uni-versity desires to break through; this limitation having the effect of enabling the University to select able candidates

"2. That the number of graduates passed on the St. Andrews plan is amply sufficient for the wants of the Medical Profession, as explained above, and for the good of the community.

"3. That the proposed right of unlimited graduation, with out university study, and at an age really only three years later than that at which students at the other universities now retoma mas at which assume at too other universities how Ne-orior the regular university degree of Doctor, after at least six years of careful study and varied server examinations, would prove a fearful blow to that university education, which has hitherto opened to Scottish Medical graduates a welcomo reception, and the way to Professional success, in all quarters of the world.

"4. That if university graduation, without university educa-tion, be desirable on a more extended scale in Scotland, it is not easy to see why tho duty of conferring these degrees should not be confided rather to the Universities of Edinburgh, Glasgow, and Aberdeen, which have each a full staff of Examiners, academical and extra-academical, of the first rank, than to a University which has no Medical school, and can only secure a staff of Examiners by drawing them from the schools of the other universities.

"5. That a serious objection, however, to such a course

"o. nas a serious oujection, nowever, to such a course would obviously be the certain injury which graduation on such "6. That if this result be admitted, as it obviously must be, the Senatus Academicus of the University of Edinburgh believe that the effect would be still more injurious were such a duty committed to a University which ough have no interest adverse that the effect would be still more injurious were such a duty committed to a University which ough have no interest. in checking over-facile graduation, but quite the reverse, and which has already shown in its past history that it is unworthy of having intrusted to it a privilege which can be used in so

dangerous a manner.

"The Senatus Academicus, therefore, humbly pray your Majesty, that your Majesty in Council do not approve of the alteration in Ordinance No. 19 (St. Andrews, No. 3) of the Scottish Universities Commissioners, as craved by the Court of the University of St. Andrews; and that, if so advised, your petitioners may be allowed to appear by Counsel before a Committee of your Majesty's Most Honourable Privy Council in

"And your petitioners will ever pray, &c.
"Signed in the name and by the authority of the Senatus
Academicus of the University of Edinburgh the eighth day of March, 1871. "A. GRANT, Principal

DEEP-SEA EXPLORATIONS IN THE MEDITERRANEAN.

On Friday, Dr. Carpenter gave a lecture at the Royal Institution, in which he described the results obtained by the expedition of last autumn for the purpose of deep-sea dredging and exploration in the Mediterranean and Straits of Gibraltar, The results obtained in the expedition of 1869 were so important that the Council of the Royal Society urged upon the Government the advantage of continuing the investigations over a different area: and hence the Porcupine, still, as before, under the command of Captain Calver, R.N., was again placed at the disposal of the explorers. The work of the expedition was divided into two cruises—the first to examine the deep-sea bottom between Falmouth and Gibraltar; the second to make the like examination of the western basin of the Mediterrancan. between Gibraltar and Malta, and to determine its physical and between tributions and sacks, after ottermine the physical and Modiferrances current. The first cruise vas under the direction of Mr. Gwyn Jefferies, assisted by Mr. Lindahl, of Lund, and Mr. W. L. Carpenter, assisted by Mr. Lindahl, and Mr. P. H. Carpenter, resisted by Mr. Lindahl, and Mr. P. H. Carpenter, resisted by Mr. Lindahl, and Mr. P. H. Carpenter, resisted by Mr. Lindahl, and Mr. P. H. Carpenter, resisted by Mr. Lindahl, and Mr. P. H. Carpenter, resisted by Mr. Lindahl, and Mr. P. H. Carpenter, assisted by Mr. Lindahl, assisted by

expedition, but was prevented doing so by illness.

Dr. Carpenter's lecture was conflued to an account of some of the results of the second cruise, and he first spoke of the of the results of the Second cruise, and he hast spoke of the barrenness of the Mcditerranean bottom in respect of animal life. He then proceeded to describe the general formation of the sea-bed in the parts visited, and exhibited diagrams of the marrow portion of the Straits of Gibraltar, and diagrammatic sections, first of the length of the Mediterranean from Gibraltar sections, area or the length of the Mediterranean from Gibraltar through Multa to Egypt, next of the Straits from Cape Tra-falgar to Cape Spartel, from Europa Point to Apes-hill; and again, longitudinally, from one of the foregoing sections to the other. These sections showed that although the Mediterranean is generally nearly 2000 fathoms in depth, it is divided by a ge, of which the island of Malta forms part, into an eas and a western basin, and that its depths are cut off from those of the Atlantic at the Straits, where the bottom is nowhere deeper than about 200 fathoms. The temperature of the Mediterranean is altogether exceptional; for whereas that of the North Sea and the Atlantic steadily descends and ap-proaches the freezing-point at about 2000 fathoms, the general deep-sea temperature of the Mediterranean does not fall below about 55 degrees, which is attained at about 100 fathoms. The cause of this was explained about 100 fathoms. The cause of this was explained to be that the surface water, heated by the sun, was also once botter and heavier than the strata below, ank down, carrying its latent with it. Without some compensating influence, the continued action thus produced would tend to a regular and steady increase in the degree of saltness of the water, especially as the rate of evaporation is in excess of the supply brought in by rain and rivers, and therefore leads to a steady surface current inwards from the Atlantic. The lecturer showed, however, that beneath this surface current there would be another in an opposite direction.

A given column of Mediterranean water concentrated by evaporation, and with its loss in point of quantity made good by the Atlantic, would be heavier than a column of Atlantic water of the same dimensions, and would displace the latter by pressure. The existence and direction of the deep outward current thus produced had been experimentally determined by an ingenious current-drag, contrived by Captain Calver; and the demonstration was on the whole complete that the sinking water, concentrated by evaporation, was thus so borne outwards through the Straits that the concentration had no tendency to exceed a certain degree. The Mediterranean receives from its river feeders, especially from the Rhone, a vast amount of mud in a state of very fine division; and Dr. Carpenter found the turbidity of the deeper strata to be very marked, and to be due to the presence of particles so small that they could scarcely be removed by filtration. He believed

these particles were the cause of the absence of animal life at these particles were the cause of the absence of animal into agreat depth, and that they would act by mechanically clogging the gills or other respiratory membranes of any deep-see fauna.

He referred to Professor Tyndall's electric light test of the presence of fine particles, both in the water of the Mediter-ranean and in that of the Lake of Geneva, and quoted a marine engineer to the effect that the incrustation formed in boilers used in the Mediterranean consisted not only of salt, but also of very finely-divided mnd. Geologists were aware of the scarcity of fossils in strata that had been formed by the

deposition of extremely minnte particles.

The lecture was illustrated by a very ingenious experiment for showing the course of equatorial or polar currents respectively, and by many maps and diagrams. It attracted a very large audience, and Dr. Carpenter was more than once interrupted by applause during its delivery.

REVIEWS.

What is Malaria? And Why is it most Intense in Hot Climates?
By C. F. Oldham, M.R.C.P.E., M.R.C.S.L., Assistant-Surgeon H.M. Indian Forces; late in Medical charge of Dalhousie Sanatorium. 1871. London: Lewis. Calcutta: Wyman and Co. Pp. 186.

Trus is a question of vast importance, since malarious diseases have a powerful effect in checking the spread of Europeans over a large portion of the globe, and (as our Army Medical Reports testify) prevail to a terrible extent in our Indian possessions. Even in singularly healthy seasons, one man in three of our British troops in India is attacked, and individual regiments, even when stationed in healthy localities, often exhibit a higher ratio of illness. Thus, at Scalcote, the 38th exhibit a higher ratio of imises. I flus, at Scalcole, the 36th Regiment had 554 cases in a strength of 1004 (Army Medical Report, 1867); and it is an historical fact that every officer and every man of 8ir C. Napier's army of 17,000 soldiers was attacked with fever in the Scinde campaign.

Unfortunately it is a question not easily answered; and a host of Indian Medical officers have offered suggestions as to the origin and cause of the so-called "malarious diseases," none the origin and cause of the so-called "malarious diseases," more of which are allogether satisfactory. Sir John Pringis, from prevailed in the British army serving in the Netherlands in 1743-48, concludes that they are due to "the heat and moisture of the air." Lind, who saw a great deal of remittent fewer in Bengal in 1762, while regarding malaria as due to vegetable decomposition, adds that "violent heat is a powerful exciting cause of this fever," and he observes further on that " sudden cold, in hot marshy countries, is to be reckoned next to the marsh miasmata, as the strongest exciting cause of this disorder; and many are of opinion that cold alone, provided the body is sufficiently predisposed is sufficient to generate a disorder perfectly like that which is produced by the marsh We quote Lind's opinion on this subject, because miasmata." We quote Land's opinion on this supject, oceause, as we shall presently see, it is in close accordance with the latest riew that has been propounded. Ferguson, Morebead, and other high authorities sareline the production of malaria to the prologod action of the sun's rays on a marshy surface; the poison being most intense when the drying of the ground begins. Farkes, while laying great stress on the internal seattlement of the proposition of the sun's rays on the proposition of the propositi predisposition, says that the external cause of malarious fevers is presumed to be decomposing vegetable matter, derived from a moist and putrescent soil. Sir Ranald Martin, on the other hand, ascribes the origin of malaria to electricity, and consider that ferruginous rocks and soils are intimately connected with its production. M. Armand, whose experience is based on the fevers of Algeria, agrees with Sir Ranald Martin in rejecting the idea of a specific marsh-poison, and ascribes these diseases to "thermo-electro-hygrometric influences." Lastly, we come to the germ theory, which was first distinctly propounded by Dr. Salisbury, an American Physician, in 1866. He finds the cause of malarious fovers in the spores of gemiasma, a form of algoid vegetation resembling the palmelle. He states that he found these vegetations abundant in marshy places, where the residents were subject to intermittent fever, and he likewise detected them in the sputa and urine of patients suffering from that disease. On visiting the spots at which these vegetations were most abundant, he experienced a dry, feverish, constricted feeling in the mouth, fauces, and throat, which soon became parched and hot. There was irritation of the bronchial tubes, parched and hot. There was irritation of the bronchial tubes, and a constant desire to hawk and spit—symptoms which lasted two hours, and which he referred to the inhalation of malarial matters. He also found that the cryptogamic spores rise and

are suspended in the cold, damp exhalations from the soil, after the sun has set, and that they fall again to the earth after the sun has risen, and that the day air of malarial distriets is quite free from these spores, and never gives rise to

Professor Nièmeyer has "no hesitation in saying decidedly that marsh miasma-malarja-must consist of low vegetable organisms, whose development is chiefly due to the putrelaction of vegetable substances." He is apparently unacquainted with Or September substances. The is apparently unacquaintees wan Dr. Salisbury's memoir, as he observes that "no one has seen malaria spores." We may add that, during the last few months, an Italian Physician, Dr. Bolestro, asserts that he has found ague germs-similar, apparently, to those discovered by Dr. Salisbury, of whose researches he seems ignorant-in the water of the Tuscan marshes.

After observing that all these theories, excepting that of Lind, are untenable-or, at all events, want confirmationthe author proceeds to develope his own view, that maria, as a specific poison, does not exist, but that the cause of the disease attributed to it is chill—or, in other words, the sudden abstraction of animal heat. He arrives at and supports this opinion partly by the results of "careful observation while serving for some years in different parts of India, in localities differing greatly in physical aspect and in climate," and partly from the evidence that exposure to cold is not only capable of causing relapses of malarious fever, but also of producing the disease in its primary form. In support of the latter view, he quotes the case of "a gentleman who was attacked with intermittent fever, for the first time, in a very healthy part of North Devon, from sleeping on a cold, damp floor, in a crowded hotel, while nursing a brother who was very ill from another complaint. There was no suspicion of malaria in the neighbourhood, and no one else was attacked. This gentleman has several times since suffered from recurrences of the same complaint after exposure to cold or wet." He also adduces M. Brachet's wellknown experiments (referred to in Sir Thomas Watson's " Lectures '). After seven successive prolonged nocturnal baths in the River Saone, he was attacked for the next six nights, at the bathing hour, with all the phenomena of a true paroxysm of egue. Further evidence is afforded by the statement of Dr. Mouat that, while serving in the Madras Presidency, he found 1372 soldiers attributing their illnesses of various kinds to cold, while only sixty-two ascribed their disorders to exposure to the sun.

Dr. Oldham corclades an instructive chapter on "The Geography of Malaria" with the remarks-

That the cause of malarious disease exists in almost every part of the habitable globe.

That in cold countries it prevails only in low and swampy spots; but, as the heat of the climate increases, it becomes

more generally distributed.

That, though malarious disease may prevail at any season in those countries in which winter occurs, it is most prevalent in autumn; while, where there is no winter, the rainy season

is that in which it becomes general.

From the chapter treating of "The Connexion between the Forest and Malaria," we extract the following paragraph on the hygienic value of trees:—

"Trees in themselves are harmless in temperate climates, and are highly beneficial in the tropics, where they tend to moderate are many consectant in the troptes, where they tend to moderate the intense heat by sheltering the ground from the rays of the sun, and where they constantly supply the place of house or tent to the weary or benighted traveller. . . . Many cases have been cited to prove that belts of wood have been sufficient to arrest the course of malaria, and it has been suggested that, by an extensive system of planting, swamps, moors, fens, and marshes may be rendered salubrious. The trees in the forests of Burmah, the Soonderbuns, the Terai, or the forests of Oronoco do not, however, seem to produce any such effect. The fact is, that trees and shrubs alone will not render a marsh healthy, nor will they make a well-drained country unhealthy. The cause of malaria lies far beyond the trees." (P. 35.)

In connexion with this subject, we may remark that it is thard to understand why the humid and swampy banks of some South American rivers, as the Orinoco, Magdalena, are intensely South American rivers, as the Orinoco, magnanens, are memery malarions, while the equally swampy and wooded banks of the Amazon are comparatively healthy. Dr. Oldham is decidedly opposed to the view supported by many writers, including Dr. Morchead, that trees attract malaria. "Far from this leding the case, the safest place at night in a malarious district is in a tree or at the foot of it." European travellers in India, European travellers in India, whenever they can do so, pitch their tents in a grove.

In his chapter on "The Characteristics of Malarious Situa-"the author directs attention to a subject of vast importance in India-viz., the influence of artificial irrigation the public health. In Northern India it has been found that excessive irrigation of any land, however highly cultivated it may be, produces intense malaria. The result of Dr. Oldham's personal observations, which coincide with those of engineer officers of great experience, shows that there is little foar of malaria being produced by irrigation, so long as the supply of water is not greater than can be absorbed by the soil, and any surplus that exists can be carried off by effective soil, and any surplus that exists can be carried on by the drainage. When, however, the supply of water is in excess, and the ground remains saturated, malaria is the certain result. "In Southern India," says Major-General Cotton, "we know nothing of the ill-effects to health from irrigation;" and riescultivation, which requires that the soil should be covered with water, presents a parallel case. In Northern India it produces malarious diseases; while in Southern India it is considered to improve the health of the locality—the difference being due to the fact that a degree of humidity of the soil, which is sufficient to cause postilence in the chilly autumnal season of Northern India, is scarcely, if at all, injurious in the hotter, moister, and more equable climate of Southern India.

In all times and in all climates there has been a general belief in the protective action of fire against malaris. At the present day it is recognised by the natives of Central Africa and the Union Coast, of Venoruela, India, Ceylon, and an advance of the Coast of Venoruela, India, Ceylon, and malarious countries, invariably, unless when prevented by strategical reasons, keep up large fires throughout the night, Fire, according to our author's views, by maintaining warmth at night, is "the antidote at once to malarie and the action". at night, is "the antidote at once to malaria and to chill." Dr. Oldham fully endorses Dr. Livingstone's view, that "the best preventives against fever are plenty of interesting work to do, abundance of wholesome food to cat, and to be well housed and well clothed." He further recommends the moderate use of fermented liquors, and protests against the absurd opinion that sickness in the tropics is confined to drunkards. Drunken-ness, he maintains, only indirectly increases the liability to malarious diseases, by causing that reckless exposure to climatic influences to which men in a state of intoxication are so subject. "The steadiest man does not escape fevers; while, if he be fortunate enough to avoid exposure, the drunkard does not suffer more from malarious diseases than his sober comrades." With this judicious remark we close our notice of Dr. Oldham's instructive volume.

. It will strengthen Dr. Oldham's case, and be doing an act of justice to an independent worker, if we add that a precisely similar line of argument, supported by the same class of facts, is brought forward by the Italian Physician Minzi in his treatise "Sopra la Genese delle Febbri Inter-mittenti," Roma, 1844. He contends that fluctuations between intense mid-day heat and evening damp-chills rob the body of the power of resisting cold, and that the ague fit is a reaction from chill. Fires are the preventive; but how, he asks, can a fire neutralise poisonous air ? He also denies the specificity of the action of quina.- Ep.

NEW BOOKS, WITH SHORT CRITIQUES.

Lecture on Small-pox, Vaccination, and Revaccination. By JOHN DIXON, M.D., L.R.C.P. Delivered at St. James's School, Bermondsey, on Thursday evening, February 23, 1871.

. Popular addresses by competent persons appear a proper mode of counteracting the noxious pamphlets which the anti-vaccination party circulate among the uniformed. Dr. Dixon's lecture is well adapted for this purpose, and we heartily com-med it to the Profession and to sanitary boards for general distribution. It is printed upon a broad sheet of thin paper, and only costs a penny.

Compulsory Vaccination. By MEDICUS.

.. It has fallen to our lot to read a great deal of antivaccination trash; but for barefaced impudence and distortion vaccination train; out for carciaced impudence and dissortion of facts this pamphlet oxecle all that we have over secu. If, as is pretended, it was really written by a Medical man, we can only express our surprise that he should have sent us a copy for notice. He may well be assamed to affix his name to it.

GENERAL CORRESPONDENCE:

USE OF VACCINE LYMPH FROM ADULTS. LETTER FROM DR. EDWARDS-CRISP.

To the Editor of the Medical Times and Gazette. SIR,-Pray allow me to correct an error quoted in your journal of last week, arising probably from careless writing. The numbers should be—out of 42,071, 35,484 were under 15, not 13. Of these, it should be noted that 10,368 were under 1 year, and

As regards the lymph taken from adults after secondary vaccination, when the vesicle is perfect and the subject healthy, I am not anxious to attach too much importance to my own opinion, as my experience, compared to that of many, is of little value; but, seeing that cow-pock in the cow occurs spontaneously (as far as I know) only in the adult animal, and knowing that many vesicles are as perfect in the adult man as in the infant, I see no reason why, in times of scarcity of lymph and danger of infection, matter should not be taken from adults; but I leave this question—a very important one—to your more experienced readers. I am, &c.,

EDWARDS-CRISP, M.D.

29, Beaufort-street, Chelsea, March 11,

REPORTS OF SOCIETIES.

THE PATHOLOGICAL SOCIETY. TUESDAY, FEBRUARY 21, 1871.

Mr. HILTON, F.R.C.S., President, in the Chair.

(Concluded from page 294.) Dr. Moxon next exhibited two specimens illustrating the Change of Diffused Miliary to Softening Grey Tubercle. The connige of Diringed almary to Softening Grey Tubercle. The first specimen was from a young man who came into Gny's with tuberculous pyclitis and cystitis. He lay on his back confined to his bed for two months before death, and latterly signs of chest-complication appeared. A distinct gradation of small grey tubercles into cavities is seen with all inof small grey tunercies into cavities is seen with all in-termediate stages of yellowness preceding the softening, the these are not "true" tubercles. It may be said that the tubercles have arisen secondarily to the cavities, by a mode of local infection comparable to the infection we now are so familiar with no map and the tubercles have a superiments. Here familiar with in the eclebrated inoculation experiments. Here
the trueness of the tuberclo is shown by its being part of a
general diffused tuberculosis, with all the characters of the socalled "general tuberclo," secondary to the unbercular pyelisis;
and the idea of a local infection will not be entertained by anyone who observe the very gradual change from the small
cavilies to the grey tubercles, and the very alight degree of
difference between the successive stages of change. The text difference between the anocessive stages of change. The uext-occurred in a man who died of gangreno of the foot, from ex-posite while weakened by phthiass. His lungs show the structure region of the stage of the stage of the stage of the stage of granular paucunois." The granules are seen to be tubercles receding and shrivelling, making clusters of wasted minute knots, which knots form at the surface of the cluster, and waste as they are carried, as it were, to the centre, by the rise of new tubercles outside them. Thus large masses of tubercle arise, and the black change that accompanies all chronic active lung and the once change that accompanies all chrome active lung disease-comes about and defaces them. In both patches the centre is occupied by old cornified tubercle. But the outer part is one is composed of recent grey tubercles, and in the second the otherwise similar patch is composed of soft yellow tubercles, the two being evidently varieties of the same change.

tubercles, the two being evidently varieties of the same change. Dr. Moxov then exhibited specimens of Larhacous Spiene and Kidneya, Syphilitic Orchitis, and Subacuto Pleuriay with Pneumonia. They were from a man, who, when carrying a sack of barley, suffered fracture of cervical spins by as a sub-wing what a great degree of muscular excrition a man so diseased was capable of. The pleurisy was certainly input recent; it had a new surface of soft lymph, and the roughness of this, with its transverso ridges, showed that rubbing must have been rather vigorous. The state of the kidneys and spicen and liver certainly made his muscular power remarkable. What he brought the case to show was the

kind of pneumonia which is seen in the lung. The condition kind of pacumona whice is seen in the lung. The contribution is not so plain now as when fresh; then it was remarkable in the particular of the particular and the particular advancing curve of a spreading curption. The belief that pacumons is caused by spyhils has its advocates. The question is discussed rather fully by Lancereaux. A white hopatisation was the chief condition mentioned in a series of hepatiastion was the chief condition mentioned in series of cases of infantile symbilis in Virchow's Arthi-Authors on "Fibroid Phthisis" addace symbilis among the other condi-tions. He would say that in the relation of symbilis to lung disease these propositions are true: That phthisis will run through its course in symbilisie in an ordinary way; that a chronic white hepatiastion, with tendency to circumseribed gangrene, occurs especially, but not only, in persons ordinally symbilite; and, thirdly, that symbilitie gumma occurs in small quantity in one cases. From these present and other cases, I believ that criminate desarron the plaura, such as we seen exhibitive resulting the conditions of the conditio

here, and insucous careius passumous, occas specialities people.

Mr. Dz Mossax exhibited a very Large Tumour, removed from the axilla of a man aged 45. The patient had been in good health until a kind of hard odems made its appearance all over the body. A tumour appeared in the needs, but subsided, After that, one began on the side of the chest, which became very large, but not otherwise inconvenient, being neither tender nor painful. It was rather loose and soft in the centre; when removed, it was found to be firmly adherent in certain parts.
The man did very well. The tumour was a lymphadenoma.
Others had been described as accompanied by wasting disease; it was not so here. Still, there must have been some lymphatic

affection with the cedema.

Mr. DE MORGAN also showed a Tumour of the Jaw, removed from a lady aged 40. It began in 1869, and another

removed from a lady aged 40. It began in 1809, and another appearing in 1870, both were removed with a portion of the jaw, as her health, which had previously been good, rapidly deteriorated. It was found to be a rapidly-growing florosa tumour, with unclei and some myeloid cells.

Mr. Waoraryrs showed an exceedingly rare specimen of probable Fibrous Tumour of the Heart. It was removed from the body of a child turns emoths old. The child was well developed and apparently healthy, and there were no symptoms which drew utention to the beart, but for some weeks before its death the child had rather frequent fits of syncope, and in one of these it suddenly died. The tumonr was globular, about two inches in diameter, pinkish-white on section when first examined, and of a very firm, uniformly fibrons texture. It was situated in the substance of the septum ventriculesum, and projected equally into both cavities, but the muscular structure of the septum was still spread out over the tumour. Microscopically it appeared to be mainly composed of well-developed white fibrous tissue, but owing to the time it had been white fibrous tissue, but owing to the time it had been immersed in spirit, it was difficult to determine whether any other structures were associated with this tissue. The history of the case and the microscopical characters proved it not to be the simple organisation of inflammatory effusion or bloodbe the simple organisation of inflammatory effusion or blood-clot, nor did it appear to be malignant, but rather a simple fibrous tumour. Mr. Wagstaffe said there was only one case on record in the Transactions of the Society of a simple tumour of the heart not parasitie in origin, and that as a specimen of fibrous tumonr of that organ it was an unique sace. Its occur-rence in a child three months old, without any interference with nutritions, mudel it a case of extreme clinical interest.

with nutrition, made it a case of extreme clinical interest.
Mr. Hrawr Monans exhibited a specimen of Strangulated
Femoral Hernia, with reduction sen mease. The subject of this
occurrance was a widow, aged [8, who had for some time been
suffering from brunchitis and general falling of health, and was
admitted into the Middleset Hospitalon Weinesday, January 18,
She stated that on Sunday, January 18, while coughing she
felt something give way in the right groin, and that during the night and the next morning she suffered considerable pain in night and the next morning and surrect considerator plan in the lower part of the abdoman, and comited several times. On was detected, and its reduction by taxis and afterwards by ice statempted; again, during the day of Wednesday, taxis was employed by two Medical men, but without producing any diminution of the tumour. She was then sent to the Hospital. On her admission the swelling in the right groin was the size on the summeron the swelling in the right groin was the size of a large pigeon's-egg; it gave no impulse on coughing, and she was sick, the vomited matter being stercoraceous. Chloroform was at once administered, and Mr. Lawson, in Mr. De Morgan's absence, proceeded to operate. Before doing so, however, he for a few moments tried the effect of taxis with the aid of chloroform, and causing no alteration he forthwith cut down upon the tumour, but without opening the ago

322 Medical Times and Gazette. After freeing all constrictions ontside the neck of sac and gently During the night and next morning the symptoms of strangulation continued, so that at midday Mr. Lawson deemed it advis-able to reopen the wound and make a careful examination of the parts. In doing so his finger passed into a pouch, which he immediately felt was not the peritoneal cavity, and in this he detected a small tumour; no coils of intestines, however, impinged against the finger. As it was conclusive, therefore, that the previous reduction had been one of reduction en bloc. and that the neck of the sac was still constricting the contained gut, a free incision was made into Poupart's and Gimbernat's ligaments, and the tumour hooked up from behind the pubis into the canal. The sac, which bore a strong resemblance to omentum, was laid open, the stricture at its neck divided, and omentum, was laid open, the stricture at its neck divided, and a small coil of deeply-congested bowel returned into the peritoneal cavity. The sac was then ligatured at its neck, and the periton lead to the periton lead to the control of the periton lead to the control of the on passing the finger through the wound in the crural region, it could be moved readily about in a large cavity, in which no intestines could be felt, and the walls of which were granular and rough to the touch. This reached upwards for about two inches behind the right rectus muscle, downwards to a coninches behind the right rectus muscle, downwards to a con-siderable depth into the pelvis, outwards towards the iliac fossa, and inner behind the pubis and in front of the bladder; the lower end of the rectus muscle was lacerated, and projected into it from above. The posterior wall of this large pouch was seen, on opening the abdomen, to be formed by the perioneum detached from this part of the abdominal and pelvie walls, strengthened by the subperioneal fat and fascia, and faving in it, below, the front surface of the bladder, which latter organ with the uterus was displaced backwards towards latter organ with the uterus was displaced backwards towards the sacrum. No trace of peritonities existed, but the ileum, which was lying free within the peritoneal cavity, was con-gested in two places. One portion—an inch and a quarter in length, and barely involving the entire circumference of the bowel—was of a deep port-wine colour, excepting at the points of stricture, where the surface was soft and yellowish; the other portion, similar in extent and about eight inches above the former, was much less deeply congested. On the inner the former, was much loss deeply congressed. Un the nince surface of the pertoneum, corresponding to the point of ap-surface of the pertoneum, corresponding to the point of ap-sured the pertoneum control of the pertoneum con-land evidently formed the neck and orifice of the hernial ac-t it is impossible to say what amount of taxis had been em-ployed before the patient was brought to the Hospital, but the force used after her admission and, at the time of the reduction was not only not great, but very slight, and it was seen at the post-mortem examination that the connexion between the deep layers of the abdominal parietes was very loose and easily

destroyed. WAREN TAY exhibited the Contents of a Ranula made up of fatty masses, removed from a man aged 55. years ago he had a small tumour, which he would not allow to be touched. When he returned to the Hospital it was as large as an egg, and freely fluctuated. A piece of the wall was removed, and glairy matter and five fatty lumps came away; chemically, these resembled adipocire.

CLINICAL SOCIETY OF LONDON.

FRIDAY, FEBRUARY 24.

Dr. W. W. GULL, President, in the Chair.

Mr. Gant read a paper "On the Occlusion of Arteries after Operation," and said that the primary object of this paper was to lay before the Society the author's observations on the process of occlusion in arteries after acupressure, with the view process of occidence in arteriors more acqueensive, was not raw proper privile for the side proper privile and the proper privile for the side proper privile the courteness of the occurrence or supervention of secondary hemorrhage. This, although an inferential method of investigation, is obviously a more safe method than by submitting living patients to the risk of removing the needle experimentally, in order to gain the requisite practical knowledge by experience. The process of occlusion would appear to consist essentially

in the formation of a conical clot of blood, which soon becomes in the formation of a contest too of the formation of a contest too of the formation of a contest to the contes accompanied or followed by any deposition of lymph and adhesion of the coats of the artery at the said line, the arterial tunies remaining undivided by the compression temporarily applied. Compared with ligature and torsion respectively, the appare. Compared with ingature and not no respectively, the efficacy of acquiressure relies solely on the first provision for the arrest of hamorrhage, when the Surgical appliance, the needle, is withdrawn. In relation to treatment: a firm, fibrinous, and adherent clot-plug having been found to have formed within fire days, and in a main artery (the fennoral), formed within are days, and in a main artery (the remotal), that period would appear to offer a perfectly safe opportunity for withdrawing the needle. Ligature and torsion may, how-ever, be not less securely effectual than acupressure in regard to the non-occurrence of secondary hemorrhage, but, as to primary union of the flesh-wound, and also as to the prevention of pyremic infection, torsion has the advantage of not inducing sloughing of the end of the vessel, as by ligature; and it is superior to either of the other methods of treatment in not leaving any foreign body in the wound for however short a period, to possibly provoke suppuration.

Mr. CALLENDER asked if the clot in the first case was limited

by the collateral vessel or by the needle.

Mr. Arnort said that the statement that the ligatured portion of the vessel necessarily sloughed away had been refuted.

The number of cases where ligatures had been used without any suppuration supported this view. In more than one case he had seen the end unite to the other tissues, and remain as a ligament.

Mr. Banwell thought the risks of secondary hemorrhage

after ligature exaggerated.

Mr. B. HILL remarked on the rapidity with which fibrin was effused after the artery was compressed; and exhibited a specimen where there was a little plug and no clot. Mr. Gant spoke of the clot as the occluding agent; he thought the lymph was.

Dr. Anne asked Mr. Hill his reason for holding this plug to be fibrin, and not decolorised blood.

Mr. Hill said the history and appearances supported his view.
Mr. Haward said pyromia did not depend on the artery, but

on other causes. Age and condition were important. Mr. HULKE had secondary hemorrhage more frequently after acupressure than ligature. In two pyremia followed, and there was always a certain uneasiness with regard to the time of withdrawal of the needles.

Mr. GANT, in reply, said the short clot was due to the acu-Mr. Garr, in reply, said the short clot was due to the acu-pressure being less perfect than ligature as a mode of arrest. Dr. BROADENT read notes of a case of Paralysis of the Oph-thaline and Superior Maxillary Divisions of the Fifth Nerve, of the Fourth Nerve, and of the Branch of the Third to the Lorator Palpebre on the Right Side, from exphilitic disease at the base of the examinium. The interest of the case considered in the rarily of paralysis of the fourth acres, and in the illustration of anatomical diagnosis furnished by the simultaneous implication of this nerve and of the two upper divisions of the fifth. The patient, a farrier, aged 41, became an out-patient at St. Mary's Hospital on May 9, 1870. It had been aling for eight months, and under treatment nearly all that time. At first he had had pain in the right side of the head, worse at night, and for four months had had loss of sensation in the right side of the forehead and face, together with ptosis and double vision. The skin of the entire region of disptosa and double vision. The skin of the entire region of dis-tribution of the ophthalmic and superior maxillary divisions of the fifth nerve was insensible to all kinds of impressions. The cyclid could be raised only to a slight extent by the action of the occipito-frontalis. But though the double vision was very marked, there was no perceptible squint, and the pupils of the two eyes were equal. On more careful examination, it was found that the two images were not on the same level, one being below and to the right of the other; and subsequently, by causing the patient to look at an object in various ways, so that the eyes were successively directed npwards, downwards, to the right, and to the left, it was clear that the double vision was due to paralysis of the fourth nerve, the two images receding when the eyes were fourth nerve, the two images receding when the eyes were directed downwards, approaching each other when they looked upwards, the pseudo-image going far to the right, but coming to near the level of the image proper when the patient looked to the right, getting immediately beneath it when he looked to the left. There was no acknowledged sphillite history, but the sailow earthy complexion of the patient, a tubercular cruption near the right epvlow, and facts in his family history, were considered conclusive as to the sphillite origin of the disease, and toldied or potassium was given in doses of six grains, quickly increased to twenty grains, the result being rapid disappearance of all the symptoms. The lesion was con-sidered to have been a node or gunmy tumour of the fibrous structures surrounding the ophthalmic and superior maxillary divisions of the fifth nerve, in that part of their course between the Casserian ganglion and the exit of the latter through the foramen rotundum. Here the fourth nerve lies close to the ophthalmic, and sometimes joins it, so that a single lesion would cause the loss of sensation and the double vision: it does

would cause the loss of semantion and the double vision; it does not, however, appear how it could give rise to the ptosis. Mr. Carran said paralysis of this nerve was so painful on account of the vertigo and the position of the head. Prisenatic spectacles completely relieved the state. It thought injury to the cornea followed injury or disease of the inner division of the ophthalmic nerve only, the external portion having more to do with sensation.

Dr. Buzzard thought the diseased condition eminently tract-He had seen nothing in Medicine more remarkable than the effects of iodine on tertiary syphilis, save the influence of diet on scurvy. He thought the anatomical diagnosis good. He thought sufficient prominence had not been given to these syphilitic affections, for they often occurred when there was no history of secondary syphilis. He had often seen relapses when the iodide was too soon left off.

Mr. Harr thought the case interesting on account of its localised character; this was usual in syphilis. It was best to give large doses of the iodide at once.

Mr. Hulks: said that in most orbital syphilitic affections there was no history of secondary syphilis. They had a great tendency to recur. He had seen a woman in her fifth attack. The vertigo was a good rough test for this form of paralysis.

Dr. Lockhart Clarke said most such cases occurred without

secondary symptoms Dr. Anstre asked if anyone had noted the frequent connexion

between deep ulceration of the tongue and paralysis. Both

Mr. Hawano said the paralysis injat be due to disease of the surrounding tissues. There had recently been a case in St. George's Hospital, under the care of Mr. Hewett, of au orbital tumour which was supposed to be malignant, but yielded to iodide of potassium.

Mr. BARWELL thought the condition might be accounted for by periostitis in different portions of the nerve-tracts. The condition of the nestrils would serve to confirm this.

The PRESIDENT thought that, next to thrombosis and embolism, syphilitic affections of the nervons system were the most important additions made to our knowledge of late years. There was often thickening of the bones when the skin had not been affected. The general nutrition was altered, and there was often a peculiar smell about people affected with

tertiary syphilis.

Dr. Broadbert, in reply, said hereditary syphilis would account for a certain number of cases. He had noted two cases of paralysis with a poculiar smell.

OBITUARY.

DR. WATERFIELD, M.D., F.R.C.P.

Dr. WATERFIELD died on the 5th inst., at his residence, South-DR. WATERFIELD died on the oth inst., at his readence, South-street, Thurlos-square, at the age of 81 years. The deceased Physician was educated at Christ's College, Cambridge, as a member of which he proceeded B.M. in 1823, and M.D. in 1827. He was elected a Fellow of the Royal College of Phy-1827. He was elected a renew of the Loyau Conege of Anysicians, London, in 1830, and was chosen one of the censors of the College in 1833. Dr. Waterfield was formerly a Commissioner in Lunacy, and Consulting-Physician to several dispensions. saries in the metropolis.

In the Journal für Praktische Chemie, No. 17, 1870, In the Journal Jur Practische Chemie, No. 17, 1849, will be found a description of a new sulphide of mercury by Dr. Gideon Moore. It differs not from cinnabar in chemical composition, but it is without structure or cleavage, has a brilliant fracture, takes a high polish, and possesses a metallic lustre resembling graphite. Dr. Moore proposes to call this new mineral "Metacinnabar."

SEVERAL ladies residing in the neighbourhood of Wavertree have formed themselves into a committee, for the purpose of exercising supervision over the panper children who may be placed in homes, under the boarding-out system, in that locality. The committee has been recognised by the Poorlaw Board

MEDICAL NEWS.

APOTHECARIES' HALL. — The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practice, on Thursday, March 9, 1871 :-

Eder, George, General Hospital, Nottingham. Penkivil, John Hugh, Cranbrook, Kent. Pritchard, Richard Henry, Treborough, Somerset. Martin, Richard Johnson, Little Hulton, Laucashire.

The following gentleman also on the same day passed his First Professional Examination:—

Robey, Peter John, Queen's College, Rirmingham.

APPOINTMENT.

. The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

Cossan, Thomas, M.D., L.R.C.S., etc.—Physician to the West Norfolk and Lynn Hospital vice Dr. Williams, resigned,

ESGLAND. -On March 11, at Winchester, the wife of Dr. England, of a son, ESGLAND.—Un March II, at Windhester, the wife of Dr. England, of a son, PRACOES.—On March IS, at Ford Cottage, Churchinford, Devon, the wife A. L. Pencock, M.R.C.S., of a daughter.
PRART.—On March II, at Kensington, the wife of George Perry, Assistant-Burgeon Scote Fusilier Guards, of a son.

Ralfs. On March 13, at Bohomia-house, Turnham-green, the wife of Dr. S. Ralfs, of a daughter.

DF. S. Rauts, of a caugneter.

WILLIAMS.—Do March 6, at 286, High-street, Bangor, North Wales, the wife of O. T. Williams, Physician and Surgeon, of a daughter.

WILEIM.—On March 10, at Roxby House, Folkestone, the wife of J. F. Wilkin, M.R.C.F.F., of a son. Warour.—On March 9, at Southers, the wife of Dr. Wright, 93rd Sutherland Highlanders, of a son.

MARRIAGES.

MARHAMES.

CHERY—MAXWELL.—On February 3, at Christ Church, Cawapore, William Cherry, Assistant-Surg. on 5th Hoyal Irish Lancers, eldest son of William Cherry, Eq., Oreywell, New Ross, to Margaret Helen, third daughter of Hugh Maxwell, Eq., Cowapore.

Sairii —Sairii —On March 14, at Walcot Church, Bath, Pailip Henry Smith, 11th Regiment, to Georgina Harriett Bingham, daughter of Dr. C. T. Smith, Inspector-General of Hospitals Madras Army (retired).

DEATHS.

Banay, Dr. James Sasserstin, Royal Nary, of H M S. Tearry, at the Military Hospital, Bombay, of consumption, on February 2, aced 37.

CLARK, Musonery, daughter of the late Colonel Colin Dandas Graham, K.W., rejiet of the late Sim Midnes, B. Clark, Thysologian, Jamiles, and Cremary, on March 8, speed 1888; Halbert, C.D., O.C. H., Hannery, at Corpust, Dr. A. J. N. Nates and M. S. March 1888.

Cromarty, on March 8, aged 84. CONBEL, Dr. A. J. N., late 2nd Life Guards, at his residence, 19, St. George's road, Warnick square, on March 9. Fitzu atuncs, Gromon Liowei, F.R.C.S., on March 9, at the residence of his daughter, Upper Norwood, in the 6th year of his age.

ans unsqueer, upper norwood, in the such year of his age.

Occurrent, Storest Learsach, poungest soon of Arthur Gonille, L.R.C.I'.L.,
at 2, Mariborough-road, Bi. John's wood, on March 10, auc'd 4 years.
LER, Washinston, M.H.C.S.E., at Warriels, (Qoesensland, Australia, on
November 20, from anserviem of the aorta, occasioned by a fall from his
borse, in the Stin year of his age.

Mackenzie, Huon, eldest son of the late T. Mackenzie, Esq., C.B. Inspector-General of Hospitals, on March 8, aged 18.

MACLACHLAN, Dr. CHARLES PELLOWES, at 7, Bishop-terrace, Rothesay, on February 28.

on February 28. Herrie, D.C.L., Fellow of St. John's College, Oxford, and eldest son of the late James Bod, M.D., of Brook-street, Grosscone Strat., Mr. John, and John Strat., Mr. John, and John Strat., Mr. John, of Liskillia, Ballibrob, Ireland, eldest son of the late Mr. James Syme, Professor of Clinical Surgery in the University of Edinburgh, at Toquay, on March 11.

VACANCIES

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession.

mande, and tone only of selection (as int as Known) are stated in succession. Binanconias Gizenat, Discrepara—Redded Hyppicalia and Severetary; in the selection of the control of the con

DUNDER ROYAL IMPIRMARY.—House-Surgeon. Further particulars of the recretary, on or before March 22.

PROFITAL FOR WOMEN SOMO-SOLARY, W.—Assistant-Physician; must be a graduate in Medicine of some recognised University, and be M.R.C.S. Applications and testimonials to H. B. Ingram, Secretary, on or before March 18.

KENT COUNTY OPHTHALMIC HOMPITAL.—Consulting Surgeon; must be duly qualified. Applications and testimonials to B. Pearson, Esq., Secretary, Maidstone, on or before March 19.

LIVERPOOI. DISPENSABLES.—Two Assistant Resident House-Surgeons are wanted. Candidates must be duly qualified and registered. Applica-tions and testimonials to the Secretary, at the Dispensaries Office, Leith Uffices, Liverpool, on or before March 28.

LANCOLN COUNTY HOSPITAL.—House-Surgeon and Apothecary; must be M.R.C.S.E. and L.S.A. Applications and testimonials to the Secretary, or or before April 10.

MIDDLESEE HOSPITAL MEDICAL COLLEGE.—Lectureship on Physiology.
Applications and testimonials to the Dean, on or before March 30.

Applications and testimonials to the Doan, on or before March 30.

«Inver's Coulzon, Binaironian.—Medical Tutor; must be a Member of
the College of Surgeons of England, Ireland, or Scotland, or a Graduate
of a University in Grest British or Ireland. Applications and testimonials to Mr. Henry Harris, Secretary, Queen's College, on or before March 31.

ROCHDALR INFIRMARY AND DISPENSARY.—Resident Medical Officer. Applications and testimonials to Mr. Lee, Hon. Secretary, from whom further particulars may be obtained.

ROYAL SCREY COUNTY HOSPITAL.—Assistant Honorary Medical Officer.
Applications to the Rev. C. R. Dalks, Farncombe Rectory, Godalming,
on or before April 27.

on or defore April 17.

St. Georgie's and St. Jahre's Dispersary, 60, Kino-street, Redext-street, W.-Surgeon; must be P. or M.R.C.S.E., not practising phar-macy or midwifery. Applications and testimonials to the Secretary on or before March 20. Election on the 50th.

or outer harm 3. Zelection on the 30th flow; must have both Medical and Surpical qualifications. Applications and terrimonials the becreary, on or before April 12. Election on the 20th. The duties will commence on May 1.

Will commence on May 1.

Surpical Surpical

POOR-LAW MEDICAL SERVICE.

. The area of each district is stated in acres. The population is computed according to the last census.

Section of the last centure of the last centur

APPOINTMENTS.

Alawick Union.—Adam K. Trotter, L.P.P. and S. Glasg., L.B.C.P. Edin., Alexied Islam—Adam K. Trotter, L.F.F. and S. Glasg, L.R.C.T. Ellin, to the Emblecto Barrier. Santh, M.R.C.S. Eng., L.S.A., to the Station District.

Coldidad District.

Life Co

District.
Solikall Union.—Edward S. Page, L.F.P. and S. Glasg, L.S.A., to the First Tamworth District. Jonathan H. Kimbell, F.R.C.S. Eng., L.S.A., to the Second Tamworth District. James Arthur, M.R.O.S. Eng., L.S.A.,

to the Second Tamworth District. James Arthur, M.R.C.S. Eng., L.S.A., to the Third Tamworth District. L.S.A., to the Rell District. If the Control of the Third Tamworth District. If the Control of the Third Tames and Tames and

ROYAL COLLEGE OF SURGEONS.—At a special meeting of the Council on the 15th inst., Mr. Thomas Blizard Curling, F.R.S., of Grosvenor-street, Consulting-Surgeon to the London Hospital, was elected a member of the Court of Examiners, in Hospitch, was elected a memoer of the Court of Leasuners, in the vacancy occasioned by the resignation of Mr. Samuel Soily, F.R.S. The number polled by the respective candidates were as follows:—Mr. Curling, 11 votes; Mr. Birkett, 3; Mr. De Morgan, 2; and Mr. Hewett, 1. Mr. Curling, who was elected a member of the Council in 1864, obtained the Jacksonian Prize in 1834 for his essay on Totanus, since which he has been a valuable contributor to the advancement of chirurhas been a valuable contributor to the advancement of chirurgical science. The examinations for the present year will commence on Saturday, the 1st prox., on the conclusion of the lectures now being delivered by Professor Flower, F.R.S. MR. ROBERT FILLIOTT, F.R.C.S. Eng., late Medical officer for district No. 2 of the Weethampnett Union, Sussex, lass obtained a superamunation allowance of 250 per annum. MR. J. COMYNE LEASH, B.S.C. Lond, M.R.C.S.E., L.S.A., has been appointed a county coroner for Dorsethire, in the room of Mr. W. H. R. Bemett, M.R.C.S.E., L.S.A.,

resigned. This appointment, until five years ago, was always held by a member of the legal profession, when Mr. Bennett contested it with a lawyer and was successful. This time there was no opposition.

It has been resolved to establish a Hospital in Birmingham for the treatment of diseases peculiar to women. WORCESTER GENERAL INFIRMARY .- At the annual

meeting of this institution, held on Friday, the Executive Committee were authorised to carry out alterations and additions to the Infirmary at a cost of £4397.

THE sum of £4500 was realised by collection on Hos-

pital Sunday in Liverpool.

THE late Joseph Gedge, M.D., of Casus College, who perished at Khartoum, serving with Sir Samuel Baker's expedition in October, has left 1000/. for the foundation of a phy-

siological prize, Cambridge University.

MR. S. MORLEY, M.P., has made an offer to furnish and fit up a boys' home in London, similar to the two already

and it up a coly a cone in London, summar to the two arready in existence, and pay the reat for four years. A MAN, named Thomas Jones, has been apprehended at Rhyl, charged with a fearful ontrage on his brother Richard. He quarrelled with him, choked him till his tongue protruded. and then bit it off.

A sign, announcing "The Vacuum Cure," is hung

out from the window of an eating-house in London. The police of this city, says the Manchester Examiner, have just brought to light a baby-farming establishment of

the worst character. FIVE of the crew of the Ismillia, a steamer which sails between Liverpool, Glasgow, and New York, were found dead in their berths, at the last named city, from suffocation caused

by the inhalation of coal-gas.

THE Secretary of the National Hospital for Consumption, Ventnor, writes that it is intended to open, for women patients, the second pair of houses on Tuesday next, in commemoration of the marriage of the Princess Louise, by whom

the foundation-stone was laid on behalf of the Queen. THE Inland Revenue Commissioners, in reply to an inquiry as to whether receipts for voluntary subscriptions to charitable institutions require to be stamped, state that all charteable institutions require to be stamped, state and receipts for or upon the payment of money amounting to 40s. or upwards are by law liable to stamp duty; but it has not been the practice of the Board to proceed for the recovery of the penalty incurred, in which an acknowledgment of a mere voluntary gift has been given upon unstamped paper.

SEVERAL children suffering from small-pox, all belonging to one family living in St. Pancras, have been becoming to the manny in the factors, not been received at the Hampstoad Hospital; their ages ranged from 16 to an infant in arms. Not one of these had been vaccinated, and several of them are dangerously ill. The mother, an anti-vaccination believer, is with the children as a nurse.

OUTBREAK OF SMALL-POX IN PRESTON.—On Tuesday, at the Preston Board of Guardians, a letter was read from Dr. Ridley, the Medical officer of the union, stating that several families in Preston and its neighbourhood were suffering from families in Freston and its neighbourhood were suffering from small-pox, and suggesting the revaccination of the immates of the workhouse. Dr. Ridley's suggestion was agreed to, and the guardians were all of the opinion—after seeing the serious consequences of the disease in Liverpool, Manchester, London, and of her places—that the town and district should be placarded with bills urging the public to be revaccinated.

THE WESTMINSTER SMALL-POX HOSPITAL .- The Westmints. Districts of the control of t superintendent, four nurses, and a cook and general servant have also been appointed. The Board have likewise provided an ambulance. The Hospital is for the reception of persons not of the pauper class.

not of the pauper class.

UNSKLIPLU AGCINATION CAUSING DEATH.—An inquest was held on Monday, at Liverpool, on the body of a man named Dingwall. He had been vaccinated whilst suffering from diabetes, by an unqualified Practitioner; and in consequence of the operation pyremia was induced, from which the decessed direct. Vertice accordingly.

ANTI-VACINATION.—At the Manchester Police-court, ANTI-VACINATION.—At the Manchester Police-court,

last week, William Waterall was summoned for refusing to allow hischild, Jonathan Waterall, to be vaccinated. It was stated that the defendant had been fined 21s. and costs, in September last, for neglecting to have the same child vaccinated. The defendant, in answer to the Bench, now said—"I resist the act of vaccination because it is contrary to God's word, and I take all the consequences of the resistance, relying on God's protection and no other." An order was made for the vaccination of the child in fourteen days.

KILMAINHAM HOSPITAL.—It appears the recommenda-tions of the Committee are not to be acted on at present, as the items in the army estimates for the cusuing year are precisely the same as before.

Association of Medical Officers of Health .-ABSOLATION OF MARDICAL OFFICERS OF HEALTH.—
The next meeting of this Society will be held on Saturday, March 18, at 7.30 p.m., at the Sociation Corporation-hall, Cranocourt, Fleet-street.—The President, Robb, Druitt, M.R.C.P. Lond., F.R.C.S., will read a paper "On the Status of Medical London, Status of Medical Country of the Status of Sanitary Commission.

THE cattle plague is making fearful havoc in the

neighbourhood of Lille.

THE Privy Council return for the month of February, published on Tuesday last, shows an importation of only forty-four animals—twenty-seven cattle and seventeen swine—all of which were affected with foot and mouth disease.

Mr. Knox, the magistrate at Marlborough-street, decided on Saturday last that insanity entitles a sufferer to sick

pay under the rules of a friendly society.

THE child of a tobacconist named Lee, keeping a shop in Brownlow-hill, Liverpool, says the Sheffield Times, was taken ill of small-pox, and after a short illness apparently died. The body was laid out, and after the lapse of three days was placed in the coffin; when, to the surprise of all around, it uttered a cry, and awoke from what appeared to be a mere lethargy. The recovery, however, was not final, for in a few days after-

The recovery, however, was not man, tor an new anys accurate the child actually died.

PROFESSOR LEONE LEVI, in a report which he has prepared for Mr. Bass, Mr., says that the fixed capital employed in the production of beer and spirits is estimated at 17.140,000, and the floating capital at 22,300,000; making a total of £10,600,000. The foregoing figures relate solely to the production of intexicating liquors. Their distribution inaces us to a fresh class of interests. The Professor's conclusion is, that the total capital invested in the manufacture and sale of intoxicating liquors amounts to £117,000,000. In computing the number of persons employed in the trade, he thinks four for each public-house a very moderate estimate. We have 150,000 of these houses, and this would give 600,000 We have 190,000 of these nouses, and this would give cov, our persons so occupied. There are also 72,000 persons engaged in the direct manufacture of beer and spirits, besides those employed in bottling, coopering, etc. Adding these figures together, the total arrived at is 846,000 persons, or with those dependent npon them, 1,600,000.

THE PURIPICATION OF THE LEA.—In reply to an

inquiry, Alderman Sidney, one of the conservators of the river Lea, said the Conservancy Board had had to give notice to the various authorities in the watershed of the Lea to compel them to take measures with a view to the purification of the river, which was one of the great sources of water-supply of the metropolis, and when the whole of the works were completed,

the river would be free from impurity.

SINGULAR CASE OF LOCK-JAW .- On Tuesday, Dr. Hardwicke held an inquest on James Rook, aged 9 years. Deceased was playing with other boys at peg-top in Bolton-mews, when a boy named Neil, about the same age, passed up mews, when a boy named Neil, about the same age, passed up the mews, and anused himself by kicking about the other than the same and three tit among the boys; the stone struck the december and three tit among the boys; the stone struck the december of the three tits among the boys; the stone struck the december of the was taken to St. Mary's Hospital, where he died from lock-jaw, produced from the wound in the forchead. A verdict of "Death from misad-the wounds in the forchead. A verdict of "Death from misadventure" was ultimately returned.

DEATH FROM HYDROPHOBIA.—Another death from hydrophobia is reported from Bolton. A little boy, who was bitten by a mad dog on the 14th ult., died in great agony on Sunday morning, making the second death in that town within a fortnight caused by bites from the same dog. On Saturday a young woman was also bitten by a dog suffering from rables. The Bolton police appear to be vigilant in the destruction of vagrant dogs, for we learn that up to the present time they have seized and poisoned no less than 133 of the canine race.

Dr. WOODWARD AND THE WORCESTER BOARD OF GUARDIANS.—Dr. Woodward attended the Board on Thursday. Ovaluates.—Dr. Woodware utended ageinst him by Mr. Mitchell with reference to bit full indeed ageinst him by Mr. Mitchell with reference to bit full indeed ageinst him by Mr. Mitchell Robert Hull, who, it was alleged, had obtained a Medical order from the relivening officer. Dr. Woodward stated that the Medical order in question was a forgery; it was not signed by either of the relivening officers, although it born Walker's name. Walker admitted that it was not signed by himself, but by Peter Howell, an aged inmate of the house. Dr. Woodward Yauker admitted that it was not signed by mimself, out by Peter Howell, an aged immate of the house. Dr. Woodward further stated that Hull was very far from being in a state of pauperism—in fact, he had got Hull's name in his book as a private patient. The chairman said Dr. Woodward's explanation. tion was satisfactory, and there was an end to the case.

MM. Höhler and Schimpf have reported in the Berliner Med. Wochenschrift that they have repeated the experiments of Personne with the following results:—Commercial oil of turpentine is a good antidote to poisoning by phosphorus. There is no fatty degeneration of the tissues, nor is there any free phosphorus found in the system of the animals experimented on. Phosphorus and turpentine oil form in the stomach a compound resembling spermaceti, which is readily excreted.

COMPLAINTS AGAINST A VACCINATION OFFICER,-At the Wakefield Board of Guardians' ordinary meeting last week, The Wateriell Board of Untariants ordinary meeting last week, Mr. Connor drew the attention of the Board to some irregularity on the part of Dr. Wade. Sharlston was one of the townships for which Dr. Wade had been appointed vaccination officer. Dr. Wade had attended on the first Tuesday in January, and ought to have attended on the second, but he did not do so. The mother of a child which had been vaccinated on the first-named day attended, and also several other persons with other children. He also heard that Dr. Wade had arranged with Mr. Mackenzie, of Normanton, for the latter to vaccinate the people in Sharlston district, and receive half the fees. No were proper in contributed and receive and the feels. No such arrangement ought to have been made without the sanction of the Board. In the course of a desultory conversation which followed, an opinion was generally against the present large districts, and in favour of reverting to the old plan of allowing every Surgeon to vaccinate. It was decided to request Dr. Wade to give some explanation for his remissness.

PARIS REGISTRATION RETURNS .- The return for the 1818 ABJISHAIN ABJISHAS.—Into recture for used many descriptions of these being furnished by the military population, and 350 cocurring in children under a twelvemonth old. The cases of variola had diminished to 147, but these of typhoid fever amounted to 260. There were 424 deaths returned from bronchitis, 338 from pneumonia, and 240 from diarrhosa and dysentery. The civil population of Paris, according to a census taken January 7, 1871, numbered 2,019,877 souls.

THE number of deaths in Paris last week was 2993, showing a decrease of 507, as compared with that of the previous week, and a decrease of 1700 with that of the first week in February. Only 85 persons died of small-pox.

THE EPIDEMIC OF SCORBUTUS IN PARIS .- M. Legroux, in his account of the epidemic scorbutus at present prevailing in Paris, thus notices the remarkable exemption of women from its attacks :- "This disease has attacked far more men than its attacks:—"Inis cisease has attacked far more men train women, and that in an enormous proportion. Among 200 scorbutic patients, we have not met with more than three or form women. And yet, women might be expected to easily become the subject of this cachexia. How many of them, become the subject of this cachexia. How inany of them, amongset the working classes, have been living in a problematical amanner! Often without work or resources, and anaemic, as women usually are in large cities, many of them have bet little feel, and many of them have been feel only or nice-bread (and what bread) and a little wise, obstitutely refusing horse-bread (and what bread) and a little wise, obstitutely refusing horse-bread (and what bread) and a little wise, obstitutely refusing horse-bread (and what bread) and a little wise, obstitutely refusing horse-bread (and what bread) and the bread of the subject of the subjec that the females of Salpétrière were the only subjects of an epidemic of sorbutus in 1847."—Gazette Hebdomad., March 10.

POISONED BY EATING A TURKEY.—The adjourned inquest on the body of Mr. Marshal George Harrison, of Wisbeach, was held on Monday last. The deceased was taken ill on December 29 last-it was supposed in consequence of something of a poisonous nature in the turkey of which he partook on Christmas-day. Mrs. Harrison, two danghters, a son, and a friend were also seized with vomiting, but all recovered, with the exception of the deceased, who died on January 4. The viscers of the deceased, and portions of the turkey, sauce, catsup, and some water, were sent to Mr. Rodgers, London Hospital, for analysis. In his report of the assagers, Lormon Russitat, for anarysis. In his report of the result of the examination to the corner, he says that, after very careful analysis, no mineral or irritant poisons were discovered. In his experience he had met with a case equally singular, where a person had died after partaking of goose, and the symptoms in that case were identical with those observed in the present instance. He could come to no other considerate his that the table of the could come to no other conclusion than that the turkey was poisonous in its nature, like the goose referred to, and that the death of Mr. Harrison was attributable to no other cause. Verdict—"Death from

ANOTHER MISTAKE.-We regret to record another instance of each in a police-cell from apoplexy. It appears, from the evidence given before the coroner at St. George's Workhouse, Borough, that the deceased was found lying in the Borough Market, in a state of insensibility, by a police-constable. The officer thought that he was drunk, and caused him to be removed to the station-house. He was taken to the workhouse, after having been seen by Mr. Thomas Evans, the son of the police-Surgeon, who admitted, in answer to the corner, that, although he was not properly qualified, he was in the habit of going to see patients at the station. This witress, finding no smell of drink about the decased, gave a influence of opium. Other Medical evidence showed that the decased, who was a master tailor, carrying on business in Chespaide, had died from apoplexy, and Dr. Evans, the police-Surgeon, who was called at the desire of the corner, and that, having been tired after a hard day's work, he had seat his son at the station. The cornor having observed that the case might have terminated differently had the patient received prompt Medical add, the jury returned a verific, "Death or prompt Medical and, the jury returned a verific, "Death or worlds," of the control o

from apoplexy."

THE WAR CARRED INTO THE REALMS OF SCIENCE—
Count Janbert has addressed the following letter to the President of the Accidence Generary Neuro. Curiosu.—"Monaicut let
President,—I felt myself greatly honoured when, in 1838, I
received the diploma of Monbership of your celebrated accidenty
under the espinears of Gundelsheimer, the companion of Tourmotor in the Esta— complimentary allusion to my researches
the state—a complimentary allusion to my researches
between the two nations has assumed such a character, that a
Freechamacean hologor, without compromising histown dignity,
maintain even scientific relations with the other side of the
Rhine. Consequently, I beg of you to remove my name from
the list of members of your academy.—Count Jaubert, Member of the Institut and Deputy du Chee." A similar letter has
red of the Science of the Continual Control of the C

jubilee of 1868.

ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND.—The loss of power consequent on the existence of IRLAND.—Inc loss or power consequent on the existence or the control of the control of the control of the control of the Society of Lundon. "and the control of the control of the London "—has ever been a matter of regret to all who are in-terested in the science of man. It has from time to time, therefore, been proposed that they should be amalgamated; and ultimately delegate from both Societies, having received full powers to negociate, not for the purpose of arranging the terms of union, which object was happily attained. It was at first suggested, and agreed to on both sides, that the amalgamation should be effected under the designation of "United mation should be effected under the designation of "United Anthropological and Ethnological Society," both Societies thereby evincing a desire to unite on terms of equality. This title, however, being considered inconvenient, Professor Huxley, on behalf of the Ethnological Society, in consideration Hintey, on bothair or the Emmongreat Society, in considering wish frequently expressed by members of the Anthropological Society that the word "Anthropology" should be retained, proposed the tilte of "Anthropological Institute of Great Britain and Iroland," which was unanimously adopted. The vice-presidents and council have been taken in equal numbers from each of the Societies now united, and their rules have been modified and adopted as those of the Institute.

Among the officers have been included all those of either Society who were willing to retain office. The honorary ers of each have been retained, and life compounders have been included with the other Fellows amongst the Members of the Institute. With the view of including within the sphere of the new Institute all those branches of science which lay within the province of either of the previously existing Societies, the council of the Institute wishes it to be distinctly understood that the term anthropology is not intended to be confined merely to the study of the physical structure of man, psy-chology, sociology, etc., but will include the several branches of choogy, sectology, etc., out will include the several branches of choology and prehistoric archeology. Under the head of cha-nology, the Institute invites contributions from travelless geographers, naval and military officers, and the Fellows of the Royal-Geographical Society, descriptive of the various lumma races which may come under their consideration; whilst under that of prehistoric archeology it expects to receive from archeologists and geologists communications esreceive from archieologists and geologists communications ex-pecially relating to the study of the earliest condition of mankind. The council confidently believes that, under the new organisation, whilst both labour and expenditure may be much economised, the Institute cannot fail to attain to a greater efficiency than was possessed by either of the previous Societies; and that thus the study of the important sciences in

which it is specially interested may be prosecuted with increased advantage and facility.

MURDER OF THE ITALIAN BOY .- Mr. II. B. Tuson has kindly forwarded us the following:—"It was my lot to have witnessed the results of the Burking of the Italian boy. At the beginning of 1830 the formation of a museum was commenced for King's College, at the Hunterian School, Great Windmill-street. Herbert Mayo lectured upon Anatomy, and Mr. Tatum was Demonstrator. Here I witnessed scores of transactions between the dissecting-room porter and resurreationists—Jack Phillips, Sullivan, Connor, etc., being notorious 'body-snatchers.' At the period here referred to, Mr. Partridge was busily engaged (assisted by your humbleservant) in putting up preparations for the museum of King's College. Eventually the collection was transferred to 'King's,' and the Eventually the collection was transferred to 'King's, and the Medical School was opened in October, 1831. Mr. May loc-tured on Anatomy, Physiology, and Pathology; Mr. Partidge was Demonstrator; Mr. A. A. Cane was Curstor, and I was his seistant. Bodies for dissection were only obtained through the agency of 'body-snatches.' Wm. Itill was waited upon by Bishop, Williams, May, and Shields, they having brought a court of the control of the ing-room. Wm. Hill observed a certain red mark upon the upper part of the thorax of the body, which to him looked sus-picious. He called my attention to it. I was too young to advance an opinion, and Wm. Hill at once made Mr. Partridge acquainted with what had occurred. Mr. Partridge (who at that time was living at Lancaster-place) promptly attended, and, from what he saw, felt convinced as to there having been foul play. The four men just alluded to were waiting (as they foul play. The four men imagined) for payment. imagined) for payment. By-and-bye Mr. Partridge was brought into contact with these rascals, and I think I am right orough mo connec with these raseas, and I think a an right in saying Mr. Patridge adopted a rase by saying he must get change of a note. Instead of returning with the money, Mr. Partridge brought with him some policemen. The four men were taken to Bow-street office. I was present at the first hearing. The men were tried and found guilty Bishop and Williams were hung, May was imprisoned (he soon died), and Williams were hung, May was imprisoned (he soon died), and Shields (a Covent-garden porter) was acquitted. The body of Bishop was brought to King's College; his bones were articulated, and the greater part of his skin tanned, and carefully preserved in the museum. The body of Williams was taken to Tuson's School, Little Windmill-street.

THERE is a French patent for entirely removing the smell from turpentine, and so forming a superior kind of camphine. It is effected by rectifying turpentine over tannin, which is said to remove all the resinous materials which give an offensive odour.

NOTES, QUERIES, AND REPLIES.

De that questioneth much shall learn much .- Bacon.

Mr. Furneaux Jordan.—The book is in the hands of the reviewer, and will be noticed as soon as possible.

Mr. Jas. Alex. Campbell, of Giasgow, was informed by an eminent oculist in London, some years ago, that even under circumstances apparently most favourable, every minth or tenth operation for cataract failed of success.

E. S., St. Thomes's Hospital.—Mr. Sidney Chater, who, with his admirable wife as a lady nurse, has been all through the recent war, has just returned to England.

The examination papers for candidates for Assistant-Surgeoneises in II M.'s army and mary comprise questions:—1.1 s. dashess and Physiology.—The dissection of the internal maxillary artery; the structure, composition, and development of boss it is consistent on the feesur; the anatomy of the on hyddes, and the parts divided by an incision in the face, from the very to imprint a pythilic of scrimation in the face, from the very to imprint a pythilic of scrimation of the breast; of trummatic ancurien; generone from compound fracture, howestoneie; and ruptured backini artery. 3. In Microsci.—Tubercular meningitis; discused heart, and droppy; circhosis of the liver; uleer of the alimentary const; difficult labour; mixed acids. 4. In Natural Hustery (voluntary)—Modifications of heart; cruntaccu; peuts gave, it leads; hiberculation in mines. 6. In Language.—Bacy translation of French and German into English, and its extractions.

Hahnemenn.—What is homeopathy? A system of doing nothing, and taking a long time to do it. Indiguant -The observations made by Baron Martin on the case of Spencer. Hayes, and Watson, at Durham, apply with double force to the case of Mr. Defriez, who was committed for manslaughter on the stuff that a for evidence before a coroner's jury.

A Student.-The size of Dubois-Reymond's induction coil may be taken from the diagram in the lecture (the second of the two illustrations).

The proportion between the size of the diagram and the actual size is about 1: 12. The strength varies according to the battery employed.

Dr. Sanderson uses two Stillher's cells. The induction ceil can be made by Becker, of Elliott and Sons, St. Martin's-lane. It costs about two

ARRY MEDICAL UNIPICATION. (From a Correspondent.)

In the concluding pararraph of the article in the Medical Trace and Gazette, this net, premed for the summary signoral of the obviously impracticable "Suggestions for the Ricognosistion of the Array Medical Department," by a Staff Sungeon-Superior Superior Superio

on lever to impass that the authorities up to be set that we have been all the set of th

ERRATA IN POLITZER'S LECTURE.

FRREAT AN TOLITER'S LECTURE.

TO THE ENTOR OF THE REPORT AT THE AND GARFITE. The first is in the twestich line of the second column. Instead of the words, "at the mosth" 1-local have writer, "with the mosth." The department of the words are also as the second column. Instead of the words, "at the most have been the second with the fingers, and at blown into taken away from the bag, and after the instrument has been placed in the more of the patient, the noise indeed with the fingers, and at blown into the more of the patient, the noise indeed with the fingers, and at blown into Taken and the second error is that of having added the first strike I word row with at the thirty-worth line of the second column, and goes under the head of "Serons Avenumbiation in the Tympane Cavity." [Sew. Millipotz, Vinnan, Mach Millipotz, and the second columns and goes under the head of "Serons Avenumbiation in the Tympane Cavity." [Sew. Millipotz, Vinnan, Mach Millipotz, and the second columns and goes under the head of "Serons Avenumbiation in the Tympane Cavity." [Sew. Millipotz, Millipotz

VACCINATION & MEANS OF SPERADING SHALL-POX.

fatid forms.

Last Angust, I attended a family of six, suffering from variable-three modified (vascinated), two combent territ, unracelasted), one distinct modified (vascinated), two combent territ, unracelasted), one distinct the bones as unsufficient to the stress of the stress o

ought to be in diagnosing between the two, and that it is occur to the out-but right or protective side.

These cases occurred in an eastern parish, which has since suffered severely, and were known to the parish authorities. An unvaccinated bally, aged six months, entirely escaped.

Lam. Ev. Granta Granta Parit.

I am. &c. GRATIA GRATIAM PARIT. o, The parish authorities ought to have proceeded against the persons

who exposed themselves.

VACCINATION AND REVACCINATION IN GLASGOW.

Vectorizes of the Development of Diagone.

To this increase of the Statement report and observed. The statement report of the Statement of the

vaccination. If Practitioners cannot obtain a sufficient supply of good vaccine lymph, let them do without it rather than by a mean deception send their patients forth still unprotected. I am, &c. M.

Glasgow, March 15. Physician to University Lings; in Dispensary.

Too Wive Taken The following is a quotation from a letter by Mr. Shaw which appears in the City article of the Timer of Wednesday :

The Vira Table.

The Indistrict is quotient for the left by Mr. Show which appears in the City which of the both rows a letter by Mr. Show which appears in the City which of the both rows in a consistent of the left of the left by an all wins to a midror must of it, be regulation. In 1854 coining to the meetralisty and the agitation which had been roused, Mr. Diesself to the day on an authorized the agitation which had been roused, Mr. Diesself to the consistent of the day of the left of the left of the consistent of the day of the left of

"Cape is certainly not in high repute, but after encouraging its growth for forty years, the redustion of the duty on other kinds has absolutely ruined the growers.

7.081,454 red,

for forty years, the reduction of the duty on other kinds has absolutely regarded by groces and obters, in their circulars, that the wine trade is increasing satisfactorily, but I venture to express an entirely opposite opinion, for, although the consumptions is now double entirely opposite opinion, for, although the consumptions is now double entirely opinion and the consumption is now double on the entirely opinion of the entirely opinion of the entirely opinion is now double on the entirely opinion in the entirely of the entirely and per annum does not exceed three bottles.

The entirely opinion is now 2,000 donore while the total consumption per lead per annum does not exceed three bottles.

The entirely opinion is not exceed three bottles, the history of the wine trade from annuary 1,1886, to Becember 31,1870. To make it still more correctly understood, it is well to remark that in the consumption (duty-poul lies exp. Spando was A, 6107 gallows with, chieffy shapped (duty-poul lies exp. Spando was A, 6107 gallows with, chieffy shapped and beredge called chaste, and 1,188, e8 gallows white, the great propersion of which is spathing wires, almost all culted Champagoo and the entirely called the entirely object gallows, expected are white and 7,586,454 red.

Spanish. Portumoso French Gallons. Per Cent. Gallons. PerCent. Gallons. Per Cent. Voor of Total 1856 to 1859 2,783,831 20:54 2,201,305 90:00 930 933 8:53 4,974,112 6,181,598 43'41 2,832,217 1864 1868 21.76 9 SIM 919 90:11 46'38 46'90 41'8 20°58 18°20 19°4 4,501,931 4,061,538 2,853,470 1509 6.300.338 2,820,956

Year.	Gallons.	Per Cent. of Total.	Total Con- sumption of Gals.	Popula- tion.	Botties per Head.	Revenue.
1856 to 1859 (average)	1,505,978	20'88	7,092,045	28,200,000	1 4-10	1,900,000
1864	1,346,144	11:72	11,456,715	29,674,320	2 3-10	1,319,201
1998	1,615,752	9:54	15,151,741	33,400,000	3	1,721,194
15920	1,657,826	11:55	14,810,158	30,769,000	3	1,312,122
1570	1,794,679	11:8	15,169,304	30,838,210	3	1,587,199

placing the brandied compounds of Spain and Portugal.

BOOKS RECEIVED.

BOOKS RECEIVED—

P. C. A. Winderbids on the Temperature in Diseases: a Manual of Medical Thermometry, translated from the German by Dr. W. B. Woodman—

Pleming, F. R. O. S.—Transaction of the Othertical Georgies, Vol. 1.—Dr. O. C. T. Cark on the Management of the Othertical Proveps—James O. Gurki, Jun., on the Working of the Ordinator Disease. Acts at Cark.

—Report of the York Lonatic Asylum, 1600—Journal of the Seetling of Meteorological Society—Dr. Caronton on the Action of Neurotia Medical Society—Dr. Caronton on the Action of Neurotia Medical Provinces of the Neuron of Neurotia Medical Provinces of Neuron of Neurotia Medical Provinces of Neurotia Medical Prov

PERIODICALS AND NEWSPAPERS RECEIVED-

Nature—Pharmaceutical Journal—The Dablin Express—The Wisbeach Chronicle—Gasette Hebdomadaire—New York Medical Garette—Indian Medical Gasette—The Liverpool Mercury—The Brighton Examiner— Medical Press and Circular—Chemist and Druggist—The Liverpool Daily

APPOINTMENTS FOR THE WEEK.

March 18. Saturday (this day).

Operations at St. Deatter, 10, State way (147 away); As m.; Kingre, 19, m.; Charles, 20, m.; Charles, 29, m.; Charles, 200, m.; M. Den, 18 a.m.; Monika for Women, 19 a.m.; Hoyal London Ophthalmia, 11 a.m.; Hoyal London Ophthalmia, 11 a.m.; Hoyal London Ophthalmia, 11 a.m.; Moral London Ophthalmia, 11 a.m.; Moral London Ophthalmia, 11 a.m.; Hoyal London, 1

Operations at the Metropolitan Pres Bropital, 3 p. m.; St. Mark's Bospital for Diseases of the faction Pres Bropital, 3 p. m.; St. Mark's Bospital for Bissas, at the present of the faction ophthalmin, it a. m. bear Bospital for Stone, Monical Society or Lorson, 8 p.m. Mr. Jakes Hogg, "On Cataract Monical Society or Lorson, 8 p.m. Mr. Jakes Hogg, "On Cataract Cark will narries some Cases of Prescriptification," Dr. Admonther Cark will narries some Cases of Prescriptification of Cark will narries some Cases of Theorems (2018) and Carlo Society (2018) and Carlo Societ

co-catacent.

Collai Science Association, 8 p.m. Dr. Guy, F.R.S., "On Vagrancy:
its Nature, Causes, and Cure, with Special Reference to Recent Legislative Efforts bearing upon it."

21. Tuesday.

Operations at Guy's, 1½ nm; Westminster, 2; nm; National Orthopsedie, Great Portland-street, 2; nm; 10; nl Yers, 2; nm; 10; 12 lord Press, 2; nm; 10; nm; 10;

22. Wednesday.

Operations at University College Hospital, 9 pm.; 8t. Mary's, 14 pm.; Middlesen, 1 pm.; London, 9 pm.; 8t. Ratchboonew's, 14 pm.; Great Northern, 2 pm.; 8t. Themark 14 pm.; 10 phalamin, Southward, 2 pm.; 8t. Themark 14 pm.; 10 phalamin, Southward, 2 pm.; 18 pm.; 10 phalamin, Southward, 1 pm.; 18 pm.; 10 pm.;

BOCIETY OF ARTS, Sp.m. Meeting.

23. Thursday.

Operations at St. George's, ip.m.; Central London Ophthalmic, ip.m.; Royal Orthopsedie, ip.m.; West London, ip.m.; University College Hospital, ip.m.; Royal London Ophthalmic, ila.m.
ROYAL INSTITUTION, ip.m. Dr. Odling, "Davy's Discoveries."

24. Friday.

Operations at Westminster Ophthaline, 1 p. m.; Central London Oph-thalmic, 9 p. m.; Royal London Ophthaline, 1 s. m. CLUSIGLE, SCHUTT, 8 p. m., Dr. Diffin, "Case of Rescola Variolom." Mr. Christopher Heath, "On a Case of Complicated Stricture of the Mr. Tervan, "The Treatment Adopted in a Case of Heartine from In-passable Stricture." Dr. Broadbeat, "Thorphorus as a Remedy in Skin Diseases."

ROTAL COLLEGE OF PHYSICIANS, 5 p.m. Lumleian Lortures—Dr. West, "On some Disorders of the Nervous System in Childhood." BOYAL ISSTITUTION, 9 p.m. Prof. Clerk Maxwell, "Colour."

EXPECTED OPERATIONS.

London Hospital.—The following Operation will be performed on Saturday (this day) at 2 p.m.:—
By Mr. Maunder—Ligasture of the Subclavian Artery.

By Dr. Meadows—Ovariotomy.

VITAL STATISTICS OF LONDON. Week ending Saturday, March 11, 1870.

BIRTHS. Births of Boys, 1141; Girls, 1120; Total, 2261. Average of 10 corresponding weeks, 1800-69, 2155 1. DEATHS.

		Males.	Females.	Total.
eaths during the week	:	835 764'2	766 795-7	1601
verage corrected to increased population	1		***	1642
eaths of people above 90		***	***	***

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1961.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Pever.	Diarrhose,
West	***	458125	20	1	5	2	17		3	1	4
North	***	619210	72	8	12	5	14	1	2		3
Central	***	393321	9	2	4	1	6		***		1
East	***	571158	41	2	5		17	3	1	6	1
Bouth	***	773175	52	6	29	1	13	1	9	***	6
Total	***	2903989	194	14	51	9	67	. 5	15	7	15

MET							
From Observations a	t th	Gree	nwich	0	beere	ato	ry.
Mean height of barometer .							29 788 in.
Mean temperature						٠	46.8
Highest point of thermometer .							67.2
Lowest point of thermometer .							33.7
Mean dew-point temperature .							30.0.
General direction of wind							8.W.
Whole amount of rain in the we	ek .			٠_	•	•	0°47 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, March 11, 1870, in the following large Towns:-

	ion in 1871.	ere.	during Mar. 11.	during (ar. 11.	Tem of A	ir (F	ture	Temp. of Air (Cent.)	Ra	
Boroughs, etc. (Municipal boun- daries for all excep- London.)	Estimated Population middle of the year 187	Persons to an Ac (1871.)	Births Registered the week ending 3	Deaths Registered the week ending 30	Highest during the Week.	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3259400	41.8	2261	1601	57-9	33.7	46'3	7:94	0.47	1:19
Portsmouth		13.2	77	35	58.8	34 2	46.8	8-24	0.54	
Norwich		10-9	70	40	56.0	35.0	44'9	7.17	0.38	0.97
Bristol		37.0	123	80				***		
Wolverhampton		22.0		20	54.8	34:4	45:3	7:39	0.35	
Birmingham		48:3	290	174	63.8	31'5	46.3	7:69	0.20	
Leicester		31.7		87	56.7	31.0	45'3		0.40	
Nottingbam	90493	45.3		35	63.9	35-9	46:3	7:94	0.30	
Liverpool	526225	103.0	400	414	56.4	37-9	46.5	7:89	0.31	
Manchester		8415	255							
Salford		23-9	9.3				44'5	6:95	0.38	
Bradford		22.5	127	68	81.0	36:6	45'4	7:44	0.21	
Leeds to	266108	12.3	260				46'1		0.23	
Sheffield		11.3		945	56'0	35.2	45'8		0.99	
Hull	185195	3810	76	62			44'3	6:84	0.31	0.18
Sunderland		31.3	199							
Newcastle-on-Type		25'5	120	56	55.0	37:0	44'1	6.13		0.81
Edinburgh		40.6	113				46'8	8.53	0.40	1.78
Glasgow		94'3	371	319	56.6	35:1	45'4	7:44		4.08
Dublin (City, etc.+		83 1	204	176	56.5	33.0	46'2	7:89	0.25	1'33
Total of 30 Towns in United Kingd's		8414	5370	87 40		3010	45.6	7:58	0.50	1.28
Paris-Week endin		98	1	9995					l	
Mar, 10	ametes42	1 28	***	Tarret.	7	***	***			-"
Vienna-Week end	622087	68		ı	1	1				
ing Feb. 25		1 60	***							١
Berlin-Week end		52	1	J	١	1				eter

At the Boryal Observatory, Greenwich, the mean reading of the barometer in the week was 507 in. The highest was 507 in to Turnelsy morning, and the lowest was 507 in to Turnelsy morning, and the lowest was 507 in to Turnelsy morning, and the lowest was 507 in the Turnelsy morning, and the manufactured to Turnelsy was the second to the sample of the terminal to the sample of the

• The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probably be available before the middle of the year, and will then be substituted for these estimates.
+ Inclusive of some suburbs.

ORIGINAL LECTURES.

LECTURES DELIVERED TW THE

PHYSIOLOGICAL LABORATORY OF UNIVERSITY COLLEGE.

By J. BURDON-SANDERSON, M.D., F.R.S., F.R.C.P. Professor of Practical Physiology.

LECTURE V .- ON THE ARTERIAL MOVEMENTS.

Is my last demonstration, we studied the most important of the methods employed for the purpose of measuring the arterial pressure during life in the lower animals. I pointed out to you that, of the various instruments in use for this purpose, one only-wite, the C-spring tymograph of February available for the complete invariance of the purpose, one of the purpose of the complete invariance of the complete invariance of the complete invariance of the complete of the complet pulsation. For, for this investigation two things are necessary-viz., first, that we should be able to determine the mean presviz., first, that we should be able to determine the mean pre-sure as compared with that exercised by a mercurial column of known height; and, accordly, that we should possess the means of ascertaining with accuracy the extent and duration the stand exercisions and contractions. The ordinary means of ascertaining with ascuracy the extent was unranged of the arterial expansions and contractionarily completely fulfils the first of these requirements, but not the second Another instrument which we are going to study to-day answers the second purpose, but not the first. It measures the duration and extent of the arterial movements with considerable accuracy, but affords us no exact information as to the

OBSERVATION XX .- CONSTRUCTION OF THE SPHYOMOGRAPH, AND METHOD OF GRADUATING IT.

The sphygmograph is now so well known that I do not think it necessary to describe it particularly. Its most essential

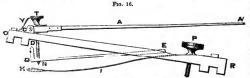
radius and a spring, the bearing of which is in a fixed position in relation to that surface, it is supposed that it performs movements corresponding exactly with the variations of the diameter of the artery, which are transferred in a magnified but otherwise unalited form to the lever. As regards the relative and actual duration of the movements, we shall find resaure ann actual quarmon or the movements, we shall find that this is strictly true. As regards their extent, it is true only in so far as the lever follows the movements of the spring with exactitude, and, as the strength of the spring—that is, the pressure exercised by it on the outer surface of the artery— is adapted to the antagonistic pressure exerted by the blood-stream on the internal surface, and to the movements which it internal and the movements. is intended to measure. The theoretical determination of the relation between the

essure of the spring and its effect on the artery to which it pressure of the spring and its effect on the artery to which it is applied, involves physical questions of very great complexity. I need only touch upon them so far as is needful to explain the empirical solution of the problem on which the use of the sphrygmograph as a means of research is based. The instrument has all the problem on many term in the hands of medical men, but has lithesto been of little practical use, chiefly because few are willing to take the trouble which is requisite either to understand the principles of its action or the mode of its

application.

The easiest and shortest way of accomplishing the purpose we have in view is the comparison of hypothetical cases. To we have in view is the comparison of hypothetical cases. To facilitate our understanding of the subject, let us call the position which the spring takes when left to itself its equi-librium-position; and as regards the artery, let un designate a plans parallel to the surface of the akin, and touching the sur-tace of the artery, when most distent, the plane of expansion, and a plane in similar relation to it, when least expanded, the alternative of the properties of the surface of the plane of and a plane in similar relation to it, when least expanded, the plane of contraction. It is ordent that, if the sphygmograph accomplakes its professed end completely and the plane of the order of the pulsa, and with the other during the interval. The question is, How ought the spring to be set in order to obtain as novement which shall approach this standard of perfection as nearly as possible? We may proceed one step towards answering this question without difficulty. They have been supposed to the standard of the contraction of the standard of perfection as nearly as possible? We may proceed one step towards answering this question without difficulty. They have be supposed to the contraction of the contraction of the standard of the contraction of the contracti

sphygmograph must be such that the under surface of the spring either coincides with the plane of collapse or lies within it—i.e., nearer the axis within it—i.e., nearer the axis
of the artery—for otherwise,
it will be affected by the
arterial movement only during a part of its extent, re-maining for the rest of the time motionless. This being understood, we may proceed to compare three possible cases, viz.:—1. The case in which the equilibrium-posi-



F10, 16.—Frame of Marcy's sphygmograph in profile, showing the arrangem (Explanation given in the text. The spring v is not used.)

part is the spring, which, by its mode of attachment to the frame of brass, is maintained in a fixed position with reference to the bones of the wrist and forearm. When the inheme of breas, is maintained in a fixed position with reference to the bones of the wrist and forearm. When the in-strument is in use, the end of the spring, or rather the ivory plate with which it is covered, presses on the artery and receives its movements. To amplify these movements a light wooden lever (a 'A), of the third order is used, which is supported by seed points (c). There is a second lever of the statehness of the spring (at B). It terminates in a vertical kinife-odge (c), and is traversed by a vertical screw (r). When the extremity of the screw (x) rests upon the spring above the ivory plate, every movement of the plate is transmitted to this lever (a n), and, by means of the kinife-odge, to the wooden lever (a A). The purpose of the screw (r) is to vary at will of the spring, without interfering with the mechanism by which the movement is transmitted. As the distance between the steel points (c) and the kinife-odge (n) is much less than the steel points (c) and the knife-edge (p) is much less than the length of the lever, the oscillations of the extremity of the lever (A') are much more extensive than the vertical movements of the spring. The lever ends in a metal point, which writes on a glass plate blackened by passing it rapidly backward and forward through the flame of a spirit-lamp trimmed with

The theory of the sphygmograph is simply this. The arterial tube being compressed between the immovable surface of the Vol. 1, 1871. No. 1082.

to arrangement of the levers.

which is not used.)

2. The case in which it lies nearer to the axis of the arter; and 3. The case in which it lies nearer to the axis of the arter; and the constantly or during its period of contraction

flattened against the bony surface.

Let us first suppose that the equilibrium-position of the spring coincides with the plane of contraction. The excursion of the spring begins from that plane, but stops short of that of expansion by a certain distance. If we call this distance n, of expansion by a certain distance. If we cut universitations we have the accuration of the sort this with the second case, in which we advance the spring so that its equilibrium-position lies (we will say) as far within the plane of contraction as it did before within that of expansion. Under those circumstances, its excursion will begin at a position nearer to that of that the second of the second more inconsiderable, the greater the arterial pressure. Hence, as a rule, a larger excursion is obtained in case 2 than in case 1, but the difference between them depends on the mean arterial pressure, being greatest when the pressure is least, and vice verd. The third case is that in which the pressure of the spring is so great that the artery, at the period which corresponds to the diastole of the heart, is flattened against the

bone. When this happens, it is easy to understand that just as, when the pressure is insufficient, the spring is motionless

during diastole, because it does not reach far enough, so here

during diastole, because it does not reach far enough, so here it is motionless during the same period, because it reats against a rigid surface; and thus we have an explanation of the fact, which at first sight seems rather surprising, that the tracings obtained with excessive and defective pressures are very similar.

to each other in their general characters.

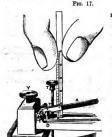
Let us now see what we have learnt by these comparisons. The professed purpose of the sphygmograph, as I have said, is to obtain on the moving glass slids a true delinosition of the successive changes of disanster of the sartery. To arrive at this under surface, it is a surface of the sartery. To arrive at this under surface, is at such a distance from the opposal surface of bone that the artery is pressed upon at all degrees of expansion, yet not so strongly pressed upon as to bring its walls into contact even when it is relaxed. Within these limits the variations of forms of the tracing—in other words, its departure on the same individual at different times yield closely corresponding forms. As, however, the results obtained by strong pressure are less subject to accidental error than those obtained with weaker ones, there is good reason for adopting the rule which I have written on the board, in all cases: In making a sufficient to flatten the artery; then weaken the spring until the seffects of over-compression disappear—i.e., until you find that the leyer continues to descend until the very end of disable.

that the lever communes to nescena until the very enu or unseton. So far, I have considered our instrument mercily as a means of So far, I have considered our instrument mercily as means of form, this -was call that it was intended to accomplish. So on after the instrument eams into my hands, in 1866, it appeared to me that something might be done to render it available, not only for recording arterial movements, but for the much more important object of obtaining a rough measuremagn of arterial had been supported to the continuous contractions of the support of the continuous contractions of the contraction of the greatest value, provided the information they give is reliable of absolute accuracy are, in clinical Medicine, often of the greatest value, provided the information they give is reliable to

so far as it goes

We have already seen that if the spring is so strong that the artery is either entirely or partially flattened against the surface of the radius, the fact is indicated by the cossistion of motion of the lever during the periods of compression. It is motion to the lever during the periods of compression to bring required to bring about this result is, at all dependent on the pressure by which the artery is itself distended. The question, therefore, is—first, to devise a means of varying the tension of the spring by some readier contrivance than that of Marcy; and, secondly, to measure the arrangement I show you, which is now usually adopted in this country by those who employ the sphygmograph for clinical purposes. (See explanation of figure.)

The brass frame, instead of being bound on to the arm by



Fo. 17.—Dr. Sandermork of M. Marsy applysmograph, modification of M. Marsy applysmograph, and the end nouset the hand by a block, which can be a more strong of the sand by a block, which was to be a more surface of the sand by a block, which was the sand of the sand of

bandages, rests firmly on the bones of the wrist (particularly the scaphoid) by a plate of brass, the under surface of which is covered with ebonite. In the middle of the upper surface of

this plate is a socket for the reception of the point of a finelycut xcrew, which revolves in it freely. Above, the serew can in a milled head (v), between which and its point it passes, first, loosely through a guide, which is of the same piece with the brass-plate; and, secondly, through a hole in the end of the

the brass-plate; and, secondly, through a hole in the end of the brass frame of the sphyrmograph (Fig. 18. y), in which it fits closely. This being the construction, it is scarcely necessary to explain that by turning the milled choice surface and the frame is varied according to the direction of revolution, and that in this way the pressure on the artery may be readily modified when the instrument is in use. The extent of the modifications thus produced, how-



P10. 18.-Pront view of the

ever, still remain undetermined, for they vary according to the form of the limb and the relative position of the arm and forearm at the time of observation. To measure them we must have recourse to another method which is attent when the arm of the still represent the still represent which it makes against any object pushed against it from below is determinable by the force which is exerted in pushing it. If, for example, I place the instrument upside down, and Place a weight of 200 grammes on what was before the under surface, now the upper surface, of the spring, I push it beak some fraction may be a surface of the surface opposed to it is that of 200 grammes' weight. Repeating the experiments with a series of other weights, I can in a similar way obtain other measurements of distance corresponding to them, and thus, yellow the surface of the deficion is either to measure the distance between the head of the stels kerew, the point of which reast on the upper surface of the spring, and the surface of the brass lever with a scale (as shown in Fig. 17), or, better still, to have the serve itself graduated. In either case, care must be taken to fix the writing leven the proper position (i.e., in a direction which before making the measurements.

meaning dis amounts full and these particulars, because it is in general desirable that every observer abould graduate his own instrument. Let me add that, in buying a phygmograph, ears should be staken to see that the spring is adapted for its purpose. It must be of such strength that, when fully deficited, it makes a pressure of not less than 400 to 450 grammes on the artery, and must be so fixed that any pressure between 50 grammes and the pressure already mentioned can be obtained. The under the control of the pulse; in other words, for judging approximately of the pulse; in other words, for judging approximately of

the arterial pressure.

OBSERVATION XXI.—METHOD OF DEMONSTRATING THE MODE IN WHICH THE ARTERIAL MOVEMENTS ARE PRODUCED BY EXPERIMENTS WITH THE SCHEMA.

We are proposed to the study of the resultation of the proposed proposed to the study of the resultaform of the proposed proposed to the study of the resultafirst investigating the phenomena of pulsation as they present
themselves in an artificial artery; that is, in a schema in which
water is projected at intervals along an elastic tube under
conditions similar to those which exist in the circulation. The
apparatus, you see before you. A number of similar contrivances have been described, from the well-known simpleparatus of Marsy. My apparatus does not, in its external form,
in the least resumble a heart and arteries; but this is not of the
alightest importance, provided that the physical conditions of
the circulation are junitated.

The heart consists of a tube, closed at the upper end, and connected at the lower end by two branches—on one side with a cistern, at a level of some eight or ten feet above this table; on the other with the experimental tube which represents the arterial system. These communications are controlled by valves fixed at opposite ends of a horizontal bar in such a manner that the same act which closes the one must necessarily open the other. Of these valves, the one represents the semilunar the other the auriculo-ventricular valves of the heart. By means of a spring (shown in Fig. 19 to the right of p), when the apparatus is not working, the former is kept closed, the latter open. Under these circumstances the water rises, as you see, into the tube, course, differences, but they present the same general characters. It will much simplify the description of them if I may call the tube the artery, and may at the same time take for granted that we understand elecation of the lever to mean expansion of the tube, and depression, contraction, and if we adopt a phrascology based on this assumption. You see at once that the open-

Fig. 19.

Fig. 10.—Dr. Sanderson's schema for demonstrating the nature of the arterial movements. A, glass tabe, which represents the heart, n, the time by which a communicator with a castern at a height of ten or twelve feet above it. A much amiltie heat the state of the communication with a castern at a height of ten or twelve feet above it. A much amilties that the one opening the other x, commonement of the experimental tabe, which is of black vulcanite. At r the tube communicates with a long vertical tabe of glass, only part of which is seen; it is closed at the top, and usually able of from x p is packnock. At to the tube passes it is closed at the top, and usually able of from x p is packnock. At to the tube passes it is closed at the top, and usually able of from x p is packnock. At to the tube passes have a superior of the contract of the superior of the contract of the passes of the contract of the passes of the

compressing the column of air which it contains in a procompressing the column of air which it contains in a pro-portion which is determined by Marriotte Isw. If, as in the present instance, the pressure is about one-third of an at-mosphere, the volume of the enclosed air is diminished in the proportion of 2: 3, and so on. When, by depressing the opposite end of the lever, the acrit ovaly is spenner, and the mitral closed, the compressed air suddenly expands, and forces on the water which the tube contains into the sorts. We shall see, when we come to consider the modes of contraction of the heart, that the above is as close an imitation as could be made by any artificial means. Just as, when the heart contracts, it compresses its contents most energetically at the outset, while its force rapidly diminishes towards the end of the systole, so here you observe that the most rapid move-ment of the column is at the first moment after the depression of the lever.

of the lever:

The attential tube, as you see, passes under the spring of the partial points of the partial points are all the distance of about a meter from its commencent, and its continued for two or three more metres, finally ending in a receptable for waste. The first experiment I propose to make has for its object to show you that the wave which is produced in this tube, just as it is in the attery, is not, as one might expect, a mere expansion followed by a corresponding contraction, but that it consists of a complicated or succession of expansive and contractile movements, which are always of the same nature.

Here is the artificial pulse we have just made, and there is the natural one taken from the living radial. There are, of

F16, 20.

Fro. 21.

Fig. 20.—An artificial pulse-tracing. Fig. 21.—A natural pulse-tracing.

ing of the aortic valve determines a sudden expansion of the artery; that so long as the heart continues to act the vessel remains full; that the cessation of the injection of liquid from behind determines a contraction of the artery, which is as rapid as the previous expansion. Next you observe that the artery has no sooner accomplished its contraction than it begins a second expansion inferior to the first, both in extent and rapidity, and then finally contracts, continuing to get smaller till the acrtic valve again opens. Let us for the moment confine our attention to the first expansion and the contraction which immediately follows it. The meaning of these movements and their immediate causes have been With much disputed. schema, dispute is impossible; for the mechanism which represents the heart is under our control, so that we may vary the mechanical conditions in any way that seems likely to serve the end either of research or illustration. No one doubts, of course, what the general meaning of the expansion is. records between the opening and It, however, presents one characteristic of the connected by two cords, one rather in the tracing which does not strictly belong to it. As I have already stated, the artery, like the natural heart, contracts with constant in the contracts of the contract of the contracts of the contract of

contracts with greatest vigour at starting. Consequently, the expansion of the artery is very sudden at the outset, diminishexpansion or the arrory in very success at the other conting in the rate as it goes on—at first gradually, subsequently more rapidly—until it coases. If the lever followed this movement precisely, it would describe a curve nearly corresponding to that which would be described by a heavy body projection of the property of the continuous con vertically into the air, it the monoton of sear a body count of transferred to a sheet of paper or other surface progressing horizontally at a uniform rate. You see plainly enough that this parabolic form is not distinguishable in the tracing actually obtained. The reason is, that the lever receives such

F10. 22.



10. 22.—Tracing of a natural pulse, showing that the lever is jerked up at the beginning of the expansion. The true tracing would be obtained by connecting the angle at the commencement of the ascent with the

an impulse at the moment that the expansion begins, that it rises of itself considerably higher than it would do if it closely

rises or itself considerately higher than it would not it is closely followed the artery. But soon it is ris ris is chantactellation falls back—often, but the consideration in the arterial surface. (a) The next step is to show that the descent of the lever mean the cossistion of the heart's action. To demonstrate this, I use an apparatus which I will now describe. Its purpose is to write the constant of the con on the plate of the sphygmograph the duration of the contraction of the artificial heart. It consists of a cylinder of boxwood (see

(a) The accuracy of this explanation has been fully demonstrated by the researche of Mach, who has modified Mary's sphygmograph by connection the purpose with the writing lever, not by an internolate lever and infine-edge, but by a vertical arm having a hinge joint at either end. In trucings takes with Mach's aphygmograph, her accurate the contraction of the property of the pr

Fig. 19), the steel axis of which rests horizontally on bearings so placed that the cylinder revolves in a direction at right From one side of the cylinder a steel needle projects. from it which, when the cylinder turns, makes a mark on the smoked surface. Hound one side of the cylinder runs a cord of span silk, the two ends of which stretch, one from either side of it, to the point of a vertical arm (L); this arm springs from the and shnt. Of the two cords, the upper one is rendered partly elastic by the interposition of a short length of caoutchouc.

You see that, so long as the aortic valve is closed, the needle remains in contact,

but the moment I open it, it is withdrawn, and I obtain.

first, an upper horizontal line, broken at regular in-tervals—which are, of course,

limited in time by the open-ing and closing of the aortic

valve—and, secondly, a pulse-

tracing, which may be compared with it.

correspondence between the length of time the heart is acting, and the time which elapses between the begin-

Fig. 23.



Fig. 23.-Tracing obtained with the 10. 33.—Tracing obtained with the schema. The spaces between the horizontal lines correspond to the periods during which the aortic valve remained open Fach coin-cides with the interval between the commencement of the accent and the beginning of the following ent of the lever.

ning of the expansion and the commencement of the contraction, affords evidence that the

latter is dependent on the former.

We now pass to the second expansion. How does it happen that the artery, having once contracted, does not remain so? The answers to this question are various, but with our schema, and with other experimental methods which are applicable, we can readily show that, of all the supposed causes of the phenomenon, which is commonly known as dicrotism, one only

is possible.
It has sometimes been advanced that the second expansion It has sometimes been advanced that the second expansion is merely a result of mechanical peculiarity in the instrument employed to demonstrate it. The easiest and shortest way of negativing this supposition is the substitution of other methods of demonstration for the sphygmograph. For this purpose, I have attached to our artificial artery a vertical purpose, I have attached to our artificial artery a vertical to the state of the liquid rushes into the tube, and compresses the air it contains. If you will watch the column closely while I make a succession of pulses, you will see plainly that each is dicrotous-that the column rises, falls, rests for a moment, rises again, and finally subsides, just as the instrumental tracing does

Another experiment, which is equally conclusive, has been lately suggested by Landois. I place on my wrist, over the radial artery, a little flat metal box as large as a crown-piece, and twice as thick. One side of the box (that next the artery) is formed of thin vulcanite cloth, so that the whole forms a tympanum. Its interior communicates on one side with a fine gas-jet; on the other, with the gas-tap by an ordinary con necting-tube. The edge of the tympanum rests, by padded projections, on the bones of the wrist and forearm, and a button of cork is interposed between the artery and the caontchouc membrane, so as to communicate the motion of the one to the other. If, then, I allow a very feeble stream of gas to pass into and ont of the tympanum, and light it at the orifice, you will see that the flame rises and falls rhythmically with the pulse, and that each rise is followed by a second one. inferior to it in height.

Having thus satisfied ourselves that dicrotism is a character Having thus satisfied ourseres that uncrusing a substance, which necessarily belongs to the pulse, we may go on to consider its cause. The first point to demonstrate is, that it has nothing to do either with the closure of the sortic valve or the cessation of the contraction of the heart. If, by opening both cessation of the contraction of the heart. If, by opening both valves at the same time, I produce a continuous current, and viously applied to the artery, the sudden cessation of the cur-rent declares itself by a contraction, the parabolic curre of which is uninterrupted—there is no dicrotism. If I reverse the experiment, and anddenly admit the stream by simultaneously opening the sortic and mitral valves, and keeping them open, the artery expands at the moment I do so, and remains ex-panded; but the first ascent is immediately followed by a second.

whatever may be the cause of the phenomenon, it is plainly connected, not with the closing, but with the opening of the current—with the diastole, not with the systole, of the heart.

In other words, the second expansion is a postpaned result of that disturbance of pressure-equilibrium which is produced in the arterial system at the moment that the heart contracts, independently of any subsequent movement or action of the heart itself. Before inquiring further into the nature of this disturbitself. Before inquiring turther into the nature or tan ensuring anea, or the mode of its operation, we must study another point anea, or the mode of its operation, we must study another point postponement of the pulse—the fact that the pulse is feliat the visit considerably later than in the caroticles, and later in the posterior tibial than at the radial. We shall see in the next that the meaning of this is, that the smaller and more distant arteries attain their greatest distension more slowly than the larger and nearer ones; and that the reason why the radial pulse is felt later than the carotid is not so much that its expansion begins later, as that it culminates more gradually,

ORIGINAL COMMUNICATIONS.

OPERATIONS FOR VAGINAL FISTULE. By LAWSON TAIT, F.R.C.S.E., etc.

There is certainly no advance in Surgery of which we may be more justly proud than that by which, of late years, we have been able to relieve the terrible suffering entailed by a vaginal fistual. The operative measures for the cure of this affection are not yet complete, and they are still somewhat open to the objection made to them in 1855 by a very dis-tinguished Surgeon, who wrote that this condition "enables us to consign to the Surgical arsenal as curiosities a great variety of instruments, no longer of use, but which will remain as testi-monials of the efforts of modern Surgery to care or relieve a miserable state." Many of the instruments invented for the operation for vesico-vaginal fistulæ have been terribly ingenious, and correspondingly expensive; but none of them that I have yet seen can accomplish any feat which simpler means cannot affect. No complicated wire twister can do what the fingers can; and none is so safe, because no apparatus can appreciate tension. Portes-aiguilles are cumbrous, and seldom effective, tension. Forces algumes are cumbrous, and season encetive, while they are always costly. None of the many complicated needles invented for this, and the kindred operations for cleft palate, can, as far as I have seen, do what the two simple-needles figured below can; and as I have always made it a rule in my own practico never to use a special apparatus to do what can be effected by one of more ordinary purpose, I make

no apology for pressing these on the attention of those who have to perform such operations. One is the ordinary tubular needle of Simpson, which, in making a stitch, I always introduce first by the left hand. I then make slight traction on the wire, so as to lift sugnt traction on the wire, so as to litt its loop up from the point of the needle, and, introducing the other needle through the other flap, opposite the first, the wire is easily caught in its notch, and the stitch completed. The mechanism of this second needle is, I fear, too simple to be a novelty in Surgery; but as I have not yet seen a description of it, or of its application to the operation for fistula or cleft palate, whilst I can find an abundance of more complicated and less effectual instruments, I venture to claim it as an original suggestion. In my paper on the "Treatment of Cleft Palate" in the British and Foreign Medico-Chirurgical Review for August, 1870, I have figured it, of smaller size, amongst a set of instruments adapted for staphyloraphy and in that operation I have found it of signal service. In the case of a very small fistula, or one high up in the vagina, these needles are of great ser-vice, for a little practice enables one to insert a stitch by their means without any of those preliminary threads or double loops which formerly added to the tediousness or irksomeness of the operation. The absolute certainty, operation. too, which the two needles give of the



points of insertion for each stitch being exactly opposite is a great recommendation for their use. My experience of them has been as yet limited to two cases, but in these they served no so well, and under somewhat trying circumstances, that I believe they will be found equal to any emergency.

mo so well, and under somewhat the libeliove they will be found equal to any emergency.

Case 1.—B. C. was confined of her fifth child, in June, 1868, Case 1.—B. C. was common or ner nitre came, in sume, record and was allowed, by an unqualified Practitioner, to remain thirty hours in acute labour. She was ultimately delivered by the long forceps by Mr. Secker, of Wakefald. I saw her with Mr. Secker, a few days afterwards, for an attack of metritia, and I gave it as my opinion that some sloughing would probably take place, and a fistula form, if she survived the pro Three weeks later I again saw her, and found that a large slough had separated from the lip of the uterus and anterior wall of the vagina, but the tissues were still in such a state that none but palliative measures could be employed. weeks later I again saw her, and found that, in spite of the use of the catheter, there remained two fistules—one, the larger of the two, being almost within the os uteri, and another, little more than a perforation, about three-quarters of an inch lower down. On September 24, I pared the edges of the lower opening, and inserted easily three stitches, close together, by means of the two needles. From the position and size of the fistula I could not, of course, see the points of the needles; but it will be easily understood that it is not necessary to see them. I removed the stitches on October 4, pared the edges of the other opening, and inserted five stitches. These were removed on the 14th, and a complete cure was effected. During these operations, I had the kind assistance of Messrs. Secker. Horsfall, and Whiteley.

Case 2.—M. S., aged 17, was confined of an illegitimate child in May, 1863, and is supposed to have been two or three days in labour. It is worthy of notice that many cases of fielula occur in unmarried women, and it is due no doubt to their attempts to conceal their condition. After her labour, got well, found that her water constantly dained from her. After many months of suffering, she was placed under my care by the author of it, and I found that their water constantly dained from her. After many months of suffering, she was placed under my care by the author of it, and I found that her had a small fistula immediately below the auterior lip of the os uteri. It would not shuft a sound, and its position was only successfund after that the position of the suffering the suffe

and the whole thing a wretched follow. Dr. Whitworth was wrey annious that 's should try to take a fige from "conservation that 's should try to take a fige from "conservation" in the work of the should be should be

Birmingham.

A NEW OPERATION FOR ENTROPIUM.

By JAMES McCRAITH, F.R.C.S., Surgeon to the British Hospital, Smyrna.

I xxvo of no cases in Surgery more annoying to both patient and Surgeon than those of entropium, and of its lesser degree, trichiasis. This disease depends essentially on the contraction produced by a cicatrix. It is perfectly manageous to stricture of the urethra. The original cause of both, muco-purulent inflammation of a mucous membrans, The epithelium is shelt of this must exist (the cicatrix is a groof thereof); in the lide a state of "granular lid" is produced, which ultimately ends in cicatricial contraction, and, according to its extent and position, produce inversion of the whole row of cilia, or of one or more. In the urethra, after the continuance of chronic granular lid, the result is stricture. In every case of entroparament, the contracted times drawing in on the eyebal cither the entire row or one or more of the cilia, according to the extent and position of such centracted times drawing in on the eyebal cither the entire row or one or more of the cilia, according to the extent and position of such cicatrix.

There are some few cases of temporary entropium, as of temporary stricture, depending on spasm, or temporary swelling, or puffiness of the lid, in which such cicatrix, of course, does not exist. But the real diseases has, as its annionical cause, this cicatricial contraction, and is always preceded by the state known as granular lid. The same in the cases of true

This modification gave occasionally good results, but was uncertain, and, on the whole, unsatisfactory, and was a painful operation.

Secondly, in cases of complete inversion of the whole range of lashes, we divided vertically, at inner and outer cantilus, the tarsal cartilage in its whole extent (avoiding, of sourse, the puncture at inner canthus), and then passing a ligature at inner and outer angles, we turned up the entire cartilage, fixing it by strips of adhesive plaster on the foreboad, as recomting the control of the control of the control of the greater or less success, but on the whole was not mainly and provided the control of the control of the control of the whole combining it with the first-described operation, the result was more satisfactory—the operation more painful, of course. This also uncertain and unsatisfactory

course. This also uncertain and unsatisfactory.

Thirdly, we have attempted, by laying bare the cartilage, to slice away with a very sharp knife the bulbs of the cilia lying inabsided in the cartilage. This is a difficulty proceeding, a design of the control of

took a wrong direction, and gave trouble. Still this gene-

rally is a useful proceeding.

The preceding was pretty much my practice and experience raily is a useful proceeding.

The preceding was pretty much my practice and experience in these troublesome cases, when, a few months since, a young juin of left open. The entire row of cilis were required at turned in, and swept the eye. He was a soldier, but discharged on account of the state of his eye. It was the result of puralent or muco-puralent orphthalmia, which existed in a chronic state for more than a year. Here some effectual measures were necessary, as otherwise the ultimate loss of the eye was certain. Upon turning ny he lid, the clearity (result of muco-puralent ophthalmia and granular lid) was apparent, running along the entire entent of cartilage, paralle to border, and the continuation of the continuation of the production of affair, I had no confidence in any of the usual operations as described above. Upon considering the case, it occurred to me that the cartilage, being the east, it has cause the case must be the part treated. I saw also that the incisions of this part as usually practised were on a wrong principle. The vertical incisions must leave the contraction in each section or part just as it found such contraction; whereas, if an incision were made parallel to the border, or whereas if an incision were made parallel to the border, we have the contraction in each section or part just as it found such contraction; whereas, if an incision were made parallel to the border. traction in each section or part just as it forms such contrac-tion; whereas, if an incision were made parallel to the border, and between the latter and the cicatrix, the border must by such incision be freed, and will naturally resume its normal size inclusion or recel, and will naturally resume its normal direction. Upon explaining this view to my son, Dr. J. F. or the property of the property of the property of the row of lashes were turned in, sweeping the eya, appeared very suitable for the new procedure, I put it in practice. Turning up the lid, I made a horizontal incision parallel to the border, and about on a level with the seat of the bulbs, including the whole extent, or very nearly, from one canthus to another, avoiding the duct at inner canthus; and, making another incision parallel to the first, I removed a narrow slip of the cartilage, less than the twelfth of an inch in breadth. The result was most prothe twelfth of an inch in breadth. The result was most pro-mising; the border of the lid and the row of cilia immediately missing; the border of the lid and the row of cilia immedialely resumed their natural direction. I was quite pleased with the immediate result; none of the many hundreds of operations. I had performed myself or seen performed by others were so satisfactory. The ultimate result also was perfect; and as the gap made is never repaired by cartilage, but by a membrase which would leave the border of the lid free, I expect that the result will continue perfect. I have succeeded by the old operations in relieving patients for a year or more, and yet eventually the result was unsatisfactory. I very much wish certuing the result was unsatisfactory, a very much wish can be a supported to the continue of the property of the continue perfect. The property of the property of the continue perfect is a property of the property of the continue perfect. it promises much. Smyrna.

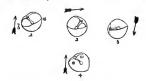
ON THE ACCUMULATION OF SERUM IN THE TYMPANIC CAVITY-DIAGNOSIS AND TREATMENT.

By Mr. EDWIN MILLINGEN. Clinical Assistant to Dr. A. Politser, University Lecturer in the General Hospital, Vienna.

CATARRH of the mucous membrane of the tympanic cavity is a disease of frequent occurrence, and it has been noticed that this affection in some cases gives rise to an effusion of serous exudation, which, owing to its consistency, cannot cccape into the fauces through the narrow outlet of the Eustachian tube. Accompanying oparity of the membrana tympani may prevent the Surgeon from forming a diagnosis by mere objective inspec-tion. If, however, the membrane is normal in its transparency, not only may the fluid be detected, but its movements easily followed: a phenomenon first observed by Dr. Politics.

followed: a phenomenon first observed by Dr. Politzer.
The appearance of the membrana tympani depends on the
The appearance of the membrane when the fluid does not
occupy the whole tympanum.
On inspecting the membrana tympani, it will be noticed that
the handle and short process of the mallena is reddened, and that a sharp dark line crosses some part of the membrane: this is the line bordering the surface of the fluid. It is selfevident that the membrane will possess a different appearance on either side of the line, not only because the colour of the on the same of the membrane lying in immediate contact with it, but also because the same

fluid acts as a light-refracting body, and thus tends to increase the contrast with that part of the membrane on the other side of the line, behind which there is no fluid. The line of demarof the line, behind which there is no fluid. The line of demar-cation between the two spaces may be compared to the line bordering the surface of some liquid in a transparent vessel. The colour of the part through which the fluid is seen is of a greyich yellow, with a slight greenish tint in it. The usual triangular spot may be brighter and more uneven, and occa-tion of the membrana tympani. The position of the fluid may be changed, and this is done by moving the pastism's head. Obey-ing the laws of specific gravity, the fluid runs into the deepest parts of the tympanic cavity. For this reason it may happen that the fluid, which was seen clearly when the patient holds habed upright, disappears bottly or partially when he stoops serum to run towards the ostium tympanicum of the Eusta-chian tube. Bubbles are sometimes seen through the memchian tube. Bubbles are sometimes seen through the mem-brane; but this is more likely to be the case after air has been forced into the cavity.



Fio. 1.—Head in upright position (left ear), position of the fluid marked by the line from a to b. Fio. 2.—Head leaning backwards; and in Fio. 3, head stooping forwards. Fio. 4.—Bubbles at the place where they usually make their appearance after air is forced in the tympanum through the Eustachian tabe.

Apart from the visible changes on the membrana tympani, another very interesting phenomenon is worthy of attention.

In all cases of ear disease, when the labyrinth is normal, a In all cases of ear disease, when the labyrinth is normal, a vibrating fork, placed on the saggital suture, is sure to be heard louder and more distinctly in the ear which is least capable of receiving outward sounds. Now, it often happens, in cases of serous accumulation in the tympanum, that the watch is beard but faintly when the head is key turgipt. As soon, however, as the head is turned downwards, the watch is at once heard fourier. If a vibrating raning-fork is placed at the same time on the saggital nature, it will be noticed that the same time on the saggital nature, it will be noticed that the same time on the saggital nature, it will be noticed that the same time on the saggital nature, it will be noticed that the same time on the saggital nature, at the laby the notice of the taming-fork is preceived faintly, and touch the watch is heard indistinctly or not at all, and the tuning-fork very loud. But when we take into consideration the fork very loud. But when we take into consideration the various intellectual powers possessed by different patients met with in practice, we must expect that a great percentage will not be competent enough to determine such slight variations in the delicate perception of sounds. These variations, according to the laws of sound, must exist, and illustrate very forcibly the fact that obstructions to outward sounds act at the same time as obstacles to the escape of vibrations transmitted from within, and that, for this simple reason, the tuning-fork placed on the head is heard better with a diseased ear when the tympanie cavity alone is the seat of the affection. People affected pasis cavity alone is the seat of the affection. People affected with this complaint have a feeling of fulness in the ears. They also experience a temporary diminution or annelioration in the power of hearing, and this may often depend on the position of the head. Some say they hear better when they are lying on their back, and others when they are stooping forwards. Another feeling that some patients complain of is that there must be some movable body in the ear. Noises are not constant

not constant.

Andly.—When the whole tympanum is full of serum, the
whole membrane is shining, and of a transparent bottle-green
colour; there is a peculiar glassy look about it, which, when
once seen, can never be forgotten. The functional disorders in
such cases are more often complained of.

It is not always that patients present themselves when suffering under the immediate effects of the catarrh, but the secretion may nevertheless be present. The presence of such exudation is highly injurious to the mucous-membrane lining the tympanum. Hyperæmia, which is manifested by reddening of the handle of the malleus, is more or less present, and as it takes a chronic form, it leads to the new formation of connective tissue in the mucous membrane, thus causing hypertrophy, which extends to the mucous membrane covering the articular which extends to the mucous memorane covering the articula-tions of the ossicula. Their movements are thus interfered with, and considerable deafness is the result. Hence the prognosis is not very favourable in cases of long standing, and depends on the degree of functional disorder. But, on the whole, there is no disease of the ear whose symptoms are so characteristic. and whose treatment is followed by such good results.

THE CENSUS OF 1871.

THE following is an extract from a very interesting circular from the pen of Dr. W. Farr, circulated by authority of the Registrar-General. We feel sure that our readers will do all they can to comply with the Registrar-General's concluding request :-

"A knowledge of the facts about the English people is in itself useful and gratifying to a liberal curiosity; precisely as is an acquaintance with the plants and minerals and animals of the world, and the stars of the heavens, whose 'multitudes' have been numbered by scientific men.

It is, moreover, well established that the relations of men to each other, and all their acts, are governed by universal laws, which can be deduced from the observations of which the census supplies the most essential part. Some of these laws are too recondite for casual discussion, but the doctrines of population and of life insurance may be referred to as of

obvious importance.

The area of these islands is limited, and it is a matter of no The area of these selands is limited, and it is a matter of no meall interest to know how many people there are to be fed, at example, the seland interest of the seland interest by subsisting marriages; how many are dependent on the several kinds of industry, deriving materials from the produce of the soil, or from the wider fields of foreign commerce. The census supplies answers to all these questions, and, with other facts, shows how population is increased or diminished by marriages at different ages, by the different species of

industry, and by emigration to our vast colonial possessions.

The numbers of fighting-men, as well as intelligence and wealth, determine the position England holds in the presence of the other great Powers of Europe; and are the measure of the influence which it can exert in the cause of freedom all over the world. The census displays to her enemies the force invaders have to dread, and to friendly States, the numbers of

their friends in England.

The first census was taken under Mr. Pitt's administration in 1801. It was the year of the union with Ireland; a year of famine, and a year of sanguinary war with France having the Northern Confederacy for its allies. England in 1871 will

take her census in peace.

The population of Great Britain was estimated at 7,392,000

The population of Greet Britain was estimated at 7,392,000 in 1751. Manufactures and the large towns increased, but emigration was commercing, and some country tillages were considered to the control of the control of the control of the population. This gave rise to a protracted controversy, which, in the critical state of the country, it was important to clear up. The population of Greet Britain was hence enumerated in 1801, and amounted to 1,034,623, which, with that of Terland, made above 16,000,000. This was a triumphant reply to the doubts of those who despaired of their country.

despaired or their country.

Notwithstanding the war, the population increased, as the census showed, at the rate of two to three millions every ten years until 1841. Then immense emigrations took place; years until 1941. Agen Immense emigrations took place; there was a depopulating famine in Ireland, which had an imperfect poor-law, and cholers was epidemic; yet the population of Great Britain increased, and although the population of Ireland fell off, the enumerated people of the United Kingdom, including the islands in the British seas, amounted to

27,724,849 in 1851, and to 29,321,288 in 1861.

27,772,480 in 1891, and to 29,321,298 in 1991.

Since those dates there have been great emigrations; but the marriages have increased, the births have exceeded the deaths, and the mortality of the towns has been diminished by sanitary measures. An increase of the population may be expected; but its attent, and the particular classes which have increased or declined, in towns or in the country, can only be determined by which comment to be taken on April 21.

determined by the census to be taken on April 3.

The 'number of souls,' in the 'expressive language of the old writers, will then be known, and will remind the nation of

the extent of the institutions for the advancement of education.

the extent of the institutions for the advancement of education, religion, and justice, required to keep pace with its numbers. The information which the census supplies admits of innumerable practical applications. It is required for determining the state of the public health; and, by pointing out the variations in the rate of mortality, and the intensity of diseases under different circumstances, will lead to the removal of the real causes of national suffering and decay.

real causes or national surrering and decay.

The census was taken by the legislators of antiquity; it is now carried out in every civilised country. But the English census has in it some peculiarities. It has no connexion whatever with rates and taxes. There is nothing approaching wanterer with rates and taxes. There is nothing approaching to a poll-tax, and no one has anything to dreaf from the census inquiries. There is no conscription in England, the services by sea and by land being filled by volunteers. The inquiry elicits no real secrets, as the information asked of each man is known approximately to all his acquaintances; and even in the known approximately to all his acquaintances; and even in the delicate matter of years numbered by gentlemen, or even by ladies, it is found that, although many may look, they are soldom thought, younger than they are, even by their friends; so that to tell the truth is the right and the prudent

measure, in disseminating information among the poorer classes, and in persuading them, or even aiding them, to furnish exact returns, the operation will undoubtedly be as successful as it was in 1861, when the census was taken withont the infliction of a single fine under the penal clauses of the Act of Parliament."

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the undermentioned Districts.

			Week	ending		
Districts.	Feb. 18.	Feb. 25.				ar. 18.
West-	Cases.	Cases.	Cases.	Cases.	Cases.	Sent to Hospita
Chelsea	10	12	9	2	P	Trooping
St. George, Han-				-	-	
over-square .	1 40	14	16	7	19	11
St. Margaret & St. John, Westm'str.	100	47	30	27	P	_
John, Westm'str.	, 100	**	00	21		_
St. James, West-	14	8	3	3	8	3
minster	,		-	-	-	-
North-	_					_
St. Pancras	P	64	62	69	63	2
Islington	36	31	62	23	34	9
Hackney	2	30	36	41	31	14
CENTRAL-						
City of London .	2	20	22	17	13	3
St. Giles-in-the-) p	10	6	10		_
Fields) .		-			_
Holborn	14	5	2	3	3	2
St. Luke's	P	?	20	27	18	10
EAST-						
Whitechapel .	31	31	34	32	16	P
Poplar	P	P	9	8	P	-
South-						
St. Mary, Newing-	25	8	16	19	2	
ton	,		10	Ta	r	_
St. Olave, South-	9	4	2	9	1	
wark		•	2	9		-
St. George - the-	l p	3	P	17	- 5	3
Martyr,Southwk.						•
Bermondsey .	P	20	1.5	P	P	-
Lambeth	18	28	12	28	33	28
Clapham	P	5	28	17	29	7
Battersea	P	14	P	13	P	Green
Wandsworth .	P	5	4	P	3	2
Putney	_	_	_	1	P	_
Streatham	P	P	1	?	2	P
Camberwell	P	5	26	14	13	7
Greenwich	P	_	2		P	_
Lewisham	P	2	1	16	2	P
Plumstead	P	4	1	1	4	_

LATTICE REPORTS OF HOSPITAL PRACTICE

FURTHER HOSPITAL EXPI

Life is	1 1 1 1 1 1 1 1 1	4 1 241 17			All has yes	4 40 11	· Contin
ntifeac-	ora muldhan al		e med been nother al	THE NUMBERS IN ORDINARY TY	E [329] dive the	to to Me. Wetta's person	
THE RELLEG		Transfer P	ned has used	10) B. Rier & 7	17 7 70 0	IN THE PART OF PERSONS AND PERSONS ASSESSED.	PRACTICE, BOTH MORP
ជាតិទទួកការ ក្រាព្ធក្រាក្រ	hack, Phini		S. VOLUME THE RES PROVIDED.	A AP30.110 **** T	-		
CIN I		of ion.	distribution	Duration and	Previous	Uterus: Situation, Displacements,	. ya -
dia =	Medical	Date	E' Condition.	Progress of Discusse;	Treatment and	Mobility, and Length	Diagnosis,
d tom	-	62	1 had total	Measurement.	Tappings.	of Cavity, Catamenia.	
	-	-		- significant			1.00
cxlix.)	Mr. Thompson, Nottingham	June 9, 1869	3 Married 4 years;	After last confinement remained	Five tappings between	Oct., 1868: Uterus high,	May, 1969: A large
o reila o	e me		. dident 4h years.	Alter that commerces tremamed large; increased in size very gradually; distinct fluctuation around and at right side of unibilities; superior and inferior applicatio rems dilated; tenderness in right hypochondriae region; liver pushed upwards to fifth ribs area of beach in fourth	May 28, 1809 (1set hap-	inch; os open; cervis	semi-solid below; a b
91 11 75	sforts () the	-	youngest 16	bilious; superior and inferior	thick, ropy, neutral	in pelvis, but lower sog-	nedulated mass bet aterus, felt both by va
1	T . A.	1	[~1	epigastrio rema dilated; tender- pess in right hypochondriac re-	thud, sp. gr. 1022; large and small colloid	ment felt through fornix	and rectum, pressing
3 / 1	-110	1		gion; liver pushed upwards to fifth rils; apex of heart in fourth	corpuseles in state of	Catamenia irregular for last 12 months	of upper part of tur
1 10				intercostal space, one inch in-	rately decay	Bret 12 Blothing	distinctly visite
DE 1 17	r		- 10	sale nipple; great emaciation; amornic; girth 39 inches			
es el.)	Dr. Peaceck, -	June 23,	41 Married 25	Eighteen months; gurth &r inches; codema of legs and ab-	Never tapped	Large, retroverted; 4j inches; true pelvis free.	Ovarian cyst, chiefly
3	1	1	f dren in white thirdest	dominal wall		Catamenia regular	POCHER
d	w		age 19				
20							
eli.)	Dr. Wyne, Ros- tellan, Cork	June 30,	27 Married 9 years; 4 children: 3	Begin to increase after birth of first child 7 years ago; garth 35	Never tapped	Anteriexed; 3 inches; no tumour in true pelvis.	Adherent multilo
			stillborn at 7 months and 1	inches		Catamenia regular	hard in some ports
-			abortion at 4				
n1 1			months				
is4	Dr. Thomas,	Oct. 6 1809	32 Single	Two years; gradual slow in-	Samuel Annual	Normal. Catamenia re-	Pose sunt chieffer
clii.)	Nottingham		and and an arrangement	crease; girth 37 inches	Never injana	gular	locular
11	114		1				
Miii.)	Dr. A. P. Stewart	Oct. 27,	43 Married 19 years; never	Increwse began 16 months before; empid host 8 or 4 weeks; girth 46	29 pints of ovarian	Normal, Catamenia ccased	Ovarian cyst burst
1	2	1000	preguant	inches; annearca	perstonest cavity on	to months	periodical cavity
					Oct. 16, 1869	-	
	Ł	-					
(eliv.)	Dr. Smith, Wey	Nov. 3,	26 Single	Three years; slow, painless in- creuse; girth 37 inches	Never tupped	Normal. Catamenia re-	Ovarian cyst, chiefly
,	- mounts	1000		Crease, gards of agrads		firmer .	100 mag
	0.1	1					
	o n.		6 e.g) //e.g				
	Mr. Davis.	Nov. 10.		**************************************			
clv.)	Brentford	1809	never pregnant	Eighteen months; rapid increase; girth 38 inches; cedema	before operation; only		Ovarian tumour; cl peritonitis; temper
					a little viscid matter escaped		102.8
9		1			Conspice		
41	Mr. Hunter,	Nov. 24.	20 Single	Slow increase for more than	Never tapped	Small; 25 inches, Cuta-	Ovarian evst. chiefty
(clvi.)	Pontypridd	1969		years; girth 37 inches		menia regular, but with	locular
	1	1				great point	
					-	1	
		[11.			,	
142	Mr. Webster,	Dec. 8,	35 Single	Slow increase for about: a year	Never tapped	Normal; 4 inches. Cata	Free ovarian cvat
(clvii.)	Bristof	156		girth 35 inches	1	menia regular	1

IN MEDICINE AND SURGERY.

RIENCE OF OVARIOTOMY.

WELLS, F.R.C.S.,

and to the Samaritan Hospital.

from p. 189.)

AND PRIVATE; THOSE IN BOHAN NUMBBALS (CELLE.) GIVE THE SERIES OF HOSPITAL CASES ONLY.

		OPERA	THON;			PROGRESS AFTER OPERATION:	1	And the removable
Situation and Length of Incision.	^ Adhesions.	Pedicle.	Hamorrhage.	Which	Description of Tumour.	Temperature, Pulse Respiration, and After-treatment.	Beauft.	Date of Discharge and Subsequent History.
Petween umbilicus and synaphysis pubis; 5 to 6 inches	Parietal, omental, and broad band to left filze fossa; extensive pelvic adhesions	to both pedicles	very troublesome	Both	Trabeculated, proliferon collect cystemic proliferon collect of the convey affected by fact transverse containing collect cystemic containing collect containing collect containing collect containing collect containing collect containing collect c	and champagne	Died 27 hours after	No post-mortem
Midway between umbilicus and symphysis pubis d inches	4	Short; left side tied in two per tions, and figa- tures returned	-	Left	17 pints fluid; 1 lb. 3 or solid; thin-walled pro- liferous cyst, with ver- large veins	Gradual rise of tem — perature to 104 6 police to 150, will pain and vomiting opium and bella donna	: - · · · · · · · · · · ·	Post-mertern: Blood dark and fluid; dark turisd serum in pelvis; acute peritonitts B- mited to godine and around directed by adhesions in acute siructed by adhesions in acute augles of code of intestine near pecials.
Between umbiliens and symphysis pubis; 6 inches	Parietal and onem-	Three distinct cords included is same clamp	Little blood lost several omenta vessels tied	Left	18 pints fluid; 5 lb. 9 os solid; much fat, hair bouy plutes, and teeth	No had symptoms occasional opiates	Recovered	Loft Hospital 26th day; had a living child in March, 1870
Between umblicue and pubes; 4 inches	None	Broad, short pe diele ; circula clamp	Hardly any	Left	16 pints fluid; 14 lb. solid thin-walled, vascular proliferous syst	Some sickness and tympenites, relieves by morphia and atropine	Reco-	Left Hospital 23rd day
Between umbiliens and pubes; a inches	None; free fluid	Circular clam; (which cut), and lighture fastence to it	3.	Left	16 pints fluid; 4 lb. 6 os solid; multilecular, col- loid, cystoid	Went on well, but free serous dis- charge continued from lower part of clostrix	163	Left Hospital 22nd day; a year after operation a fibro-plastic growth removed from cicatrix. In good health March, 1871, but discharge continues
Usual situation ; 4 inches	Parietal and omen- tal	Small clamp, ex- cinding Fallopian tube	Scarcely any	Right; small eye in left	20 pints field; 17 cz. solid large, thiu, vascular cyst with small intra-mura cysts	Some bleeding from vessel in abdominal wall 3-hours after operation	E .	Left Hospital 23rd day
Court situation; Ginches	Parietal and intes- tinal	Thick and broad; large clump	Some oozing from separated adhe- zions	Left	20 pints fluid; 3 lb. 15 cz solid; proliferous cystoid; walls flued by lymph and pass	and 156	Died 26 hours after onerstien	Post-moriem: A little dark serum at bottom of Douglas's space; heart distended by dark clot.
Journal situation;	Very broad attach- ment in left line form and between uterm and rectum		Very free	Left	68) pints fluid; if on solid; non-stricted muscular fibres in cyst-wall	Rise to 100°4 and 160°5 drainage tube, be- side lightness, followed on third day by freeal discharge; free purulent dis- charge, not fascal, from 16th to 30th day	Recornsed	Left Hospital 50th day quite well.
Jenal situation ; s inches	None, July dun Auto — véw	Short: large clamp; vessel be- hind clamp tied	3 to 4 az	Right	13 pints fluid; 10 oz. solid; single cyst; rest of overy healthy	No bad symptoms	Reco-	Left Hospital 28rd day,
snal situation p	"verne legionise"	Clamp and gal- vanic cautery; 2 ligatures on ver- scle not closed by cautery		Both; fused into one iu- mour	12 pints fluid ; 14 oz. solid ; one large eye, and several groups of smaller	Much vointing on 5th, 6th, and from 8th to 18th day; very free suppura- tion, and slow con- triaution of incision	Recovered	Left Hospital well, 30 days after operation,

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Medical Times and Gazette.

SATURDAY, MARCH 25, 1871.

THE SMALL-POX EPIDEMIC.

TERM appears to be no doubt now that the spidemic is in process of declaring in the metropolis, alonly, but steadily, the deaths registered during the four weeks ending Saturday, March 18, being 227, 213, 194, and 184. All the districts, except the East, have partaken in last measured to 10. In Liverpool we learn that the mortality has again increased to 10.1 In Liverpool we learn that the mortality has again increased to 10.1 In Lawrence week in London, and to 10 per 1000 last week in London last wee

THE SMALL-POX HOSPITALS AT HOMERTON.

There are two permanent establishments located by the Asylum Board at Homerton: the one was from the first destined as a Hospital for small-pox; the other was intended as a fever Hospital, but this also, during the pressure of the present epidemic, is being occupied by small-pox patients. We took an opportunity of visiting both of them one day last week. The district is one which few beside East-enders and philanthropists know much about, and the site selected for the Hospital is not altogether the best conceivable for such a purpose, although it is probable that it was the best that the Asylum Board could command in the north-east of London. The objections to it are—that the Hospitals stand nearly on a level with the Hackney-marshes, and are surrounded by a dense population of poor persons. In respect of poverty, we learn that the parish of Homerton stands pretty much in the same position as the better-known parish of Bethnal-green. The space of land at the command of the Asylum Board was eight and a half acres, and on this the two Hospitals have been erected. Within about forty feet from one of the fever pavilions stands the north wing of the East London Union Workhouse, a portion of which is used as a lying-in ward. Within fifty or sixty feet of the wards of the Fever and Small-pox Hospitals are densely-populated small houses, and a mission-house and chapel. The only direction in which the walled-in site is at all open is the north; but even here building is in progress, so that in a very short time the selected area will be closely surrounded by dwellings that may be expected to interfere with the free circulation of air about the Hospital buildings. We cannot

h-lp saying that, in our opinion, the Board, having settled upon this site, would have done better had they purchased the land up to the roadways on the east and north, demolishing the dwellings now upon it, and adding the space thus obtained to the airing-grounds of the institutions. When it was first known that a Small-pox and Fever Hospital were to be exceted here, there arose a considerable amount of alarm, and we understand that the guardians of the East London Union at one time contemplated applying for an injunction to restrain the Asylum Board from proceeding with their project. However, they thought better of it; and, now that the Hospitals are opened, the usighbourhood has quieted down to bear that which is unavoidable.

About two-thirds of the eight and a half acres area on the north are devoted to the Fever Hospital premises, which are separated by a light iron railing from those of the Small-pox Hospital. The two Hospitals are under separate administration—the former being superintended by Dr. Collie, formerly Assistant Medical Officer of the London Fever Hospital; and the latter by Dr. Wm. Gayton, formerly of Bethnal-green. Some of thearrangements in the two institutions are very similar; but as the buildings are not erected precisely upon the same plan, we shall have to give a separate account of each. Both are constructed of brick, and make no pretension to architectural display. We have mentioned the fact that the space of land allotted to the Fever Hospital is larger than that allotted to the Small-pox Hospital. Perhaps the best mode of making the arrangement of the blocks of which it consists intelligible, in the absence of drawings, will be to say, in the first place, that there is a long corridor running from east to west, from which the several Hospital pavilions are entered; and that from the centre of this corridor there passes southward a shorter corridor or passage, about fifty feet long, to an oblong block, in which are the principal entrance-hall, the dwellings of the principal. officers of the establishment, and the committee-room. The frontof this administrative or residential block looks to the south. The corridors then are in the form of the letter T, the transverse portion being greatly prolonged. On each side of the shorter corridor, and entered from it, are the other administrative buildings -namely, the dining-hall of the nurses and servants, and the dormitories of the former-constituting one block at the rear of the residential building; and behind this, again, a smaller block, devoted, on the one side, to the kitchen, and on the other, to the steward's offices and store-rooms. With respect to this part of the buildings we need say little, except that it would, in our opinion, have been better if separate dining-halls could have been provided for the nurses and servants. The nurses' dormitories are admirably arranged. Each is large and lofty, with a thorough ventilation by opposite windows; while, by means of partitions rising about eight feet from the floor, it is arranged that each nurse shall have a separate and private bed-room, which is entered by a door from a central passage. We cannot say so much in favour of the servants' dormitories in the residential block, where each room contains two or three beds with, as we consider, in some instances, an insufficient amount of space. But the most important part of the building is, of course, that devoted to the sick. This consists of five pavilions, four of them passing off northward from the principal corridor and one southward from the eastern end of the corridor. The corridor then terminates at the eastern end by two pavilions, one running north, the other south; at the western end by only one pavilion running north. Between the pair of pavilions passing northward from the western half of the corridor and the pair passing northward from the eastern half there is a very wide space, in the centre of which, and wholly detached from the other buildings, stand the laundry and disinfecting apparatus. The intervening spaces are laid out in the centre as a drying-ground, and at the sides and between the pavilions as siring-grounds for the convalescents. The principal corridor is about 12 feet high and about 9 feet wide, well lighted by an

abundance of large windows along nearly its whole length. The windows open by swing sashes at the top. It would have been better had they been constructed to open more extensively; little more being necessary here than a covered way which could be protected from the weather. The pavilions are all constructed upon the same plan; each consists of two long wards, one above the other. The lower or ground-floor ward is entered by a short passage or corridor from the long corridor, from which the former is shut off by doors. On the one side of this ward corridor is a nurse's room looking by a window into the ward, and behind it the ward scullery or kitchen. On the other side is a small day-room, occasionally used as a separation ward for cases of ervsipelas or other disease than small-pox. The upper ward, in all respects similar to the lower one, is approached by a staircase from the corridor. Each ward is about 100 feet long by 26 feet wide, and 14 feet high. The walls are covered with Parian cement, forming a clean, smooth, non-absorbent surface. The wards are lit by seven large opposite windows on each side, and three at the north end. are fitted with inside venetian blinds. Above each window is a kind of hopper projecting into the ward, the front of which is constructed of laths like those of a venetian blind, directed upwards and inwards, the top being open and capable of being closed by a wooden flap. In this way a current of air is admitted and directed newards, and ventilation across the ward from side to side provided for at all times. In addition, the upper window-sashes let down. At the time of our visit, although it was a cold day, all the windows at the sides were open to their full extent. In fact, to our feelings, the wards were very draughty; but Dr. Collie assured us that he has known no harm arise from this, but believes his cases have benefited by the freshness of air thus ensured. There are other supplemental arrangements for ventilation, such as openings near the floor between some of the windows, and smaller openings near the ceiling, provided with Arnott's flap ventilators, the value of which, when thus placed, we fail to be able to comprehend. The warming is effected much in the same way as at Hampstead, by two pairs of open fire-places at equal distances along the middle of the ward. Although in some of the wards there were severe cases, giving off a most offensive efficies, we could perceive no trace of the latter except within the screen placed around the patient's bed. The day-rooms, or separation wards, are less efficiently ventilated, in consequence of the windows all being placed at one end. The bedsteads and bedding are of the same pattern as at Hampstead, feathers being used for the beds. Each bed is provided with a waterproof covering, two sheets, a blanket, and coverlet. The nightchairs are of the usual kind, and it is the practice to keep at all times a pint of water with a little carbolic acid in each. The closet and lavatory for each ward are built out from the side of each pavilion, are entered from the middle of the ward, and separately ventilated. A receiving-ward and head-nurse's room are provided for each half of the establishment, and are situated side by side at the entrance of the long corridor, at its middle. At the top of each staircase is a shoot for foul linen, and another for dust and refuse. One of the most objectionable arrangements is that by which the wards are supplied with coals. Each ward has its own special coalcupboard, capable of holding in the winter about one day's supply, situated in the short corridor leading to the wards above, and under the staircases at the lower part of the building. The only way of getting coals to these places is by carrying them in iron boxes the length of the corridors and up the staircases-a plan involving much labour, and rendering it impossible to keep these parts of the building clean. Neither can we think that the arrangements are such as to permit of a good supervision of the nursing. Each ward has detailed for its service two day nurses and one night nurse, all of whom the head nurse is

supposed to be capable of superintending. What with the length of the corridors, the staircases, and the distance of the partitions from the head-nurse's room, we can scarcely see how an efficient superintendence can be carried out. It would have been much better to have had one good and intelligent woman attached to each partition, who should be responsible for the nursing there, and from whom the other nurses should receive their orders. The practice in this Hospital is for the males to occupy the lower wards and the females the upper ones. The two partitions at the eastern end of the corridor are devoted to convalescents. Each ward is coupled by twenty-five to twenty-cight beds, instead of twenty as in the acute wards. This extra number is warranted by the fact that the convalescents gend the whole day either in their day-room or in the recreation-grounds, the wards only being used as dormitories.

There is only one children's ward, containing thirty beds, in the upper floor of one of the wester a partitions. Two of thee beds are for mothers of suckling infants. Children over 10 years of age are distributed, according to set, among the sdull patients. The children's cots are similar to those at Hampstead. We may add that, on the male side of the building, there are two male attendants employed, in saddition to the staff of female nurses, and that throughout the establishment no use is made of the labour of the convalescents.

In the treatment of the cases Dr. Collie has the aid of an assistant Medical officer.

The whole of this Fever Hospital is at present devoted to small-pox cases. The complement at present is 230, but it is, we hear, intended to receive 260, including the convalescents. Dr. Collie has no fixed minimum period for keeping patients in the Hospital. On admission into the receiving-ward, if there is no objection to it, each patient is stripped of his clothing, and has a bath, and the clothing is taken away to the disinfecting chamber. This is a brick chamber, with iron racks, which is heated by a flue below, and in which sulphur can be burned. The clothing is retained here, at a heat of 250°, for several hours, and then removed to a wooden chamber, similar to that in use at Hampstead, where it is freely exposed to the air until restored to the patient on leaving the Hospital. Appropriate clothing is provided for the convalescents: for the men, a flannel shirt, thick, loose, woollen grey coats, fastened by a band round the waist, woollen trousers, and a cap; for the women, a flannel chemise and drawers, and a loose linsey dress. Cotton prints are in store for summer use. There seems to be some deficiency in appropriate clothing for the boys, whose dress, much too large for them, was anything but picturesque; but this is a trifle, resulting from the haste in which the arrangements were necessarily made. Each convalescent has at least two carbolic acid baths before being discharged.

We have described the Fever Hospital, temporarily used for small-pox cases, first, because it is larger, and, on the whole, we think, built npon a better plan than the permanent Smallpox Hospital, and also because it is the building which we first visited. It is tolerably clear that the plan of the permanent Small-pox Hospital has been adapted to the comparative smallness of the area devoted to it. The residential or administrative block, in which is the principal entrance, faces north, and is placed sis-a-ris to the corresponding block of the Fever Hospital. The corridors are arranged on the same plan, too, and there is neither in these nor in the administrative arrangements any difference worth noting. The divergence from the plan of the Fever Hospital is first observable in the position of the pavilions. The transverse corridor is comparatively short, and instead of the pavilions being placed at right angles to it, they stand at an obtuse angle to the corridor at either extremity, two at each end, those at the east end running N.E. and S.E. from it, and the two at the west end running N.W. and S.W. from it. They are smaller also, although otherwise built very much on the same plan, each having a

lower and an upper floor, the wards being seventy feet long by twenty-six wide, and fourteen feet high, giving a cubical capacity of 25,480 feet. In this Hospital, the males are treated on one side of the building, the females on the other, the acute cases being placed in the upper wards, and the convalescents in the lower. The upper wards are approached by a staircase at either end of the transverse corridor, at the top of which is a children's ward for six beds, provision being thus made for only twelve young children altogether. Twelve beds form the complement for each acute ward; twenty are placed in each convalescent ward. There is a head nurse for the male and female wards respectively, whose sitting-room is at the bottom of the staircase, at the end of the corridor, so that here a better supervision is possible than at the Fever Hospital. The Hospital is constructed to accommodate 104 patients, but as many as 140, including convalescents and children, have been there at one time, without any dangerous crowding. Dr. Gayton las no Medical assistance,

The following "notes," from which we have merely omitted so much as has been referred to above, have been courtequaly furnished to us by Dr. Gayton and Dr. Collie respectively. Dr. Gayton writes :-

"The Homerton Hospital for Small-pox was opened for the reception of patients on February 1. The number of patients that have been admitted since the opening in 322—..., 2,172 males, 172 females, and 26 children; of these 212 had been vaccinated, or at least thought so, and in 110 this precaution had not been taken; of these, 35 have died, or 29 per cent, The districts chieft, and from 2, 50 per cent. The districts chiefly suffering from the epidemic appear to be Bethnal-green, Shoreditch, Hackney, and Whitechapel, the numbers admitted up to March 18 being as follows: Bethnal-green, 87; Hackney, 76; Shoreditch, 61; Whitechapel, 39. The number discharged has been 137. Much has been said with regard to the inconvenience attending the admission of patients into this and other Hospitals during the present epidemic. I am inclined to the suggestion made by the Lencer, this week, that 'the Hospitals should be placed in telegraphic communication with the central office in Norfolk-street; that the guardians should be directed to apply there, and there only, and that the chief clerk should have authority to apportion the accommodation as soon as vacancies occur.

"All servants and others when engaged are required to be vaccinated, and not employed until the result has been seen. With the exception of an old man who was employed in the disinfecting-room during the first week of the opening of the in titution, no one has been attacked by the disease.

"No visiting is allowed here unless the patient is considered to be in a highly dangerous condition, and then always subject to the sanction of the Medical superintendent.

"There are three scales of diet—viz., full, ordinary, and low.
Full consists of, per diem—Uncooked meat, { lb.; potatoes { lb.; bread, 1 lb.; butter 1 oz.; coffee, 1 pint; tea, 1 pint. Ord bread | lb.; butter 10z.; conec, pins; tea, pint. Oraniary consists of, per diem—Uncooked meat, lb.; potatoes, lb.; bread | lb.; butter, 1 oz.; tea, 1 pint; coffee, 1 pint. Low consists of, per diem—Milk, 1 pint: beef-tea, ll pints; bread, 1b.; butter, l oz.; tea, \(\frac{1}{2} \) oz.; sugar, \(\frac{1}{2} \) oz.; arrowroot, \(\frac{1}{2} \) oz.
"The times of meals are as follows:—Breakfast, 7 a.m.; dinner, 12 noon; tea, 5.30 p.m. At 7.30 p.m. they retire

"No definite rule has been laid down as to the time patients Should be retained in Hopsial; as cases differ in severity, so, I imagine, must the time bey should be isolated. Manditted who could with the greatest safety have been admitted who could with the greatest safety have been discharged the next day, but in no case has this been done. Speaking generally, I should say the average duration

in the Hospital has been fourteen days.

to hed.

"Burials take place three days in the week-viz., Tuesdays, Thursdays, and Saturdays. If the friends are anxious to inter their relatives, they are permitted to do so; but the funoral must take place from the Hospital; and under no circumstance whatever are they allowed to remove the bodies to their own homes

" Several cases when brought here have forbidden any hope of recovery, but in the majority of cases the removal has taken place soon after the emption has appeared. The hours of admission, I think, are too long—viz., from any time in the morning (I do not know that any hour has been named) until 8 p.m.; the consequence is that many cases have arrived as

late as 10 p.m. The strict carrying out of the defined rules would incur a greater responsibility than I imagine most would care for.

would care for.

"The patients when convalescent amuse themselves in various ways—by exercising in the recreation grounds; by reading; by playing cards, draughts, and dominoes, and so forth; but the women seem the worst off. For hours together. forth; but the women seem the worst off. For hours together they sit absolutely doing nothing, and I am quite sure that if any philanthropic ladies were to take pity on them by providing plain needlework, it would be done well and considered a boon. The chaplain attends on Wednesday ovenings and Sunday afternoons; he delivers a short address to both males and females, and engages in prayer with those who desire it. also attends upon urgent eases when requested by the Medical superintendent or matron. The general behaviour of the patients is good, but the men give far more trouble in proportion to the women.

The treatment adopted has been of the simplest kindsalines in the early stages, and tenies in the latter. Chlorate of potash was tried with several, but with no marked results. That which assists most towards recovery is, I believe, plenty of fresh air and perfect cleanliness. Stimulants, to my mind, of fresh ar and perfect and many cases, I feel convinced, would have succumbed to the disease if they had not been exhibited in large quantities and with great frequency. is nearly the only form of alcohol which is used here. topical applications have been various, olive oil being the chief-glycerine, either alone or combined with oxide of zinc and starch powder, simple ointments, dusting with flour or starch powder, and covering the face with cotton wool seaked

in oil or glycerine.

"The type of the disease appears to be much modified. Tho bad cases are now the exception, whereas a month ago they out cases are now the exception, whereas a month ago hery were the rule. The deaths during the past fortnight have been less than in any previous one; everything, in fact, points to a decrease of the epidemic. The great necessity is, and has been throughout, an establishing of convalescent homes, thereby keeping the Hospitals for the treatment of scutte cases only. Every week it would then have been practicable for me to have sent away three times the number of those I have, so making way for others who were really requiring Hos-pital accommodation. I believe, also, as I suggested in one of my reports, that the crection of open-air tents might have been employed with great advantage; the Hospitals being kept for the convalescents alone. I believe those who have only partially recovered from small-pox are in much greater danger from the effects of changes of atmosphere than those who are in the acute stage. Since the management of this institution has been entrusted to me, I have made it a rule to have the upper sashes of all the windows thrown down night and day. Still I do not remember any single case of bronchitis or other pulmonary affection arising in consequence. On the erysipelas, the effect of too early exposing themselves to the cold air. Hence I see no reason why care other hand, one or two convalescents have suffered from slight Hence I see no reason why cases of variola should necessarily be treated in brick or other houses.

Dr. Collie writes thus :-

"Since the opening of this Hospital for small-pox on February 15 last, we have admitted 320 cases. Of these, 32 have died-a mortality of 10 per cent., unvaccinated cases include the would be interesting if we could compare the mortality during the same period in the other Hospitals, but I cannot find the means of doing so from the published reports, as, of course, the mentality would have to be calculated on the cases admitted between February 15 and March 4.

"Of the 32 deaths, 29 were not vaccinated-i.e., there was no evidence of the fact, and we consider all persons unvaccinated who have not at least one good mark. Of course, we do not think that good vaccination, but still we notice the fact and include such cases in the list of vaccinated deaths. On that principle we have had three vaccinated deaths. These deserve some notice. The first, a man aged 24, had been ill for som months of what his friends called a chest complaint. He really

died of bronchitis, pneumonia, and pleurisy.

Post-mortem examination showed engorgement of both lungs, especially at their bases, and numerous little abscesses about the size of a pea scattered throughout them. The mucous membrane of the bronchial tubes was softened and covered with mucoof the forther must be was solution and the control of the forthy fluid. On the left apex was a citatiz running transversely across the base of the spec, by incans of while the point of the apex was dragged downwards and forwards towards the upper edge of the inferior lobe. There was a large quantity of fluid in both pleurse. Death in this case, then, ought to be attributed rather to previously existing disease than to small-pox. Had the man been otherwise healthy I think he would have got well. He had two good marks of vaccination.

"The second case was that of aboy, aged 19, the period about which the protective power of primary vaccination disappears. He had two indifferent marks. It is about this age—say 15 to 25-that the most serious and severe cases of small-pox occur amongst the vaccinated, and even well-vaccinated. I have seen severe attacks (two) in well-vaccinated persons between these ds, but no deaths.

"My third case is that of a woman, aged 22, five months regnant, who died about thirty-six hours after abortion. She

had three indifferent marks.

"Now, I do not think that these last two cases ought to be considered even fairly vaccinated. What matters it how many marks there may be upon an arm if they are not true and characteristic evidences of vaccinia having affected the system? Quality, surely, comes first, and then quantity, if you like, to any extent.
The vaccination of London is perfectly shameful. Out of 310 cases
of small-pox admitted here, how many do you think have been of small-pox admitted here, how many do you think have been swill vaccinated? I speak from memory, at present not having my papers beside me; but I say without hesitation that not more than ten persons out of the 310 have been well vacci-nated. These ten persons had but a trace of the disease, except two, who had passed the age of puberty. I am fre-expet two, who had passed the new for vaccinated persons who die of small-pox, according to the Registrar-General; but to die of small-pox, according to the Registrar-General; but I suppose we must take this statement cum grane salis, for, according to the same authority, many persons die of 'simple continued fever.' I think it is really time that some reform were made in the registration of deaths, for if men put down simple continued fever as a cause of death, how are we to know about typhus, enteric, etc.? This seems to me to show that the Registrar-General's returns are very unsatisfactory.

" I have had one case of 'black small-pox' in a male child aged 7. He was unvaccinated, and his father said that he

had had small-pox when 2 years of age.

"I cannot help attaching some value to our thorough ventilation as having been one, at least, of the causes of our low mortality. A notion has got into some people's heads that acute small-pox cases do not require so much cubic space as other contagious diseases; I think the opposite of this more like the truth, for, in addition to the contagious nature of the disease, you have all the evils of a Hospital full of acute Surgical cases—namely, large suppurating surfaces. I am well convinced that air in unlimited quantities is an indispensable condition in the proper treatment of small-pox. We give 2000 cubic feet to the acute cases here; I would give 4000, and believe it would materially affect the mortality. In epidemic times we are apt to forget the advice of Dr. Parkes, who says:- 'It should never be forgotten by Medical Officers that the rudest shed, the slightest covering which will protect from the weather, is better than the easy plan so often suggested and acted on of putting the beds a little closer together.'

"We have had two cases of crysipelas with small-pox, which were immediately isolated, and we have had two cases of scarlet fever, which were also isolated, and neither disease has spread."

We strongly recommend the remarks of Dr. Collie and Dr. Gayton on the subject of free supply of fresh air, to the consideration of authorities and others contemplating the erection of small-pox Hospitals. There are some who would have felt shocked to see the cold air from an open window blowing down upon the bed of a patient just under it. An extra blanket wrapped round the shoulders, however, sufficed as a protection from injury. And the patients thus exposed, it is to be recollected, were mostly people who, when at home, are in the habit of carefully excluding fresh air from their rooms,

Putting the admissions into the two Hospitals together, the number of patients received up to March 3 from the several

parishes was as follows :--

Shoreditch			137	Hackney .			51
Bethnal-green			105	Greenwich			1
City of Londo	n		29	Lambeth .			7
St. George's-in	n-the-	East	9	Islington .		٠.	1
Mile-end Old	Town		14	Kensington			3
Stepney .			11			-	_
Poplar .			6	Total			430
Whitechapel			54				

NATIONAL DEGENERACY.

Ir the American people are suffering physical degeneration, it is not for the lack of prophets who tell them both of the fact and of its causes. One of the most handy summaries of the matter is contained in a paper published by Dr. Nathan Allen in Dr. W. A. Hammond's Psychological Journal for October, 1870, and we venture to call attention to it, in the belief that? it concerns ourselves as much as it does the Americans.

We need not give a formal definition of natural degeneracy. but may say that such a condition is on its road when incressing numbers of a community are unable, if men, to work, to fight, to withstand the weather; and If women, to breed and rear children. It may be noticed that it is in time of war when such degeneracy becomes most palpable; and that, at the opening of the late American civil war, "it was," as Dr. Allen says, "matter of surprise to Surgeons what a large number of men in the community were found, whom, by reason of infirmities or diseases, they were obliged to exempt from the draft. If exact information could be obtained as to just what proportion of men, at the present day, are physically disqualified for military service, the result," he says, " would surprise the public;" and he sums up the essence of degeneracy in the terms "loss of muscle" and "increase of nervous tem-" perament." Amongst the causes-

"In the first place," he says, "the increasing migration of our people from the country to the city is decidedly unfavourable to physical stamina and life. . . . To such an extent has this change already been carried in population, that almost one-half of it in the older States is now found in cities and large towns, and there is reason to believe that the proportion is steadily on the increase. Now, no one truth in tistics is better established than the fact that city life tends to reduce the physical energies of the body and shorten human life. The close confinement indoors, the breathing of vitisted air, the frequent use of unwholesome water, the increased habits of intemperance and licentiousness found in cities, have nants of intemperance and necentousness round in ciries, nave a most pernicious effect upon the human constitution, by multiplying its infirmities and its maladies. In the second place, the very general giving up of farmwork and the more laborious employments. It is a well known fact that very few of our young men are now willing to follow agricultural pursuits; and every year witnesses a less and less number disposed to learn or follow the more laborious trades -such as th e mason, the carpenter, the millwright, the wheelwright, etc."

But, continues Dr. Allen, It is woman who (as In all other cases) suffers most. In her case changes bave been "more marked, more radical, and more disastrous. Within forty or fifty years a great change has taken place in the early training of girls, as well as in the domestic habits of women. Once a large majority of the girls of our American population were taught early to understand and perform housework, which, combined with considerable outdoor exercise, served to develope strong and healthy physical frames. From the age of 6 to 16, of the girls of that period, probably not more than half their time, on an average, was devoted to school education or intellectual pursuits." But now girls are kept hard at schoolwork from 6 to 16, with little exercise; hence a precocious cleverness, and weak muscles. They are unfit for housework, and despise it. "There has grown up in a portion of the community a strange and most perniclous sentiment or feeling that there is some degradation attached to domestic labour, so that nearly all of it is now performed by foreign help"-which, we suppose, is Irish. In consequence of neglect of air and exercise, physical debility and ansemla are universal. Iron is prescribed to an extent unknown in bygone generations. " In almost all the ordinary complaints of women, iron, in some form, becomes an indispensable medicine; in fact, in very many cases they depend upon it from day to day, from week to week, the year in and the year out, almost as much as upon their daily food. Its use has also become extensively necessary in cases of children suffering from debility and ansemia, which would have not been required if they had inherited organisa-

tions full of life and vitality, or had been rightly trained in physical exercises, and had their systems properly nourished and strengthened." Fashionable dress obstructs the play of the lungs, and displaces the pelvic viscera, "Connected with this weak and relaxed state of the muscular tissue, and with the above-mentioned effects of fashion in dress, has sprung up a class of very grave complaints, which once were comparatively unknown in our country, and are somewhat peculiar to American women. We refer particularly to weaknesses, displacements, and diseases of organs located in the pelvis. Within twenty or thirty years, this class, comparatively new, has increased wonderfully. No one but a Medical man who has devoted special attention to this subject can realise fully what are the nature and extent of this change, and what are its direful effects. These complaints have frequently been produced-have certainly been aggravated, and sometimes made incalculably worse—by the various means and expedients which the parties have resorted to, in order to interfere with or thwart the great laws of population. . . . The marriage institution itself is suffering terribly from this source." The proper nurture of children decays equally. American women cannot nurse, and have not the necessary organs. If it be said that they can, but will not, then, rejoins Dr. Allen, "this very indifference or aversion shows something wrong in the organisation, as well as in the disposition; if the physical system were all right, the mind and natural instincts would generally be right also." The extensive advertisements and sales of feeding-bottles prove the same fact.

We wonder that he did not point to the number and celebrity of the American dentists, and to the decay of teeth, which is one strong sign of national degeneracy. Darwin believes that the wisdom teeth are becoming radiumentary in civilised man, which is palpaly true. The same may be almost said of the bicupids; but we think that an unsound civilisation which stunts the physical part of our nature.

From physical to moral degeneracy the discussis is but too facilities. "Bosidies the inherent defects in such an organisation, in not making the necessary provisions for gestation and lactation, the natural institutes of woman in a pure love of offspring and domestic life become changed: the care and trouble of children are a burden; society, books, fashion, and excitement generally, are far more attractive." The results will be—first, sterility, for no intensely nervous temperaments are favourable to increase; and, secondly, an increasing ratio of degenerate population. It is woman that "moulds the physical systems of those who are to come after us," and "imperfect developments are transmitted in an intensified form," Meanwhile, the mortality of women, instead of being lower in America than that of men, as is the case in the Old World, is higher.

Another sign of physical degeneracy is found by Dr. Allen in the "general complaint in the community about having too many hours of labour. Twelve hours in a day are considered too many; ten also are not acceptable; and if a law passes Congress fixing a day's work at eight hours, we apprehend after a while many persons will want a still further reduction. Without expressing any opinion as to this reform, is there not some philosophy or hidden meaning in its teaching? Does it not indicate some radical change in the physiological conditions of a people, indicative of inability, as well as indisposition, to labour? Would our ancestors or the generation immediately preceding us ever have made such complaints? Would any people full of physical vigour and strength, and abounding in all the elements of healthy growth and activity, thus complain?" We commend these observations to the trades-unionists at home. As a last note of degeneracy, Dr. Allen says that the birth-rate of the American people has been constantly diminishing; so that the rapid increase of the American population has been due to immigration, and not to fertility.

Amongst other elements, whether causes, effects, or evidences of degeneracy, Dr. Allen notices the inordinate passion for

riches; overwork of body and mind in the pursuit; undne hurry and excitement in all the affairs of life; intemperance in esting and drinking; the enormous use of quack medicines; the general indifference to human life; the increased use of spirits, tobacco, and opium; the increase of lunaey; the decrease of children.

We have thus far followed Dr. Allen, not with any view of giving a disparaging account of American life, but of pointing out that if like causes produce like effects, we had need take heed to ourselves. There is not one of the evils denounced by Dr. Allen which we do not find here. Large cities are the graves of our population. Women cannot be developed, nor children be reared in them. No one who looks at the stunted race of London "roughs" and "costermongers" can feel that we have anything to boast of. Even our peasantry are not models. The Rev. Dr. Hannah, in a speech at the Brighton School Board, said he was struck, on coming into the South of England, with the want of agility in the children compared with those of Scotland-they had not that firm and erect tread which it was so important that they should have. It is of no use to send men from the East-end of London to the North to work, for they cannot do the work. The very progress of civilisation, too, as Darwin observes in his latest work, is unduly favourable to degenerate members of the community. With savages, he says, the weak in body or mind are soon weeded out; the vigorous only survive. Civilised men do their utmost to check the process of elimination; they build asylums for the imbecile, maimed, and sick; they establish poor-laws; they cultivate Medicine; they vaccinate, and thus save the weaker persons from succumbing to small-pox; and they allow their worst members to breed. It is surprising, he adds, how soon a race of animals or plants may be deteriorated; "but, excepting in the case of man himself, hardly anyone is so ignorant as to allow his worst animals to breed."

THE WEEK.

TOPICS OF THE DAY.

THE Council of the Royal College of Surgeons assembled in Committee on Tuesday last, to consider the draft scheme for an Examining Board in England, prepared by the Committee nominated by the two Royal Colleges and the Society of Apothecaries, seem to have been actuated in their deliberations by the simple desire of trying "how not to do it." We are compelled to admit-and we do it with regret-that the result of their negotiations is a set of resolutions curiously unpractical and feeble. If it were really the desire of the Council that no Conjoint Board should be formed, and that no amalgamation of the great mass of the Profession by the naion of examinations should take place, they have taken a course which, unless it be prevented by an exercise of some forbearance, good temper, and good sense in the Committee of the three Corporations, would very likely lead to such a result. In proof of the truth of our remarks, we will review seriatim the resolutions at which the Council arrived. In the first place, it was moved by Mr. Charles Hawkins, seconded by Mr. Lee, and resolved-"That, adverting to the resolution of the Conneil of October 7, 1869, confirmed on the 14th of that month-' That it is the opinion of this Council that there should be instituted a single Examining Board for each division of the United Kingdom, before which every person who desires a licence to practise should appear, and by which he should be examined, and that a diploma from either of such Examining Boards should entitle the holder to practise Medicine, Surgery, and midwifery in any part of her Majesty's Dominion'-the present Committee of the Council affirms anew the principle resolved by the Council, and proposes that the Conjoint Board Committee should, as far as practicable, adhere to that principle." If this resolution have any meaning at all, it simply is this-that the Conjoint Board Committee

must obtain from the Legislature an Act of Parliament to institute a single Examining Board for England, Scotland, and Ireland, for in no other way can it be in any degree practicable for the Conjoint Board Committee to adhere to that principle. The phrase, "as far as practicable," indeed deprives the resolution of any real meaning, but the principle of the resolution can only be established, as the better informed of the Council of the College well know, by an Act of Parliament, which certainly cannot be obtained in the present session, and which, if obtained, would either be at the cost of demoralising the General Medical Council by direct representation, or of putting the whole Profession under a department of Government presided over by an irresponsible minister of the Crown and his Medical nominee. So much for the first resolution of the Council.

The second resolution came in the form of an amendment, moved by Dr. Humphry and seconded by Mr. Hilton, to a resolution moved by Mr. Curling and seconded by Mr. Busk. The original motion having been negatived, we will not stop to discuss it, only remarking that it would have required an Act of Parliament to carry it into effect. The following was the amendment, which was afterwards put and carried as a substantive motion :- "That, in the opinion of this Committee, the following resolution should be adopted, viz.-That it is desirable that an Examining Board should be formed by such licensing bodies as may consent to take part in it, it being understood that each co-operating body shall refrain from the exercise of its previous separate privilege of giving admission to the Medical Register." This resolution, which may be intended to open the door for the co-operation of the Universities, on the understanding of the submission of University graduates to the examinations of the Conjoint Board is no doubt well intended, but it is open to this objection-viz., that it prescribes terms which may be objected to by the Royal College of Physicians. We have yet to learn whether the Royal College of Physicians will consent that gentlemen should only be admitted to the Membership, and ultimately to the Fellowship, of the College on the condition that they shall have passed the Conjoint Board. We cannot say what the feeling of the Fellows of the College may be on the subject, but, at all events, the resolution may lead to much discussion. The next resolution passed by the Committee was an assent to that part of the draft scheme which settles that candidates who have passed the Conjoint Board shall be entitled to the licence of the College of Physicians, the Membership of the College of Surgeons, and the certificate of the Society of Apothecaries, "provided that each of the licensing bodies mentioned takes part in the constitution of the Board of Examiners." This is a harmless resolution; but we thought the provise at the end was understood. The next resolution was moved by Dr. Humphry and seconded by Mr. Simon, and we are afraid it may be regarded as a deliberate attempt to throw an apple of discord into the Committee by reviving the misunderstandings of last year. The resolution is to this effect-" That it is desirable, in the opinion of this Committee, that each of the Examiners in Medicine. Surgery, and Midwifery shall be a Graduate in Medicine or Surgery of a British University, holding the highest degree in Medicine and Surgery of his University, or a Fellow or Member of one of the Royal Colleges of Physicians, or a Fellow of the Royal College of Surgeons of the United Kingdom; or that he shall be, or shall have been, a recognised teacher in the subject in which he is appointed to examine." We can also say that it is desirable, and we have no doubt that, practically, the resolution would never be departed from; but we doubt the wisdom of advising the Committee to make it part of their scheme. We have yet to learn that there is any practical good to be obtained from limiting the choice exercised by the Medical licensing bodies in the appointment of their Examiners. Why, for instance, should the Royal College of Physicians not be free to elect one of its

Licentiates, or the Royal College of Surgeons one of its Members, or the Society of Apothecaries one of its Members, if the person possess the necessary Professional knowledge? For their own credit, the Medical authorities are likely to appoint the very best men they can find for the post. But to attempt to put a limit on their choice, which is not sanctioned by the legal authority under which they act, is not very likely to be received with good grace. Fortunately, however, the Committee have made this resolution of the same colourless complexion as the others. "It is desirable" is not an expression that means very much, and we have too much faith in the good sense of the Conjoint Board Committee to suppose that this resolution will be allowed-as it would almost appear it was intended-to throw the whole matter again into the confusion from which it can only be rescued by State interference. The latter part of the scheme, which refers to the appointment of Examiners between the three licensing Corporations, and the division of the fees, is referred to the Conjoint Board for reconsideration, although on what point does not appear. We may, however, assure the Council of the Royal College of Surgeons that it is not likely the other bodies will assent to a larger share of the proceeds of examinations going to the College, than a share proportionate to that obtained by the grant of its diploma of Membership during the last five years. On the whole, the resolutions of the Council are so very vague, that we can hardly suppose they will be allowed by tho Conjoint Board Committee to destroy the work which they have done. Individually, we are certain that a majority of the Council would disayow such an intention : but their resolutions, if allowed their full effect, would either prevent any reform of Medical examinations at all, or throw us on the necessity of relinquishing our liberty as a great and free Profession, and make us dependent on "the wisdom of Parliament" or the caprice of a Minister for a Medical Examination Act.

Dr. George H. Kidd, President of the Obstetrical Society of Dublin, has been nominated one of the honorary members of the London Obstetrical Society, in succession, we believe, to the late Sir James Y. Simpson, Bart.

A well-known Indian Medical officer, Mr. Atchison, who signs himself "Surgeon-Major," has written a series of letters to the Times on the subject of small-pox encampment. His plan is, no doubt, a good one, provided the exigencies of our climate could be taken into consideration, and the prejudices of our population against anything novel could be overcome. Mr. Atchison writes-

"Instead of the costly, injurious, and tardy system of congregating the sick in Hospitals, asylums, or improvised lazarettos, in a hitherto uninfected neighbourhood, why not apply the simple remedy we at once resort to in India—viz., pitch tents in some high and airy situation, quarantine the encampment, and on the subsidence of the disease disinfect or burn the camp?

At the dreadful epidemic of cholera at Meean Meer in 1861, and again at Umrijee in 1863-at both of which I was deputed and again at Campie in 1000—at court of which; when also small-pox was raging, the moment infection appeared we attacked it at once by segregation and camping-out. Here the three great principles of hygiene were enforced—viz., fresh air, non-contact, and speedy action. What was the consequence? The disease was arrested forthwith, and quickly disappeared."

In a subsequent letter he explains that, by the term "tent," in this climate, he means-

" Every appliance for the encampment of the sick-viz., tents, thatched buts, wooden sheds, and any other movable apparatus suitable for the emergency.

He believes that the total expense of forming such an encampment and of burning it afterwards would not be one-fourth of the expense we are now incurring for temporary Hospitals. He adds-

"And as regards an encampment, be it composed of tents,

hatz, shede, steamer, blockship, they could coaily be furnished to suit the necessities of the case, be they for the necky, the middle-class, or the opulent. They would form a summer Wimbledon or a winter Aldershot (in miniature) soutists our cities and towns, and protect our population. They would be under proper discipline, and in charge of experienced differen, subscribingly, and the oretainty of success." is the "open," is

Mr. W. McCormac, who has just been elected Assistant-Surgeon to St. Thomas s Hospital on resigning the office of Surgeon to the Belfast General Hospital, has had the honorary appointment of Consulting Surgeon to that institution conferred upon him.

THE WOUNDED AT BERLIN.

THE special correspondent of the Daily News describes the arrangements for the reception of the wounded at Berlin as having been most efficient. Fifty huts, on the model adopted by the Federals during the civil war in America, were erected on the drill-ground of the Berlin garrison soon after the war commenced. Each but is 72 feet long, 20 wide, and 16 high, and contains cots for thirty patients. The ventilation is effected by ridge openings along the roof, and by large windows so placed as to admit air freely without causing a direct draught. The roof projects as a verandah over a narrow wooden stage, flush with the flooring, railed round, and wider at the ends where the doors are. The huts are raised on piles several feet above the ground. During summer the sides were of canvas nailed on framing, and in winter of a double layer of planks, with space between them for the circulation of air. In winter also stoves were employed.

The buts form three separate triangles, the Administration hust being at the bases, and the other two sides formed by hust ranged in echelon, so that no hut overlaps another, and free circulation of aris obtained. Water is plentiful everywhere, conveyed all over the ground in pipes. The fall of the ground is not sufficient to give a quick outflow to the swage, which is therefore conveyed to a tank, decolorised, and pumped by steam over the throw of the full into the Sprex.

The Administration is under the personal superintendence of Major von Ressel, who acts also as general military commuslant. Dr. Steinberg oversees everything of a Professional character within the enclosure, and has a large and efficient staff of Medical officers, among whom are eight American Surgeons. Dr. Runkin, of New York, has particularly distinguished himself by his zeal and energy, and but No. 21, for which he is responsible, is said to be the beau-deal of cleanliness and thoughtful arrangement, and to have attracted the particular attention of the Empress and Crown Princess.

There is a special hut set apart for such of the French wounded as prefer the society of their own countrymen; the others are treated in the general huts; and all gratefully appreciate the impartial kindness shown to them.

A good deal of typins has occurred, causing a mortality of about 15 per cent. in the winter, but now of about 7 only. Gangrene showed itself with some frequency; but this is considered to have been attributable to the length of the journey from the front—in no case shorter than six days, during which dressings, etc., were necessarily imperfect. Pysmin was rather frequent during the winter; but this has now altogether disappeared.

The Crown Princess and many ladies of all ranks take the greatestimeters time Hospital; rich bankers and merchants act as directors, and contribute generously in both funds and stores. The correspondent of the Daily News expresses some regret at not having seen an English Surgeon doing duty on the Kreuzberg, and remarks that, if a competent observer had been sent by our Government, he would not only have learned much individually, but would have been able to place at the service of our authorities much information as to matters of arrangement and detail which could not have failed to be of service to us in case of any necessity.

GULSTONIAN LECTURES AT THE BOTAL COLLEGE OF PHYSICIANS, BY DR. GER.—LECTURE II.

HAVING discussed the wave and means by which the healthy body gains and loses heat, the lecturer proceeded to the balance struck between those two processes—namely, the temperature of the body. The fact that the mean temperature of the same person, under the same circumstances, scarcely varies from day to day more than a quarter of a degree, was especially dwelt upon. This question was next discussed: How the body behaves under the two conditions of great addition to, and of great abstraction from, its heat by external means. Exposure to an external temperature equal to, or higher than, the bodyheat, raises the body-heat; and when the latter reaches 107° Fahr., serious symptoms referable to the pervous system ensue. particularly unconsciousness. Sunstruke-or, rather, heatstroke-is essentially due to great elevation of the body-heat. External cold likewise raises the temperature for a short time; this elevation really indicates increased generation of heat (as proved by coincident increased exhalation of carbonic acid), and not merely diminished loss of heat. But the power of the body to counteract abstraction of heat from the surface is very limited. The subject of pyrexia, or elevated temperature of the body, was next taken up. And, first of all, the opinion that pyrexia is a mere equalisation, or levelling, of the external and internal temperatures, was alluded to. But, even in small animals, such as does, the temperature of the liver in health never exceeds 104' Fahr.; therefore, there is such a condition as a temperature unnaturally high, and this is called pyrexia. Pyrexia, obviously, is due to an increased generation of heat, or a diminished loss of heat, or a combination of these factors. First of all, the proofs that there is an increased generation of heat in pyrexia were considered. The proofs were of three kinds. The calorimeter shows that there is an increased loss of heat from the surface in all stages of fever, excepting the cold stage, and even then the loss is not diminished. At the same time, the temperature is pyrectic; therefore the production of heat is increased. Next, the products of combustion are increased. This was shown to be true of the carbonic acid, and the urea, representing the consumed carbonised and nitrogenous structures of the body. Lastly, the consumption of the combustible-that is, of the body-is increased. These facts being so, the other hypothesis, of pyrexia being due to diminished loss of heat, is refuted by way of anticipation; although it cannot be denied that the rapid rise of temperature during the cold stage of fever must be aided by the fact that the loss of heat is not greater than natural during that period.

BABY-FARMING.

THE Bill for the Better Protection of Infant Life proposes that every person having charge of a child shall take out a licence, and any failure to do so is to be treated as a misdemeanour. All legal responsibility, in fact, is shifted from the parents, and fastened upon the nurse. The Bill is very severe on the offence of its own creation-that of nursing "without a licence"; but "guilty neglect," which is the real essence of the evil to be dealt with, "is not punishable except by withdrawal of the licence." The Medical officer of every district is to keep a register of all children out at nurse, and to personally inspect them once a mouth. The notion of making Professional men the supreme arbiters of the nursery arrangements of the poor has some claim to novelty; but it must be confessed that its absurdity is still more palpable-a power few Medical gentlemen would care to have. Children, the most carefully nurtured, as we all know, are liable to sickness; but the mere fact of a nurse-child being unwell places it in the Doctor's power " to suspend or revoke the licence."

LIGATURE OF SUBCLAVIAN ARTERY.

This vessel has been tied three or four times in London lately. We have seen Mr. Maunder ligature it in the third part of its course on two occasions; once, about three years ago, simultaneously with ligature of the common carotid of the same side, for the relief of suspected innominate ancurism. The patient was well nourished. The veins of the neck were enormously gorged with blood, and all the soft parts were loaded and glued together by solid codema. During the operation none of the normal guides to the artery could be either seen or felt, but the vessel was at length found and ligatured at the bottom of a deep cavity, the operation occupying twenty minutes. On Saturday last, March 18, Mr. Maunder's patient had a less forbidding aspect from a Surgical point of view. He was the subject of an axillary aneurism, and happily there was neither venous congestion nor cedema to contend with. The vessel was reached through a single straight incision with ease, the operation lasting ten minutes. A catgut ligature was used, and the wound was dressed antiseptically. Mr. Maunder stated that some three years ago he tied the left common carotid low down, also antiseptically; the wound healed over the ligature in seven days, and the thread is still in the patient. It should be stated that this occurred in private practice. We observed that the operator did not use a director to guide the knife. He deems it of little use, because the position of the external jugular vein prevents any free section of parts, and the point of a director might readily injure veins. He also, having cut through the layer of deep cervical fascia perforated by the above vein, laid aside the knife, and with two pairs of dissecting-forceps tunnelled down to the artery through the areolar tissue and fat of the region. In this way wounding of veins was avoided.

LAW AND LUNACY.

Norming is more conflicting occasionally than the Medical evidence given with respect to lunacy. That Doctors differ we all know, but a case has just been finally settled by the Master of the Rolls, which illustrates the difficulties arising from our present system of having distinct courts of coordinate jurisdiction, and from decisions in one court not being binding on another. The case of Banks c. Goodfellow commenced in November, 1867. It came before the Master of the Rolls, and he directed that it should be tried at common law. It accordingly was tried at Carlisle; then it came before the full Court of Queen's Bouch, on a point of law; then it went back to the Rolls, with reference to costs. So much for the case as before the courts. Now, let us look at the law. The question was as to the mental capacity of a testator who had two constant delusions. Lord Penzance had held that as the mind was one and indivisible, and though other faculties might be sound, if a delusion arose from disorder of any one or more of the faculties, the testator could not be regarded as capable in law of disposing of his property. This dictum was over-ruled by the Queen's Bench, which, in a very able judgment, ruled that a testator may have insane delusions, but the judge might leave it to the jury to determine whether those delusions did or did not affect the disposal of property. Which is right?

MEDICAL INSPECTION OF SCHOOLS.

It is not, of course, contended that all careless boys have decetive vision, or stupid boys defective hearing, or that all idle boys are strumous and suffering from some form of chronic discase; but these various forms of disease are too often present in the existing schools, and may be expected to be still more so in the new schools. Some form of protection should be extended to them, and they should not be left to the tender necries of the schoolmaster. Probably the day may come when schoolmasters will be taught how to detect these varients forms of disease, but till then the scholars should have the benefit of proper Medical inspection.

PAYMENT OF WITNESSES.

March 25, 1871. 345

A case came before the Liverpool County Court, last week, showing the importance of a clear understanding as to who is to pay witnesses when they are subpounsed. A dentist and a Medical Practitioner summoned a solicitor for payment for giving oridines in favour of a client of his, who was himself, it appeared, unable to pay. There had evidently been some misunderstanding as to conversations which took place between the plaintiffs and defendant. However, the verdict in each case was for the defendant, it may be remarked here, that a Medical witness, like any other, can, if he makes application for payments before being sworn, refuse to give evidence unless his just demand be previously satisfied. When any doubt exists, this is the proper plan to pursue.

COMPULSORY REMOVAL OF THE SICE AND DISINFECTION OF PREMISES.

Dr. Ballard, in his Report on the Sanitary Condition of St. Mary, Islington, for February, 1871, says that—

"Of 123 cases of small-pox, only 68 were removed to Hospital, the others being treated at home, where they cannot fail to spread the contagion. It is true that under certain circumstances there are powers of compulsory removal, but for all practical purposes the provisions for this form of public protection have broken down under the stress of the epidemic pressure. After the removal of all who are willing to be removed, for enough of contagion yet remain to keep up the

disease among our enveled population.

"The plan," says Dr. Ballard, we are now adopting to get disinfections performed in infected houses, under the directions of the Sanitary Committee, is swiking telerably. We serve the owners of premises with forty-eight or twenty-four hours' where articles of clothing are wonth preservation and there are facilities for washing and boiling. Where the owners have not commenced at the expiry of the notice, we employ work-men to perform the disinfections, charging the expense on the owners. Our impectors hold store the works as well as their burning, bedding and clothing which could not be conveniently disinfected, or which were so old and fifthy as not to be worth the trouble of preservation. From the commencement of December to the present date I have a record of 318 houses have, with their contents, been more or less satisfactorily disinfected, own 140 yet to get the work of the

THE MELBOURNE HOSPITAL AND ITS MANAGEMENT.

We regret to learn from the Argun of January 18 that erryispleas still continues, notwithstanding the various attempts that have been made to cheek it, to spread with undiminished vigour. Dr. D. J. Thomas, who is unquestionably one of the highest Surgical authorities in Australia, complains with (we think) great justife of the unwarrantable and injurious interference of the lay committee. In a letter addressed to the above-named newspaper he writes as follows:

"I may state that the prevalence of crysipolas in the Surgical wards has caused me much anxiety, and I have no more than one occasion brought it before the Profession; and upwards of six months ago I wrote to the committee of the Hospital, recommending that a detached building should be constructed in the grounds. I reviered no reply, so I determined to request in the grounds. I reviered no reply, so I determined to request round was, that the matter was referred to the honorony staff. They at ones agreed as to the necessity of such a building, but quite disagreed as to the materials of construction." Since then, he adds, behas attended numerous meetings, at which there was not a sufficient number of members to form a quorum; and that at length (on Jan. 2) a special meeting was held at an unusual hour at which he could not attend, when "a reversible wooden building" was recommended by a Mr. Hart, on the plan suggested by Captain Galton in his address on the Construction of Hespitals. Dr. Thomas very naturally wrote to the committee, requesting that his protest might be entered in the minute-lock" avainst the adorton of a wooden

building for the reception of crysipelatons cases, as it was his firm conviction that the mode recommended would be wrong, and he would not like his name to be associated with the receptantum sourist." With the countery that teems to characterise the lay committee of the Melbourne Hospital in their dealings with the honorary Melicial staff, they came to the resolution "that the request of Dr. Thomas could not be complied with."

Dr. Thomas very sensibly observes that such wooden buildings, to be healthy, should not be fixed, but should be frequently moved, as the very ground on which they are evected soon becomes impregnated with deleterious ennantions; is that the Hospital ground that could be appropriated to such buildings is far too limited, and that if they are moved over it, from spot to spot, the disease, instead of being got rid of, will be perpetuated.

The unhealthy state of the Hospital does not, however, seen to be any check to the number of operations, as those performed on January 19 were—complete restoration of the nose, by Dr. Thomas; excision of the elbow-joint, by Mr. Ruddl; and amputation of the leg, by Mr. Fitzgerald. Why is not the cottage system adopted, that the Hospital can be theroughly purified?

SNAKE POISON IN AUSTRALIA.

PROFESSOR HALFORD sends a letter to the Melbourne Argus, in which he strongly urges the immediate and repeated use of the ammonia injection. He first gives the following case from Dr. James Jackson, M.D. Lond., of Mount Gambier :- "I beg to furnish you with the following brief notes of a case of snake-bite which was treated by me at McDonnell Bay on December 23 last. I had just driven into the yard of Locke's Hotel when I was summoned to see the servant, who, while hanging out clothes among the rushes near the sea beach, was bitten by a snake on the back of the hand about ten minutes before. I found the woman in a state of extreme agitation, declaring she had been bitten by a snake about four feet long; and on carefully examining the back of the hand I found a wound such as would be produced by the bite of a snake. I immediately excised the bitten portion, including a piece of skin about the size of a sixpence. I sucked the wound, and then washed it with a strong solution of ammonia. The patient was then placed in a recumbent position, and still remained very much agitated, though to this time there were no special symptoms of snake-poisoning. I determined, therefore, to wait for symptoms. In about twenty minutes nausea was complained of, with a feeling of intense distress in the epigastrium, followed by violent and persistent retching. I now considered my patient under the influence of the poison, and determined to lose no time in injecting the ammonia. I accordingly opened the median cephalic vein, and injected fifteen minims of the ammoniscal solution. The vomiting ceased immediately, and the woman expressed herself as feeling much relieved. In about half an hour the retching returned as violent and persistent as before. Another fifteen minims were injected, which again gave immediate relief. For three-quarters of an hour the patient lay on the sofa quite comfortable, at the end of which time the vomiting again returned. For the third time I injected fifteen minims of ammonia, when the vomiting ceased as suddenly as before. I remained with the patient for half an hour after the third injection, and was then obliged to embark for Adelaide. I left the patient in the hands of Dr. Cotter, of McDonnell Bay, who throughout gave me valuable assistance. This gentleman found it necessary to repeat the ammoniacal injection twice more, after which the woman gradually recovered, and is now in the enjoyment of perfect health.' I may add that with robust people the quantity of ammonia may be increased without danger to thirty minims. Let me (says Professor Halford) contrast this case with one which occurred lately at Hamilton. A man in perfect health was bitten at 3 p.m., and soon after he was very sick, and vomited frequently. The part was cut out, and brandy and ammonia given by the mouth, and the vapour of ammonia by the nostrils. The man was much better by 11 p.m., but by 3 a.m. a great change had occurred; the eyes were getting fixed and dilated, the tongue was swollen, he was faint and weak. Ammonia was injected into the vein of the right elbow. In a few minutes a decided improvement took place. The pulse became less frequent, and increased in volume. He could articulate better. His expression became much more natural, and generally he was much improved. But it was too late; twelve hours after the bite the bad symptoms returned. More ammonia was injected, with less but still good effect; but ultimately he died, twenty-four hours after having been bitten. Who can say what might have happened in this case if ammonia had been injected when the first symptoms of sickness came on, or in Dr. Jackson's case if ammonia had not been injected at once? None of us can say. But let us trust our remedy, and apply it directly symptoms of poisoning appear, how slight soever they may be. Those who have opposed this mode of treatment, explaining its seeming successes by saying that our snakes are not venomous, and that brandy and ammonia by the month are all-sufficient for the cure of any bite, will perhaps be shocked when they hear that, in the neighbourhood of Sandhurst, a healthy young fellow of 26 was bitten at a quarter to 12 a.m., and died at half-past 2 p.m. of the same day (Jan. 10); that no injection of ammonia was used; that he was walked about; and that brandy and ammonia were poured down his throat till he was dead. Granted that snake poison only kills by entering the blood, and that you rely on ammonia as a good remedy, why don't you put the ammonia into the patient's blood, instead of burning his throat with it, or suffocating him with its vapour ? "

FROM ABBOAD.—PROF. BILLROTH'S LETTERS FROM THE SKAT OF WAR-DR. MULLER ON WASTE OF VACCINE LYMPH IN REVACCI-NATION.

In his thirteenth letter, Professor Billroth treats of the casesof septiosemia and pyremia which he met with. From septicemia six of the wounded died between the sixth and twenty-first day, and there were thirty-five deaths from pyremia. This is, however, by stretching the denomination to the utmost, so as to embrace all the cases in which the patients died, having profuse suppuration, accompanied by intense remittent or intermittent fever, with or without shivering, and with or without metastatic abscesses. He thinks it of importance to insist upon how broad is the sphere embraced by pysemia, and that we should be made aware of the fact that in many cases in which, e.g., secondary hamorrhage hastens death, or in which empyema may have at an early period paralysed respiration, still it is the aborption of pus which has been the most essential feature in the death of the wounded. Among all his wounded patients he is able to indicate only six who died from other causes than septicesmia or pyremia. Four of these were cases of acute hemorrhage, one of peritonitis, and one of typhus. One may readily be deceived by the fact that other causes have contributed to the fatal result. Thus, eight instances of secondary hemorrhage might be put down as causing death from loss of blood, and in five gunshot wounds of the thorax the patients might be stated as dying of gradual suffocation and exhaustion from suppuration. In this way we should diminish the number of cases of pyremia by thirteen, and the number would be still further lessened if we designated the deaths of those who exhibited neither shivering or metastatic abscess as "deaths from exhaustion." The English would bring under the head "shock" some of the cases which, having undergone amputation or excision in the pyremic stage, die soon after the operation; and as those who suffered from severe and partly bloody diarrhora might be designated as instances of dysentery or commencing typhus, we might at last come to the conclusion that very few of the wounded had been lost from pysemia. Professor Billroth is glad to be able to asy that he has met with no attempt as ted-deception in this matter. The Surgeons with whom be came into contact were under no doubt as to the exceediver varages caused by pysemia in certain classes of wounds, while they felt greatly concerned that the immense improvements which have been made in the care of the sick and wounded and the construction of Hospitals, have not had that influence upon the worst kinds of injuries that might have been anticipated.

Among the 35 deaths from pyzemia, autopsies were performed in 21. In 15 of these, abscesses of the lungs were found, and in 1 a large abscess of the liver; but no other form of metastatic abscess was met with. In 6 cases it was expressly noted that no suppuration was detected. Of the 35 cases, 28 occurred in gunshot wounds of the pelvis, thigh, knee, and chest, wounds of other parts of the body only being 7. For the right understanding of the question of pyemic intoxication, it is of especial importance to observe that the affection in a preponderating number of cases appears at certain stages only of bad injuries of the bones and joints. As the exact period of its commencement, and still more of the transition from the slight to the severe form, is of very difficult determination, we can only indicate with certainty the periods after the injury at which death took place. According to the table given of these 35 cases, 3 died during the second week, 12 in the third, 11 in the fourth, and the remaining 9 from the fifth to the ninth weekconfirming the fact already made out by Professor Billroth (Archiv fur Klin. Chir., B. ix., p. 100), that death especially occurs during the third and fouth weeks. In this paper, also, he proves statistically that the disease occurs in certain conditions of the wound which are essentially connected with the nature of the injury and the part of the body which it implicates. While an outbreak of pyremia is thus connected with certain recognisable circumstances, and its occurrence independent of such is quite exceptional, hospital gangrene, diphtheria, crysipelas, and trismus are entirely exempt from any such relationship, gaining access to the body as they almost do from without, the poisonous materies being capable of infecting any wound and in any stage. Septicemia usually occurs during the first days after bad injuries, prior to the formation of pus in the wound; but yet, at a later period, under the operation of external causes, or, more rarely, through spontaneous accidents (as hemorrhage, decomposition of foreign bodies in the wound, etc.), septicæmia or septo-pyæmia may also be produced. Professor Billroth has never yet seen a case of pyremia in which either on the living or dead subject the origin of the infection could not be traced to the existence of a collection of purulent or putrefactive (Jauche) discharge.

He thinks it necessary to reiterate his views concerning this disease,(a) because many Surgeons still hold the opinion that pysemic poison, like that of typhus, may be inhaled or swallowed. The wounded patient, however, is always rendered pysmic by means of his wound, or of a source of purulent · discharge. The infecting materies is forced through abnormal conditions of compression into the lymphatic and venous circulation, or, originating in thrombi of these vessels, it becomes detached by movements, and thus directly introduced. For the most part, acute inflammation of the wound, whether this be primary or relapsing, gives rise to the formation or retention of an especially poisonous pus, the walls of the cavities containing it being well disposed for its absorption. A small amount of increased compression suffices to force the poison into the circulation. The character of the wounds, the parts they occupy, the conditions of the compression of the blood in their vicinity, their position under compressing muscles and

facis, and the like, greatly influence the occurrence of pyemia. Next are those circumstances which may accert an injurious modifying influence on wounds which seemed disposed to pureue a favourable course—mechanical injuries, artificial bleeding, great fluxionary discharges, or the accidental impregnation of the wound with poisonous organic matter derived from the wounds of others, through the medium of attendants, thresings, or instruments—all those are points to which our attention should be directed. Yet, in any Surgical wards, managed according to modern hygienio principles, they can exert little effect in their etiological relation to pysmis. The occurrence of so many cases in the third and fourth week

at Weissenburg might be regarded by some as an epidemic; but Professor Billroth's prior experience at Zurich, extended over several years, has demonstrated that certain kinds of bad wounds are alway endangered at this period of their course. Hospital gangrene, erysipelas, and trismus may be spread epidemically, but he has never witnessed such an occurrence in pyæmia, and strongly doubts its possibility. Pyæmia cannot. be prevented by isolation, nor by the most scrupulous cleanliness, the best nursing, or the purest air. By all these means we can only secure that no infection shall be carried from bad wounds, furnishing more or less poisonous pus to others of a simpler nature, and that the patients may better support the intense inflammatory action, and more powerfully resist the secondary fever. Professor Billroth believes that quite enough, and, perhaps, too much, has been conceded to the influence of hygienic and dietetie influences in relation to pysemia. Such was his opinion when he set out on his late mission, and he has returned with it still more confirmed. At Weissenburg. he had every reason to be content with the ventilation, the care of those who were in charge of the sick, and the diligence of his Surgical assistants. At Mannheim, the wounded were treated almost in the open air, and had the advantage of most excellent and devoted Professional aid; but in the same classof wounds, and at the same period of their course, the mor-tality was just as great as at Weissenburg.

Dr. E. Müller, the Director of Vaccination at Berlin, in a recent communication, observes that last year he drew the attention of the Profession to the danger of small pox being imported by the French prisoners, and to the necessity of a general revaccination. And, in fact, in many localities in Prussia the disease has been so transported; while everywhere there are complaints made as to the deficiency of lymph for revaccination, notwithstanding that this is sent daily from the establishments into the provinces. The reason of this is that the majority of Practitioners employ it in revaccination, without, at the same time, vaccinating children with it. Of course it is easier to have this lymph sent for the revaccinations, but manufactures of lymph as yet are not in existence; and what establishment can possibly supply it in sufficient quantity when the revaccinations are numbered by hundreds of thousands? Practitioners are urgent in their demands for large supplies of lymph; and as this, when they get it, is only employed for revsecination,. the need remains as great as ever. Had they vaccinated children with it-who, indeed, require it still more than adults -more than enough for the most general revaccination would have been procurable. But it is said that the public will not consent to wait for revaccination, and therein it may be right. enough in the presence of small-pox; but the Practitioner who has neglected furnishing himself with a good supply of lymph, by timely vaccination of children, has no right to call upon thevaccine establishment to repair his error. With the best wish. even to do so, it is quite unable, where soldiers, whether at home or in the French provinces, and prisoners of war, all require to be revaccinated. Even the large supplies of glycerined lymph which Dr. Müller has accumulated in his establishment will at last become exhausted. The military Surgeons, it will be readily seen, must have large quantities of this sent for revaccination, inasmuch as they have not the power of

⁽a) For an able analysis of these, see Mr. Winsor's Report in the Year-Book of the Sydenham Society for 1862.

multiplying the supplies through the agency of children. But in Germany itself the Practitioners alone are able to help themselves: and upon them alone should blame rest if in places visited by the small-pox there is not abundance of lymph. Where small-pox prevails, there can be no want of children. The lymph furnished by the establishments should be employed in vaccinating them, and maintaining a supply, instead of this being let to die out through revaccination. In relation to the increase and preservation of a supply of lymph, Dr. Müller again recommends in the most urgent manner the use of glycerined lymph.(b) The fact that in the present emergency his own establishment can go on supplying lymph, while other establishments have quite exhausted their means, is solely due to this invaluable resource of sanitary police.

ABSTRACT OF THE CROONIAN LECTURES, DELIVERED AT

THE COLLEGE OF PHYSICIANS BY DR. PARKES.

THE subject of the Croonian Lectures was the Elimination of Nitrogen. After some remarks to show the importance of pitrogen for the growth and nutrition of animal and vegetable life, three questions were proposed :- 1st, as to the mode in which nitrogen entered the human body; 2nd, as to the mode in which it passed out; and, 3rd, as to the combinations it formed and the parts it played between the two points of entrance and of exit. The first lecture was occupied with the answers to the first two questions, the replies being that the nitrogen used in nutrition entered entirely with the food, and in the form of the substances conveniently called albuminates, and that its efficient channels of exit were through the kidneys and the bowels. This last point was discussed at some length as being fundamental to the whole inquiry, since, if the channel of exit could vary and be at one time chiefly by the kidneys, and at another in great measure by the skin, as has been alleged, or by the lungs, the difficulties of experimental inquiry would be enormously increased. The lecturer adduced a good deal of evidence on this point, and finally ranged himself on the side of these who look on the discharge of nitrogen through the skin and lungs in health, except in respect of the through the sain and lungs in neathi, except in respect of the small portion which passes away in the cast off epidermal through those channels in cases of disease, the lecturer did not express himself so confidently, but, while he admitted that be could not refuse the evidence that area has been detected in the sweat, and ammonia in the breath (as an exhalstion from the blood), he evidently considered the matter as requiring far more experimental evidence than had yet been adduced.

The importance of settling the exact channels of discharge of nitrogen became evident in the second and third lectures, when the whole course of the argument proceeded on the view that the discharge of nitrogen in the urine and faces repre-sented the nitrogenous substances which had become effete in the processes of untrition. The relative quantities of in the processes of intrition. The relative quantities of nitrogen discharged by the urine and faces in healthy men whose food was perfectly digested were next given; the average daily discharge in five men on the same diet being stated to be 26 grains in the fieces, and the proportions of fiecal to the total climinated nitrogen being 9.5 per cent. A discussion of the method of determining the nitrogen in the excreta finished the first lecture.

In the second lecture the third question was answered, as far as it can be at present. The lecturer commenced with tar as it can be at present. In recurred commence what he stated to be a cardinal fact-wize, that the exit of nitrogen was influenced in a marvellous way by the entrance, and was, within certain limits, absolutely governed, so to speak, by the entrance. This fact, made certain by the olaborate experiments of Pettenkofer and Voit, was tested and confirmed by experiments of his own, in which men were kept on diet containing varying quantities of nitrogen, and it was shown how, at will, the amount of nitrogen in the urine could be

how, as will, the amount of integral made to vary.

Starting, then, from this fact, the lecturer used it as a clusto unravel the place of the formation of urea. He first discussed the old doctrine of unprofitable or luzue consumption, or that a certain amount of nitrogenous food is always or that a certain amount of introgenous food is always surplusage, and is got rid of by immediate exidation in the blood, without taking part in what may be termed the vital acts in the body. Having adduced what he conceived to be very strong arguments against this doctrine of luxus consump-tion, he concluded that the intimate dependence of the amount of urea on the amount of nitrogen in the food in health could not be explained by immediate oxidation, but must depend on not be explained by immediate oxidation, but have depend on an influence exerted on the albuminates by the action of some organ or tissue in the body—or, in other words, that the formation of urea was not an inanimate oxidation, so to speak,

but the result of the action of some living parts.

He then inquired what structures in the body could thus continuously and at once transform albumen into urea, so as to account for the fact that the exit of nitrogen in health so constantly and exactly balances the entrance. He first looked to the actions of the muscular system, but concluded that the overeinents on exercise clearly showed that during great rauscular exertion the changes in the climination of nitrogen are quite inconsiderable. He so far accorded with the views of Edward Smith and Voit, although he differed with the latter in believing that there was an increase, though a slight one, in nitrogenous excretion after exercise, indicating the destruction of some, though doubtless a small part, of the structure of the muscle. But this increase was quite insufficient to account for the phenomena in question. Moreover, he had kept men on different amounts of nitrogenous food, and under varying con-ditions of rest and exercise, and still found the exit of nitrogen follow the entrance, no matter what the condition of the muscles might have been.

He then turned to the nervous system, but decided that here, also, the evidence of nitrogenous climination immediately consequent on nerve-work of any kind showed that no alteration in nervous work could be produced by the varying entrance of nitrogen—which would explain why, if an increase in nitro-genous food was made, that increase was accurately reflected

in a few hours by an increase in urea.

The only other structures in the body whose action seemed at all likely thus to change albumen into ures were the gland cells, and to these he now turned. He considered that he had cells, and to these he now turned. He considered that he had been led to them by a fair negative argument, but he now in-quired what positive evidence was available that urea was found in them. First, as to the liver: that urea was found in the liver seemed certain, both from physiological and patho-logical evidence. To take the latter first, he alluded (with an apology for mentioning his own name) to his observations on the diminution of urea in hepatic absees, published more than a quarter of a century ago; and to the absence of area in the a quarter of a century ago; and to the absence or area in the acute yellow atrophy of the liver, as shown by Frerichs and Murchison, when the destruction of hepatic cells is attended with the non-formation of urea. Turning to attended with the non-formation of urea. Turning to physiology, he quoted Stokvis, Heynsius, Meissner, Bal-lard, and Perls, as showing the detection of urea in the liver, and then noticed E. Cyon's experiments, who, by analysis of the blood before and after traversing the liver, acems to have proved that urea is actually formed in the liver. The formation of uris acid in the liver was also referred to, and the probable formation of urea, and especially of uris acid in the spleen, and, perhaps, other gland cells, was noticed.

The result of the discussion was to the effect that the appearance of urea in such strict relation to the amount of nitrogenous food was to be accounted for by the action of the gland cells, and especially of the liver cells, on the albumen of the blood. The mode of action he did not preteud to explain, but referred it to the so-called osmotic force of Graham, causing a splitting up of the particle of albumen into urea and, probably,

a carbo-hydrate of some kind.

The lecturer then summed up the general formula of the facts he had brought together in the words of Voit, which he accented as correct. Voit draws a broad distinction between acceptor as correct. You craws a broad distinction between the albumen of the organs, which is fixed, and comparatively stable, and changes slowly, and the circulating or store albumen, which, moving with the blood, is undergoing continual metamorphosis in the gland cells, and is being transformed into other substances, of which ures forms one. The lecturer put his own interpretation on this doctrine as follows:—Taking a muscle, for example: he believed that a voluntary muscle, excited by the will, could perform work by the aid of fats and starches, and he adduced an experiment in which, on the

⁽b) For Dr. Müller's testimony as to the value of glycerined lymph (very important to ourselves just now), see Medical Times and Gazette, May 12, 1828, p. 282; July 27, 1897, p. 07; and April 18, 1988, p. 425.

fourth day after nitrogen had been cut off from the food, as man did in extremely hard day's work. In doing this work, a certain, generally hard day's work as the work as certain, generally hard day's work as certain, generally as the work as certain, generally as the passes of the standard will for contraction; it would then be removed, not trussformed into urea. In the muscle, thus losing a small part of it substance, would attract from the store of albumen brought to stance, would attract from the store of albumen brought to stance, would attract from the store of albumen brought to stance, would attract from the store of albumen brought to stance, would be stance, would be stance, would be stance, when the contractions or in the ambounced as the part of the part of the case would be small, but would no doubt depend directly on the amount of work done. Then the pland cells, on the other hand, giffed, so to speak, with a sort of independent life, would take the introgressor substance brought to them, whether this came at once from the food, or from the action of the nuncles or at once from the food, or from the action of the nuncles or the herease in the urea. Such as to speak with a sort of independent life, would take the introgressor substance brought to them, whether this came at once from the food, or from the action of the nuncles or the herease in the urea. Such as they are the herease in the urea such as they are the herease in the urea. Such as they are the herease in the urea such as the part of the such as a such as the part of the such as a such as the part of the such as a such as the part of the part of the such as the part of the

If this view be accepted, Dr. Tarkee argued that it must have a great influence on the dietetic treatment of diesess. The possibility of starving the liver cells, as far as nitrogen is concerned, was pointed out, and it was suggested whether even rapidly growing malignant tumours might not be stanted in they derive the amount of circulating nitrogen from which they derive the same of circulating nitrogen from which and starches, from which muscaiar and nervous force could be evolved, and deprivation of nitrogen which is necessary for growth, seemed to be the principles indicated by the physiological view which had been brought forward.

logical view which had been brought forward.

Having gone into these points at some length, the lecturer stated that in the third lecture he should inquire how far the view he had brought forward would explain the phenomena of

THE AUTUMN TOUR OF A DRESSER, 1870.

"AID TO THE SICE AND WOUNDED IN WAR.

"AT a meeting held on Monday, at 8, 8t. Martin's-place, Tra-fagar-square-present, Lieut.-Colonel. Loyd-Linday, V.C.,
M.P., in the chair; the Duke of Manchester, F.M.; Sir J.
Bargoyne, Bart; Lieut.-Colonel Hon. C. Linday, M.P.; Capt.
Douglas Galton; Dr. A. J. Pollock, Coptain Heavy Drawkenbury, and Lord Elliot—the Glowing resolutions were passed:
1. That Dr. A. J. Pollock, Mr. Prescott Hewett, and Surgeon-Major Bostock, form a sub-committee for the purpose of selecting six Surgeons or dressers in every way qualified to serve as a detachment from this Society with the French and Prussian National Societies for Aid to the Sick and Wounded in War, etc."

A paragraph which appeared in the Times in the beginning of Angust, of which the above is a literal copy, attracted my attention. The session was just over. I was strongly interested in the great event of 1870-the war. Here, then, was an excellent opportunity of enlarging my Professional experience, and of being an eye-witness of the stirring events about to occur. No sooner did I conceive the idea than I acted upon it. Accordingly, through the influence of Mr. Prescott Hewett, my application to the National Society for Aid to the Sick and Wounded was accepted. I was instructed to proceed in twenty-four hours' time to Berlin in the capacity of dresser attached to three Surgeons, who were to start at the same time; and I was informed that for my travelling expenses, etc., I should be allowed £30 a month, and that I should be furnished, on my arrival at Berlin, with the badge and accompanying documents as decreed by the Geneva Convention, and that we should have to report ourselves to the anthorities of the central "Hulfsverein Comité."

My pay for the first month was at once placed in my hands, and I was directed to proceed to the Foreign Office to obtain my passport, which was supplied free of charge.

Everything being thus in readiness, I started the same even-

ing in company with the gentlemen with whom I was associated. We proceeded en route for Berlin. On our way wo had but two stoppages. The first was at Aix-la-Chapelle, where the carriages were searched by Prussian officials, in consequence of a telegram which had been sent down the line from the frontier town of Hebersthal, to the effect that a French spy was in the train, who must be arrested at once. The obnoxious individual turned out to be in our carriage, The obnoxious individual turned out to be in our carriage, whence he was promptly dragged forth, despite his indignant eaths and protestations in bad German that he was utterly innocent of what was imputed to him. However, as we came across him the same night at our hotel in Cologne, it is to be across him the same ingular our hotel in Cologne, it is to be presumed that he was a victim of suspicion and of polico officiousness, which is quite as rife in Germany as it is nearer The second delay was at Cologne, the city of a thousand-and-one smells (mostly bad), owing to the line being blocked up by trains in the service of the German army. This was the night of Friday, August 12. We found we could not proceed on our journey before the morning of Sunday. How-ever, none of us regretted this, as it was here we had our first practical experience of the war. The railway-station at Cologne can boast waiting-rooms which might serve as models Congrae can loose varing-rooms whom magas ever as motion to our railway companies in England, so completely as the congraint of the congraed o The cases we chiefly attended to were gunshot wounds of the extremities. There were none of a nature which called for any special remark. Of course, there were a number of German military Surgeons in the room, attending, with unremitting kindness and assiduity, on French and Germans alike.

It was here, too, that we saw, for the first time, the Prussian Landwehr, who had just been called out, and who were marching through the town in thousands on their way to the front. Though certainly a fine and perfectly-drilled body of men; it has since struck me that the Landwehr have been much overrated as regards their phaysiar by newspaper correspondents. Taking regiment for regiment, they do not come up to very much the same kind of men in general appearance, but decidedly wanting in the squareness of shoulders and depth of chest which is the characteristic of the British infantry soldier.

Before quitting the subject I may remark that we were put to some inconvenience by the scarcity of attendants in Cologne, owing to the great number of the natives that were called out

to serve in the Landwehr regiments.

On the Studay we accretained, through the kindness of the Etappen-Commandant, that we could be provided with free passes on to Berlin, on showing our ercdentials from the National Society, of which we accordingly availed ourselves. We arrived the same evening at Berlin, after another stoppage on the road, occasioned by one of the carriages statehed to our train running off the line. However, as the only occupent of this earriage was a Prussian officer whe was sakin at Sambrucken, and who was being conveyed to be interred in Berlin, Nord, which I can recommend to all as affigure, and as having the reputation of possessing about the best table d'hivis in Germany.

Following our instructions, we applied the following morning

is Berlin at the Medical Department of the War Office, and had an interview with Dr. Grum, Inspector-General of Hospitals, who quietly, but courteously, remarked that be feared our knowledge of the German language was odeficient, that it might prove a hindrance is a great measure to our tendence of the country of the Red-cross Society in Prussis. The Country reserved us with great urbanity, and demonstrated clearly and simply the arrangements of the different war Hospitals on the frontier, and in reserve at different war Hospitals on the frontier, and in reserve at different war Hospitals on the frontier, and in reserve at afterwards provided us with the Red-cross badge and two cards, respectively green and pellow in hue, and each bearing the stamp of the red cross, and Prince Pless's signature in lithograph impressed on it. One of these cards, we were given to understand, was a free government railway pass to provide us with board and logling while stached to the Medical service of the army. However, as we subsequently ascertained, on making use of the last-mentioned card, that

350 Medical Times and Gasette.

both provisions and lodging supplied to us through its agency were of a very inferior quality, we were not long in dis-pensing with its use altogether. The Count then directed us to hold ourselves in readiness to proceed at a moment's notice from the War Office to the front, and after thanking him for his courtesy, we withdrew.

The next day, Tuesday, August 16, the necessary instructions not having arrived, we occupied ourselves in visiting the chief places of interest, amongst others the "Feld-Lazareth" (temporary field Hospital), constructed after the American fashion in echelon (or V-shaped) with the administrative department in the centre; the flanks of the V being a series of wooden barracks containing all the necessary appurtenances of a field Hospital. The barracks were admirably adapted for their purpose, being plentifully supplied with light and venti-lation. Later in the day we visited the Hospital of La Charité, the largest in Berlin; it contained about 150 wounded soldiers, all seemingly light cases, 1300 others, and a few maternity cases

Next day, still finding time heavy on our hands, we visited the Uhlans' barracks, a tremendous stone building, some two miles from the city, which was converted into a Hospital under the superintendence of Professor Virchow, who was kind enough to introduce us to Dr. Thompson, an Edinburgh Surgeon, who had also volunteered his service to the Prussian army. The latter took us over the wards; but here again we saw very few severe cases, one or two penetrating wounds of the chest, but mostly gunshot wounds of a light character. It was in this Hospital I first saw the much-dreaded Turcos—" the an this property is not saw the moon-created furcos—"the apposition of the Napoleonic civilisation," as the German cari-caturista called them—who had, as we ascertained, only taken a fortinght on their journey from Algeria to Berlin ris Saar-bruck; one of these gentlemen had a very narrow escape, a shot just grazing and taking off part of his upper lip at the root of his nose.

On the previous Saturday, the Hospital had the honour of a visit from the Queen, Princess Frederick Charles, and our own Princess Royal, who spoke to every patient, and gave each of them (French and German) a small bouquet of flowers.

Thence we proceeded to the Augusta Hospital, erected by the voluntary contributions of the ladies of Berlin in connexion the voluntary contributions of the ladies of Berlin in connexion with the Red-cross Society after the war of 1806, a model of perfect construction, administration, and decoration, the re-sone few wounded soldiers; all of them, especially the French, wonderfully lively. One colonel of the French army, wounded in the left arm and leg, seemed to enjoy his clay pips immensely. On our return to our hotel, we found a barrel painted white, with the inevitable red cross on it, placed outside the steps, with the following inscription in German:
"Please give a good Havanah to a wounded soldier!" The seemed to touch the German heart immensely, for, in the course of the day, no less than 1000 "weeds" were dropped in, and 2500 more on the following day.

The long-expected orders came at last, and we left Berlin on Saturday morning. Angust 20, leaving the town in a great state of excitement, owing to the news of the victories before Metz, which had arrived the previous evening. Our original instructions were to go to Worms; but the Crown Princess, in instructions were to go to Worms; but the Crown Princess, in compliance with the request of her sister, the Princess Alice, to have English Surgeons attached to the Hessian division, changed our destination, and directed us to go to Darmstadt. After putting up for the night at Frankfort, we started in the morning for Darmstadt. Here we had the honour of being presented to the Princess, who expressed great delight at see ing us, having, as she said, quite given us up. Her Royal Highness, I regret to say, was looking very worn and delicate, having just heard of the fearful slaughter of the Hessian troops at Gravelette. Her Royal Highness has earned golden opinions of all with whom she has been brought in contact during this war. She has been constant in her attendance on the wounded in the Hospitals, and many a poor private has opened his eyes with wonder to think that a Princess of the blood Royal of England should have tended him with greater attention than he might have expected from an ordinary nurse.
The Princes introduced our chief to Herr Weber, the head of
the Hessian "Hulfsverein für Verwundete Soldaten," who
informed us that he would send us on to join Prince Lonis of Hesse (General of a division of the 9th Army Corps) the next day, before Metz; and, accordingly, the same evening we started in accompany with a Sanitata corps which was bound to the same destination.

My further experiences of the journey, and our work around Metz with the army, I purpose giving in my next paper.

THE SANITARY COMMISSIONER OF THE PUNJAUB ON THE CONTAGIOUS DISEASES ACT IN INDIA.

SURGEON DE RENZY, Sanitary Commissioner for the Punjaub. in his annual report on the sanitary commissioner for the l'unjant, in his annual report on the sanitary administration of that province for 1869, publishes an extract from a letter addressed by him in June last to the Secretary of the Punjanth Government relating to the prevention of venereal diseases. This terming to the prevention of volucies unlesses. However, the terminal properties that the Contagious Diseases Act as at present in force in this country. On perusal we find that Mr. De Remy disselaims all sympathy with the objections which have been raised against this Act on the score of its tendency to promote the country of the contagion of immorality, its being unjust to women, and so forth; for he does not believe that such charges can be established.

The recent expression of the personal opinion of the Premier, The recent expression of the personal opinion of the realest that it is by the ascertained moral tendency of this exceptional legislation that it ought ultimately to be judged, justifies us in stating that Mr. De Renzy should not be classed among the opponents of the Act. He considers its success doubtful, but regards its operation in England with great interest as a most important experiment, and expresses his opinion that, if the Act prove successful in England, it will be the duty of the Indian authorities to profit by English experience, and apply the system in that country when they have removed the most serious of their sanitary defects. He justly considers that while choicra, diarrhosa, dysentery, fever, and hepatitis continue uncontrolled, the prevention of venereal diseases as a source of inefficiency, mortality, and invaliding of European soldiers, sinks into comparative insignificance. On purely financial grounds, he objects to the experiment being tried in India just at present—particularly as it is proposed to extend the operation of the Act from military cantonments to the civil population at the cost of municipal funds—as he doubts whether, in the present sanitary state of the country, measures for the prevention of renerval diseases are the best investment available for the scanty portion of the public

income that can be spared for use scatty porson or use pinning income that can be spared for works of sanitary improvement. With reference to certain statements made by Dr. Duncan Macpherson, Inspector-General of Hospitals, and accepted by the Sanitary Commission of India in 1864, that fully two-thirds of the soldiers who inable veneral are invalided within five years, and sent out of the service with a loathsome poison nve years, and sent out of the service with a loathsome poison circulating in their veins, which passes down to their posterity, Mr. De Renzy, using Dr. Bryden's tables for the five years from 1864 till 1868, shows that Dr. Macpherson's estimate of the amount of invaliding of European soldiers on account of venereal diseases is immensely greater than the figures prove to have been its real extent. He shows that the

figures prove to have been its real extent. He shows that the percentage of sphillite admissions to total admissions from all causes is 184, of sphillite of the state of the India, and shows a rate of loss from such causes exactly identical with that observed during the same period in the United Kingdom, and a somewhat higher proportion to the total number finally discharged from the service, of men disabled by enthetic diseases. Any argument, therefore, in favour of the Contagious Diseases Act in this country as a means of the corner of the contract of the contract of the country as a means of the army, applies with equal force to India. From the two tables, the important fact is elicited, that of the astrone contract of a United Kingdom and India, we are also hypervaliate and the contract of a Contract of the Contr battalion 950 strong every five years, by invaliding alone, of men disabled by enthetic diseases.

Year	Annual mean strength.	number discharged from the	Total number discharged from the ser- vice disabled by enthetic diseases.	Proportion per 1000 of annual mean strength of men disabled by enthetic diseases.	Proportion per 1000 discharged from the ser- vice of men disabled by enthetia discases.
1864	 59,795	1105	81	1:4	76
1865	 62,589	1285	135	2.1	105
1866	 58,901	1295	107	1.8	82
1867	 56,896	1145	70	1.2	61
1868	 52,887	1097	68	1.1	53
Total	 291,068	5927	454	1.5	76

Mr. De Renzy, having employed Dr. Bryden's figures for the subversion of Dr. Duncan Macpherson's loose estimate as the subversion of Dr. Duncan Macapherson's loose estimate as to the influence of venereal diseases as a cause of invaliding of European soldiers, objects to these figures themselves that they convey an alongwher exaggerated idea of the prevalence of venereal among the troops, as to that they are, and for the same or for different infections; and that am suffering from relapses of genorrhoes, for instance, may represent half-a-dozen admissions for what is prectically the same disease. But in raising this objection, Mr. De Renuy appears to us to have lost sight of the fact that represented by the number of nave uses mgnt of the fact that the total intensiency of a regi-ment from venereal diseases is represented by the number of days spent in Hospital by men suffering from such affections, and that a hundred days so spent by one man in five periods of twenty days each is an great a loss to the service, and great an increase to the duties of men not in Houpital, as repeat an increase to the duties of men not in Houpital, as would result from twenty days being spent in Hospital by each of five men; so that, although the number of admissions does not absolutely represent the number of fresh cases of venereal infection, it affords an indication as to the inefficiency produced by such causes.

The annual reports of the Army Medical Department generally contain tables showing the loss of service of the whole Army in the United Kingdom from enthetic diseases, but do not supply the same information concerning the Army in India. On reference to the reports from 1864 till 1868, we have constructed the following table, which, taking the loss of service in the United Kingdom as a standard, will enable as to form an approximation to what that loss in Bengal must be :-

Year.	Proportion 'per 1000 soldiers of admissions from enthetic diseases in the United Kingdom.	Loss of service of the whole army in the United Kidgdom from enthetic diseases.	Proportion per 1000 soldiers of admissions from enthetic diseases in the Bengal Presidency.
1864	290-7	6.98 days	241.5
1865	282.8	6.90	216-9
1866	258.5	5.91	206-9
1867	291.5	6.25	•163-9
1868	282.2	Not given.	+188-8

A considerable reduction in the rate of admissions from venereal diseases has thus occurred in Bengal, and assuming that a relation between the rate of admissions and the loss of service, similar to that observed in the United Kingdom, prevails in Bengal, we may fairly conclude that a corresponding reduction of inefficiency from the same cause would have been evident during the years 1867 and 1868 if the means of com-parison had been at our disposal. The results of the measures taken during the last four or five years for the prevention of venereal diseases in the Bengal Presidency thus appear to afford more ground for congratulation than Mr. De Renzy accords to them. It is also particularly worthy of remark that the reduction in 1867, as stated in the note to the table, was most remarked in cases of syphilis, and the increase in the following year was chiefly in the comparatively harmless affection, gonorrhoea.

Another objection raised by Mr. Do Renzy to the extension of the Contagious Discases Act in India is based on his or the Contaggious Diseases Act in India to based on his opinion that the Act has not any et furnished results of a contract of the contract o paper on the Statistical Results of the Contagious Diseases Act, will give Mr. De Renry some information of later date than any available to him at that on which his letter was addressed to the Secretary of the Punjash Government, and will probably cause him to alter his opinion as to the limited results of the Act in England. This table shows that, while in millitary stations under the operation of the Contagious Diseases Act the admissions of solitons into Hospital for primary venerual sore admissions of solitons into Hospital for primary venerual sore admissions of solitons into Hospital for primary venerual sore that the Hospital for the Ho or where it was only just lately put in force, the admissions from that cause have remained almost stationary—namely, 119 per 1000 in 1864, and 111 per 1000 in 1869. In both classes of stations, admissions from gonorrhea remain almost without

alteration; it is hence apparent that, as regards the most serious forms of enthetic disease, the Contagious Diseases Act has so far exerted a very beneficial infinence in this country.

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

TURRDAY, FERRUARY 28.

GEORGE BURROWS, M.D., F.R.S., President, in the Chair.

A PAPER, by Dr. JULIUS ALTHAUS, was read

ON NEURITIS OF THE BRACHIAL PLEXUS.

In this paper the author has given a detailed description of a case of peripheral paralysis and anæsthesia affecting the whole of the right upper extremity, not a single motor or sentient nerve-fibre of the same having been spared. After excluding ecrebral, spinal, and sympathetic paralysis, the influence of lead, of hysteria, and other causes, the author traces the affection to a rheumatic inflammation of the brachial plexus before its entrance into the axilla. The case was at first treated with various medicines and faradisation, but without any beneficial influence. The patient, however, recovered completely by a judicious use of the continuous galvanic current. Dr. Althaus then analyses the mode of therapeutic action of the continuous current in this case, tracing it partly to its power in causing the paralysed muscles, which did not respond to faradisation. to contract, and thereby preventing their strophy; and partly to a catalytic influence in effecting a proper relation of the bloodvessels of the affected parts, so as to enable these to take unouversees or an americal parts, so as to enable these to take up, and remove into the general circulation, pathological effusions which compressed the nervous matter, and thereby impeded the conveyance of the nervous influence to the distal

impered the corryance of the nervous induced to the distal parts of the nervous territory.

Mr. Brudsell Carte inquired whether the continuous current had been so applied in the case described as to include the brachial ploxus in its circuit, and also whether Dr. Althaus had seen a curative effect from this current in other cases of neuritis. Neuritis of the optic nerve was so common a cause neurities. Neurities of the opine nerve was so common a cause of blindness that any addition to the present means of encoun-tering it would be a great boon to ophthalmic Surgeons. It was manifestly impossible, however, to include the optic nerve within the circuit; and hence the bearing of his question whether or not that had been done in the present instance. He asked, also, whether the irritability of the muscles to the induced current was restored

Dr. Powers thought it probable that the curative influence had in reality been that of the prior treatment, and that after the removal of some effusion, the muscles were left paralysed by disuse, and required some strong stimulant to set them in

Dr. Buzzard thought the case possibly hysterical; and related the particulars of one of a somewhat similar kind, in which the patient had been cured by the application of a powerful faradic current.

Dr. W. Ools inquired whether there were any cases on record in which paralysis of a superior extremity had been produced by disease of the cervical sympathetic. Mr. Twomas Smith withheld his consent from the diagnosis.

There was no history of tenderness, which he thought would certainly have been present if there had been neuritis.

Mr. Savony could not accept the nuthor's explanation. Ho

mr. OAVONY could not accept the author's explanation. Ho asked whether effusion takes place in nerves, and of what? It is took place would it produce paralysis? He thought probably not, when the absence of paralysis in cases where nerves were pressed apon by tumours was considered. We were pressed upon by tumours was considered. He asked, also, what the electric current would do in such a case; how it would dilate bloodvessels, and why dilated bloodvessels should

would diste blocky essents, and way distact because shows a take up effusior eplied that the current was applied by placing the positive pole over the brachial plexus above the clavicle, and the negative pole over all the paralysed muscles is succession. The irritability of the muscles to the induced current was restored, at first very slowly, but afterwards with a rush.

Dr. Powell's view was untenable, because museles paralysed
by disease never lost their irritability to the induced current. Dr. Ogle would find several cases of paralysis of an arm from disease of the cervical sympathetic in Meyer's "Treatise on Electric Therapeutics." Such cases as those mentioned by

Reduction from preceding year most marked in cases of syphilis, and considered to be probably attributable to the proventive measures intra-duced during 180%.

⁺ Increwe over preceding year, chiefly from gonorrhoa.

Dr. Buzzard were very rare; and his own patient had been subjected to careful faradisation for a month. Mr. Thomas Smith's objection was met by saying that the paralysis had already existed for four months when the patient came under observation; and there was a history of tenderness during the first ten days. Mr. Savory must have seen many cases in first ten days. Mr. Savory must have seen many cases in which the growth of tumours had produced paralysis, when they pressed upon nerves so situated as to be unable to clude the control of the control of the control of the control others. He could not explain how the galvanic current produced dilatation of bloodressels; but he knew the fact, and the dilatation might be seen to take place under the positive pole.

A paper, by Dr. C. HILTON FAGGE, was read

ON SPORADIC CRETINISM OCCURRING IN ENGLAND. After a brief reference to the occurrence of endemic cretinism in Somerstshire (as described by Dr. Hugh Norris, of South Petherton), the author passes on to the consideration of a disease of which a few scattered examples have been recorded. and which has been termed cretinism, but which differs in certain important respects from the endemic form of the disease.

The features in which this "sporadic cretinism" resembles ordinary "endemic cretinism" are the following:—The body ordinary endemic cretinism are the following:—Ine body is exceedingly stunted; the hands and feet are short and broad; the face is broad; the eyes are widely separated by the flat root of the nose; the alse nasi are thick; the nostrils are rounded; the mouth is very large, and generally widely open; the lips are thick. When "sporadic cretinism" is congenital, it is also attended with deficiency in the mental powers, varying in degree, but of a character very like that which belongs to the "endemic" form of the disease. The child is quite free from the mischievous tendencies of the ordinary idiot. It is good-tempered, and appears to be pervaded with a placid con-tentment. It often sits for hours perfectly quiet, wherever it may be left, and it is disinclined to move of its own accord. Sometimes it walks only with the assistance of a chair, even when it has passed the age of puberty. It is not rarely doaf and dumb. The resemblance between endemic cretinism and the disease now under consideration was pointed out to the author by Dr. Gull. In certain important respects, however, this disease differs from ordinary cretinism. In the first place, it is sporadic. It does not arise by the intensification of a local morbid influence, of which the earlier manifestations are evident in the parents of those affected with it. It springs up, genein the parents of those affected with it. It springs up, generally without apparent cause, in the offspring of a healthy a case exhibited to the Society at its meeting, this merbid change commenced at the age of 8 years. Up to that time the patient, the daughter of people in comfortable eiseumstaness, had been well developed. She had an illness, which was believed to be wen acvetoped. She had an illness, which was believed to be measles, after which she ceased to grow, and her bodily con-figuration underwent a complete change. Now, true endomic cretinism is said always to commence before the end of the cretinism is said always to communic order die each of the fourth year. Goitre is never present in "sporadic cretinism"; indeed, in the only two post-mortem examinations which have as yet been made in such cases, and which were performed by Mr. Curling, no trace whatever of the thyroid body could be and corring, no far as wanter or the injust say could be discovered. So far as can be ascertained, it appears probable that the thyroid body is likewise absent in the four cases which have recently come under Dr. Fagge's observation, and of which an account is given in the paper. On the other hand, in all these four cases, and in the few examples of a similar kind that have been placed on record by other observers, there have been invariably present certain soft symmetrical tumours, lying one on each side of the neck, just outside the sterno-mastoid souscle. One writer has described these tumours as venous. and they have sometimes been supposed to contain the apices and they have sometimes been supposed to contain the apiece of the langs, since a distinct respiratory nummar has been heard on associlation over them. But it is a supposed to any distinct capacit. Of the four patients will be a supposed any distinct capacit. Of the four patients who have recently been under the author's observation, one (the girl in whom the disease began at 8 years of age) is now 17 years old, and is 4 ft. 1 in. in height; another, a boy, is 8 years old, and is 2 ft. 7 jin high; a third, about 20 years old, a 2 ft. 4 in high (this is a boy or man); the remaining patient, a girl, is 12 years old, and 3 ft. 104 in. in height. The author is disposed to adopt Mr. Curling's opinion that the atrophy of the thyroid body (if this should turn out to be a constant feature in sporadie cretinism) is the cause of other phenomena of the disease; and in the concluding part of the paper an hypothesis is advanced which may, perhaps, explain the apparent contradiction which is involved in the association of this affection with wasting of the thyroid body, while the other form of cretinism is con-

nected with goître. At the same time it is thought that this hypothesis affords an explanation of certain peculiarities in the relations between endemic cretinism and goitre which have hitherto appeared to be difficult of comprehension. Goitre is endemic in many parts of England where cretinism is unknown.
Goitre is the earlier effect of the cudemic influence; cretinism shows itself when that influence has been intensified by operating on more than one generation. Hence it might be inferred that the worst cretins would invariably have very large inferred that the worst cretins would invariably have very large goitres. Such, however, is not the case; they have often no enlargement of the thyroid body. These considerations have led some observers to think that neasociation of endemic goitre with endemic cretinism is a mere sectiont. They rather appear to prove that there is a certain antagonism between the two phenomena. A large goitre may possibly have the power of protecting the individual squaint the more severe-effect of the endemic influence. The most careful investigation has failed endemic influence. The most careful investigation has raned to show, either in the air, the water, or the soil of Alpine valleys, the presence of any element which is absent where cretinism does not prevail. Hence, if one could discover any cretinism does not prevail. Hence, if one could discover any counteracting tendency, it would not be improbable that the cause of cretinism prevails much more widely than the disease theeft, although, doubtless, with an intensity varying in different localities. The author thinks that to counteract this cause in its slighter degrees may be one of the functions of the healthy thyroid body, which may thus be supposed to perform under ordinary circumstances the same office which the organ hyper-trophied to form a goltre is imagined by him to carry out in those districts where cretinism is endemic. If this be so, one can see why wasting of the thyroid body should, in England, produce a form of cretinism.

Dr. LANGDON DOWN had been very much interested by the paper; and had at present twelve cases of the class referred to under his care. In none of them was there goîtrous ancestry, and when not congenital, he connected the disease with the period of second dentition, rather than with measies, or any other ailment. In some of his patients there was presumptive evidence of parental intoxication at the time of procreation. No distinction could be drawn between sporadic cretinism and idiocy on the ground of quietness, because there existed a large class of quiescent idiots, chiefly those whom he had described

as being of the "Mongolian" type.

ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

SATURDAY, MARCH 18.

DR. DEUTIT, President, in the Chair.

Ms. Coopen gave an explanation of his patent system of sanitary road-watering. Its advantages were, that it diminished the water-cart nuisance, completely laid the dust, deodorised street refuse, and absorbed ammonia. He used forty pounds of the chlorides of calcium and sodium to 250 gallons of water; evaporation of the water was retarded, and moisture abstracted from the atmosphere; hence a great diminution of the quantity of water required. The expense is considerably less than that of mere water. The patent has been in operation in various places. The whole district of the Westminster Board of Works was watered on this principle last summer.

Mr. Liddle attention to the new Building Act, which

contained several important improvements, but was ambiguously worded. One provision of the highest importance was that the rooms should be ventilated from the ontside; another, that there should be an open space in the rear of each house of 100 square feet. Mr. Liddle contended, however, that the words "in common with others" were objectionable, that the words "in common with others" were objectionable, and ought to be "exclusively belonging to each house." The words "at all times" would, he hoped, prevent persons from a studied over these spaces, an abuse that had long existed. Rooms were to be eight feet in height, instead of seven Dr. Gibbon said that in his district the back yards were con-

tinually being built over. The surveyor thought it legal to build over yards up to the first-floor. Mr. Ross condemned the use of underground rooms as

aleeping-rooms.

The PRESIDENT said that at the West-end the servants' offices were nearly all underground, and the men-servants mostly sleep downstairs.

Mr. Liddle moved, and Mr. Lord seconded, "That a committee of the whole Association be appointed to consider the new Building Bill."

The Principles real a paper entitled "The Report of the Royal Sanitary Commission as affecting Medical Officers of Health." It was satisfactory to find in the report that none Heath. It was satisfactory to find it is report as note of the defects shown to exist are traceable to failure on the part of Medical Officers of Heath. The present law was condemned as incomplete, confused, and contradictory. The local authorities were found to be too numerous and too apathetic, and the existing central authorities under-manned and under-armed. To remedy these evils it was proposed that all conflicting jurisdictions should be abolished, and that there should be one, and only one, sanitary authority in each place. That in places where there was either a town in each piace. That in piaces water there was truter a town council, improvement commissioners, or local boards, such boards should be the authority; in all other places the board of guardians. That the boards of guardians should themselves undergo such modification as would insure their efficiency, thus securing at the same time a better system of poor-law relief, which the report acknowledged was closely connected with the subject in question. Such were the authorities the Medical Officers of Health were to have over them. Note, as to whom it was proposed to employ as Medical Officers of Health, the report recommended the Foor-law Medical Officers as specially fitted for the office. In large town, bowten, and we have the subject of the office o curing at the same time a better system of poor-law relief, authority, the report recommends that the appointments of Medical Officers of Health should be distinct from those of the unions, and that in these cases the mutual relation of the Medical Officers of Health and the Poor-law Medical Officers should be arranged by the local authorities with the approval of the central authority; that Medical Officers of Health should not be removable without the sanction of the central authority. The chief innovation in respect of the duties was that the Officer of Health should report to the central, as well as to the local, authority; and that he should inquire into the cause of death in all cases not otherwise Medically certified. Many coroners' inquests would probably be thereby rendered unnecessary.

The Commissioners proposed that forms of returns relating to health should be sent out from the central authority, to be filled up by the Medical Officer of Health, such officer being empowered to call for returns from the registrar of births and deaths, from nuisance inspectors and others, in order to make his report as complete as possible. The importance of a regis-tration of sickness was acknowledged, and it was recommended that, at first, all existing returns should be fully utilised by being forwarded to the central authority, and by being worked The Commissioners advised that inducements up by them. hould be held out to encourage the study of State Medicine in should be held out to encourage the study of State Medicine in all its aspects. The President said the paper he had read was a fair abstract of the report, made by a barrister possessing great knowledge of anniary matters. It he sight criticates, he said he wished that the Poor-law officials, from the top to the bottom, would, with the proposed new organisation, take a new name, such as department of "Public Health, Assistance, and Scatistics." The name "Poor-law" studt in the nostrika The Poor-law Medical officers should have another name-as "Civil Surgeons," "District Physicians," or the like—so as to induce the best men to seek the office. In the next place, he hoped the new arrangements would give scope for the employment, not merely of inspectors radiating from a central authority, but of the best and most energetic provincial Practitioners, many of whom had already done good work in sanitary reform.

Mr. Miranat traced the history of the Sanitary Commission from the time it was pressed upon the Government by the nand considered the report unastifactory, because the whole scope of the Commission had been changed, the metropolis had been excluded, and the men who urged the appointment of the Commission had not been asked for their information. He considered the appointment of beards of guardians as the sanitary authority quite a retrograde step. The Medical Officer of Health ought to have a district and a salary large ought also to have sen powering the production. He cought also to have sen powering given the production. The the carrying out of improvements, undeterred by the small cottage proprietors who sat on these boards and were the chief obstructors of all sanitary improvements.

The PRESIDENT asked the opinion of Dr. Hardwick (deputy coroner for West Middlessx) as to whether the suggestions of the Commissioners would not diminish the necessity for a great number of coroners' inquests.

Dr. Hardwick considered that improvements might be made in the Coroner's Court by which many inquests now held might be avoided.

MEDICAL SOCIETY OF LONDON. MONDAY, MARCH 6.

JOHN GAY, Esq., F.R.C.S., President, in the Chair.

Mr. W. F. Thevan read a paper entitled

All of the matter of the matter of stricture. All of the matter of the complaint, and recognised and treated its earliest incipiency years before it was usually detected in this country. Most Surgeons would say that, if in a given case a No. 10 catheter could be passed into the bludder, there could be no stricture; here could be passed into the bludder, there could be no stricture; here the matter of the

suca a case ough: so se treated by experian urelarroomy with out any guide. Mr. MacConnac considered that most strictures were best treated by gradual dilatation. If the Profession effected the diagnosis of stricture in its earliest stage, as indicated by Mr. Teevan, operative interference would be abolished.

Teevan, operative interference would be abounded.

Mr. Gant treated strictures by gradual dilatation, reserving exceptional cases for the use of the dilator.

exceptional cases for the use of the dilator.

Mr. DAYI looked upon the bougie à boule as a most valuable instrument, and considered it ought to be used in every case of gleet, to see if there were any stricture. Ho thought strictures

gleet, to see if there were any stricture. Ho thought strictures were best treated by forcible rupture.

Mr. J. D. Hill treated stricture by forcible rupture. He had, however, had two deaths after its use.

Mr. HENNY SATTH was strongly opposed to the foreible rupture of strictures, on account of the number of deaths which and followed that procedure. After foreible rupture the strictures always contracted again as badly as ever. He thought there was no treatment like that by gradual dilatation, because it could effect all and more than a dilator could do, and that without the slightest risk to like

WATLE-GUM POISON.—A singular death occurred between Tuesday and Dridgs last to a low, about 10 years old, where Tuesday and Dridgs last to a low, about 10 years old, where the control of the singular control of the singula

OBITUARY.

DR. PATRICK ANDERSON.

Ir is our melancholy duty to record to-day the death of Dr. Anderson, which occurred suddenly, on the 6th inst., at Castle Dr. Anderson was well known as an eminently successful Medical Practitioner in Castle Douglas and surrounding district. His great Professional talent and personal worth caused him to be much honoured, respected, and sought after by all classes of the community, by whom he will be long remembered and regretted as a kind and valued friend and adviser. He was also most favourably known to, and on friendly terms with, those in the highest ranks of his Profession in Edinburgh, as well as with his brethren at home. For some years his health has been far from good, and the fatigue and anxiety attending his Professional labours and studies have, without doubt, been too much for his age and strength, although he was able to carry on his extensive practice until quite recently. Three weeks before his death he was seized with a Three weeks before his death he was seized with a fainting fit, from the effects of which he never rallied, and on Monday morning, March 6, he expired, without any apparent suffering, after a most useful Professional career of over fitty years.

MEDICAL NEWS.

APOTHECARIES' HALL.—The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday, March 16, 1871:—

Hill, Charles Hamor, Teddington. Robey, Peter John, Newcastle-under-Lyne. Stamford, William, Swindon, Wilts.

The following gentleman also on the same day passed his First Professional Examination:—

Chilcot, James, University College.

APPOINTMENTS.

The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

Doeson, Nelson C., F.R.C.S.E.—Surgeon to the Children's Hospital, Britiol, vice T. G. Baretti, resigned, D. Corea, Churser, M.B.P. B.S. Lond., L.R.C.P. Lond., M.R.C.S. Eng., L.S.A.—Medical Officer to Rugby School, vice Robert Farquianron, M.D. Edin., resigned. ROTDS, WM. A. S., L. R.C.P.—Medical Officer to the Reading Dispensary, vice T. L. Walford, M.R.C.S., resigned.

MILITARY APPOINTMENTS.

SSTH FOOT.—Surgeon Archibald Henry France, having completed twenty years' full-pay service, to be Surgeon-Major, under the provisions of the Royal Warrant of December 37, 1870.

MEDICAL DEPARTMENT.—Assistant-Surgeon Richard Turner, M.D., from 103rd Poot, to be Staff Assistant-Surgeon, vice Walter John, deceased.

BIRTHS

BEAUMONT.—On February 1, at Judore, India, the wife of T. Beaumont, M.D., F.R.C.S.I., of a son.

Gourlay, M.D., of a son. ILES .- On March 18, at Watford, Herts, the wife of Wilson Res, M.D., of

LOVEJOV.—On March 17, at 8, Portman-street, Portman-square, W., the wife of W. H. Lovejoy, M.D., M.R.C.S. Eng., of π son.

LYNES.—On March 17, at 9, Priory-row, Coventry, the wife of Edward Lynes, M.D., of a daughter.

Mantys. -On March 21, at Clifton, the wife of Dr. Martyn, of a daughter. Sandent,—On January 27, at Lingasoogoor, Decean, the wife of J. Forbes Sargent, Assistant-Surgeon Madras Army and 5th Infantry Hyderabad Contingent, of a son

SMITH.—On March 16, at Islip, Oxon, the wife of Walter Wyke Smith, L.R.C.P., M.R.C.S., of a son,

MARRIAGES.

DAVOREN-WEIGHT.—On March 14, at 88. Faul's, Upper Norwood, John Lucius Davoren, B.A., M.B., T.C.D., of Wandsworth, son of the late Rev. A. Davoren, rector of Millown, Mall Bay, county Clare, to Matianne Havard, eider daughter of the late Samuel Wright, M.D., Professor of Materia Medica, queen's College, Birmingham,

DTRE—MACPHERSON.—On March 15, at St. Andrews Cathedral, Inverses N.B., Henry Julian Dyer, Eeq., late of Blackbeath, to Anna Deno daughter of the late bonald Macpherson, Surgeon 64th Regiment.

Gallaohen—Caraval.—On January 25, at Lima, Peru, Juan P. Gallagher, eldest son of John Gallagher, M.D., of Lims, to Petronila, youngest daughter of the late Don José Mansueto Canaval.

Handoock, —OLIVER.—On March 16, at Rothwell Church, by the Rev. Robt. Handoock, assisted by the Rev. Wm. Handoock, and Kev. Chas. Handoock, all brothers of the briegeroum, George Handoock, M. R.C.S. E., of Leeds, to Elizabeth, only daughter of Thos. Oliver, Esq., of Haigh House, Rothwell, near Leed.

MONN, MORNWEL, BERT LEVIL.

BIRM—GLAS.—On March 18, at the Church of St. Philip and St. James,
Leekhampton, Henry Sissen-we Shaw, M.R.C.S.E., etc., of Louth, Lincolnabire, eddect surviving son of Dairynphs Shaw, Eaq., of Caloxiba,
attornsy-at-law, to Emily Catherine Septima, youngest daughter of
John Gels, Eq., of Caloxib, The Fark, Cathenham.

Austin, W., M.D., Inspector-General of Hospitals, and formerly of the 57th Regiment, at Sherbrooke, Canada, on February 24, aged 81. BEAUGHT.—On February 3, at Judore, India, the infant son of T. Beaumont, M.D., F.R.C.S.I.

COLTHURST, HABRILLA, SARAH, wife of James Bunter Colthurst, M. B.C.S. E., at Tyr Phil, Glamorganshive, on March 17, aged 33.

DAVIDSON, JAMET PRENTICE, widow of the late Thomas Davidson, Surgeon H.E.I.C.S., at 15, Norfolk-square, on March 18. DIXON, MARGARET CHRISTIAN, the wife of Edward Dixon, Surgeon-Major H.M. Madras 4th Light Cavalry, on March 17.

ENGLARD, ALAN, infant son of Dr. England, Winchester, on March 14, aged 3 days.

FOX, CONRAD, son of the late Robert FOX, Surgeon, Godmanchester, at the Victoria Hotel, Euston-aguare, on March 14, in the 45th year of his age: GRARTHAM, JOHN THOMAS, M.R.C.S., at Crayford, Kent, on March 15,

HAYES, HOTCHEIN, M.D., late of Applecross, and J.P. for the county of Ross, youngest son of the late Henry Haynes, Esq., Grove House, Whittlesey, Cambridgeshire, at Woodend Cottage, Haselhead, Aberdeen, on March 15, aged 49.

LEARMOUTH, JOHN LIVINGSTONE, at 11, Gloncester-gardens, Hyde-park, W., on March 16, aged 59.

M'CLATCHIE, ARCHIBALD, Surgeon, Royal Navy, at Bruges, Belgium, on March 13, aged 53. Millar, Saran, widow of Samuel Millar, M.D., late of Guilford-street, on March 19.

on march 19.

Moscar, William J., M.R.C.S.E. and L.S.A. (of 17, Edgware-road,
London, W.), at North Parade, Bath, of phthists, aged 27. He had been
apparently at the commencement of a prosperous career, but was both
resigned and prepared for the fatal result.

resuguest ann preparent to the Brait Femilia.

Beyrone-Papert, A syst, the deeply-limented wife of George Wart Royslow-Papert, A syst, the deeply-limented to read to L. Landston-Papert, H. Kraitspiton, with W. J. Landston-William Warten Walt, M. Kraitspiton, with W. on March 16, after a short lineau.

WHILE, WILLIAM HINSY, second son of William Walter Weld, Suppron-Major, h. P. Army McGind Staff, at his father's residence, Rochester, on March 13, aged 22.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession.

Manage, and the only of occurring the state of the state of the state of the Askring District. Candidates must have the qualifications prescribed by the General Orders of the Poer-law Board. Applications and testimonials to Gro. Wimp. Eq., Junior Clerk to the Guardians, on or before April 17. BIMHEGHAE GENERAL DISPENSARY.—Besident Physician and Secretary; must have a Medical qualification, and be registered. Applications and testimonials to Dr. G. F. de is Cour, on or before March 30.

LIECOLN COUNTY HOSPITAL.—House-Surgeon and Apothecary; must be M.B.C.S. E. and L.S.A. Applications and testimonials to the Secretary, or or before April 10.

LECOLE OFFICE AND PRIVATALY—House-Surgeon; must be M.R.C.S. Eng., and be also either L.S.A. or L.R.C.P.L. Applications and testimosisals to the Secretary, on or before April 10. Election on the 19th. LYRAGOOL DIFFERENTIALE—TWO Assistant Resident House-Surgeons are titled and testimosis of the property of the Company of the Compan

LIVERPOOL LADIES' CHARITY AND LYING-IN HOSPITAL.—House-Surgeon; must be duly qualified. Applications and testimonials to the Hon. Sec., at the Hospital, Mytthe-street, Liverpool, on or before March 31.

at the Hospital, Mytue-stree, Liverpoot, on to vertor marca 31.

Omessing Union.—Medical Officer for the Fourth District. Candidates
must have the qualifications preserviced by the General Orders of the
Poor-law Board. Applications and testimomials to Mr. W. Parr, Clerk,
Ornskirk, on or before April 5.

Parisit OF St. Mary Abbotts, Kreshnotes, W.—Medical Officer of Health. Applications and testimonials to the Clerk of the Vestry, on or before April 8.

OC DESIGN AND THE STREET OF TH

March 31. ROCHDALE INFIRMARY AND DISPENSABLY.—Resident Medical Officer; must be duly qualified and registered. Applications and testimonials to the Hon. Sec., from whom any further information may be obtained.

BOYAL LONDON OPHTHALMIC HOSPITAL.—Curstor and Librarian; must be n good dissector and microscopiet. Further particulars may be obtained from the Secretary, at the Institution, Moorfields, E.C.

ROYAL SURREY COUNTY HOSPITAL.—Assistant Honorary Medical Officer.
Applications to the Rev. C. R. Dallas, Farncombe Rectory, Godalming, on or before April 27.

toral United Hospital, Bath.—Honorary Physician; must be a Graduate of a British University, and be a Fellow or Member of a Col-lege of Physicians. Applications and testimonials to the Committee, on or before April 10.

SCARSONOUGH DISPENSARY AND ACCIDENT HOSPITAL.—House-Surgeon and Secretary; must be duly qualified and registered. Applications and tes-timonials to the House-Surgeon, under cover to the Medical staff, on or before April 4.

SRAMEN'S HOSPITAL (LATE ** DREADNOUGHT**), GREENWICH. — Hou Physician. Applications and testimonials to Mr. Kemball Cook, Hou Governor and Secretary.

Governor and Scoretary.

SWAREA HOSTITAL.—Resident Medical Officer; must have both Medical and Surgical qualifications. Applications and testimonials to the Secretary, on or before April 12. Election on the 30th. The duties will commence on May 1.

VICTORIA HOSPITAL FOR SICE CHILDREN, GOURH HOUSE, QUEEN'S-ROAD WEST, CHILDRE.—HONORARY Assistant-Physician; must be a graduate in Medicine of a British University, and not practising pharmacy. Applications and testimonials to the Secretary, on or before the 20th inst. WEST LOSDON HOSPITAL.—Junior Surgeon; must be a Fellow of one of the Royal Colleges of Surgeons of London, Edinburgh, or Dublin. Ap-plications and testimonials to the Secretary, on or before April 19.

WEST NORFOLK AND LYNN HOSPITAL.—House-Surgeon; must have both Medical and Surgical qualifications. Applications and testimonials to the Chairman of the Weekly Board, on or before March 25. Election on

POOR-LAW MEDICAL SERVICE.

*.º The area of each district is stated in acres. The population is maputed according to the last census.

computed according to the last census.

RESIGNATIONS.

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RESIGNATIONS.

President Union.—M. Resignation of the Coloration of t

APPOINTMENTS.

Barantaple Union.—Charles Johnston, M.B.C.S. Eng., L.S.A., to the Fifth District. Fifth District, ... Philip Cowen, M.R.C.S.E., L.S.A., Assistant Resident Medical Officer for the Workhouse.

Nauk Union. David E. Griffitha, L.R.C.P. Edin., L.F.P. and S. Giasq., L.M., to the Britonterry District.

L.M., to the Britonterry District.

Name of the Comment of th

November Chief, — Renry Ward, M.R.C.S. Eng., L.S.A., to the St. Martin's Strand Union.—Sidney E. Clarke, M.R.C.S.E., L.S.A., to the St. Martin's

THE LEVÉE.-At the levée, held on Wednesday at St. James's Palace by his Royal Highness the Prince of Wales, on James's Palace by his keyal highness the Frince of Whees, on behalf of her Majesty, the following presentations were made: —Surgeon-Major A. G. Elkington, by the Field-Marshal Commanding in-Chief, Deputy Inspector General of Hospitals Commanding-in-Chief. Deputy Inspector-teneral of Liospitals Dr. C. A. Gordon, C.B., on return from special service, by the Director-General of the Army Medical Department. Assistant-Surgeon C. E. M. Shaw, on return from the Red River Expe-Surgoon C. E. M. Shaw, on return from the Red River Expedition, by the Director-General of the Army Medical Depich. Mr. Henry Walesideled, Surgeon, Bombay Army, by the Secretary of State. Six Thomas Watson, by the Lord Chamberlain. The following gentlemen attended the levée:—Six William Fergusson, Six Charles Locock, Six Henry Thomson. Drs. V. Bell, F. Bonney, Brewer, M.P., Cape, T. K. Chambern, L. Down, Gresan, Day-Gos, Hocker, C.B., W. Fols, F.R.S., G. Rees, K. Read, and Staff-Surgeon L. Kidd; Mr. D. Dal-rymple, Mr. W. H. Propert.

rymple, Mr. W. H. Propert.

Amonost the guests who were invited to witness the
marriage of the Firmess Louise with the Marquis of Lorne,
marriage of the Firmess Louise with the Marquis of Lorne,
unfortunately, unable to be present. Dr. Hoffmiester, Pr.
Fairbank, Dr. Ellison, Dr. Marshall, and Dr. Robertson, also
at oats in the Queen's Gallery.
PROPESSOR LISTER, F.H.S., has been elected an
Homoracy Member of the Royal Medical Society, Edinburgh.

THE Swiss Government has introduced into the Grand Council of the Canton-de-Vaud a Bill making it unlawful for "any persons" under 14 years of age to smoke tobacco.

THE Marylebone Guardians have adopted the plan of

offering to vaccinate all casuals, and, although no compulsion is used, the step has been attended with such success that other parishes are following the example.

pariances are following the example.

THE Goverstry Advertiser says, "We are glad to learn that the small-pox is abating at Lianfyllin; there are but very few case now, and those of a very mild form."

A CORONER'S JURY at Wisbeach, on Friday week, found

a vertict of manslaughter against a publican who had continued to supply rum to a drunken man, thereby causing his death. If has been decided, on the suggestion of Dr. Playfair, to extend the provisions of Mr. Charley's Bill against baby farming to Scotland.

CATTLE fairs in the provinces of Hainault, Western Flanders, and Namur have been prohibited, in consequence of the cattle plague.

AT the London Hospital the patients are again allowed to receive their friends. All now in the Hospital have been vaccinated, and those subsequently admitted will for the present

be vaccinated day by day.

AT the last meeting of a Board of Guardians, savs the Worcestershire Chronicle, a resolution was passed to mix with the port wine intended for the patients one ounce of bark to the port wine missing of the patients one cunce of bark to one gallon of wine. The reason for this was because it was found that the wine ordered for the patients never reached them, and the mixture of the bark would make the wine un-

MR H. DENNY, for forty-five years the Curator of the Leeds Philosophical Society, died on the 7th inst., at the age of 68. Mr. Denny's remarkable book on "The Parasites Infesting the Bodies of Animals and Birds," and his genial and over earnest desire to serve the cause of science in delicate attention shown to men of science who have visited the Museum of the Leeds Philosophical Society, demand a passing tribute.

17 was stated, at the Artisans' and Labourers' Dwellings

It was stated, at the Artisans and Labourters Dweinings Company's annual meeting, that during the year 100 houses of such excellent drainage and ventilation had been exceted in the metropolis that the immates have enjoyed perfect immunity from small-pox. The houses are fitted with the patent dry ash closets-a system which is being adopted in various parts of the

country with complete success

THE experiment of public-houses without the drink will shortly be tried in Bradford. Many similar institutions, bearing the name of "British Workman Public-houses," are now established in Leeds, where they are prospering and rapidly increasing in numbers and importance. The object is to supply working-men with the opportunity of passing their evenings in a social and comfortable way without the ruinous influence of drink and the temptations to which it too commonly leads. Sir Titus Salt, Bart., and other gentlemen, have already promised their support to the movement.

A Worcester paper relates the following: ""A Doctor recently possessed a pet magpie, which constantly hearing his recently possessed a pet magpie, which constantly hearing his master sadvice, gratin patients repeat, in answer to the solicitous inquiries of a valet, Ah, Heary, I'm very ill: learned the phrase so as to speak it with surprising distinctnees. The mag-pie escaped to the neighbouring rural district, and was shot by a pessant. The latter ant to pick up his prise; the dying bird opened his eyes, and said, looking in p dolefully. Ah, Heary, I'm very ill! 'I'm pessant a same was Heary."

NAVAL MEDICAL SERVICE .- Three of the candidates who passed the test at the recent examination of the Army Medical Service have been allowed to enter the navy without undergoing further examination, and will proceed to Netley Hospital for a course of study.

THE CARRER OF AMERICAN DENTISTS .- A dentist in Philadelphia has traced out the career of 1000 dentists, with these results:—163 died before they reached middle life, 643 attained fair success, 57 made fortunes, 27 died from intemperance, 96 failed entirely, and 3 committed suicide.—Boston Medical and Surgical Journal, February.

PARIS REGISTRATION RETURNS .- The return of deaths in Paris for the week ending March 17 gives 2676 as the total number of deaths, 399 of these occurring among the troops of the line and Garde Mobile. Small-pox had diminished to 98 cases, and there were 229 deaths from typhoid fever.

CONVICTION FOR CRIMINAL ABORTION IN NEW YORK. -An account is given in the New York Medical Record, Febranzy 15, of the conviction of one Miohael Wolff, a noted abortionist. The judge, in sentencing the prisoner, stated—
"The people may rest assured that the District Attorney, the Recorder, and myself, will give on all proper possions. Power and the people may be a supported by the property of the people of th "The people may rest assured that the Libertos Attorney, are Recorder, and myself, will give, on all proper occasions, every assistance to crush out this monastrons crime, and to banish from our midst these traffickers in human life. In one word, from our must those transfers in human atc. In one word, the authorities have declared war to the bitter end against the fraternity which you to-day so guiltily represent. Let every professional abortionist, male or female, rich or poor, in this city take warning; for, on conviction, their fate shall be the same as yours—namely, confinement in the State prison for seven years—the longest term allowed under the statute." "Thus endeth," says the Record, "the first case of conviction for many a long year; and may we not hope, in the interests of future generations of innocents, that it may be the com-mencement of a rule of terror with the numberless abortionwho have heretofore carried on their trade with a boldness that has only been equalled by its wickedness." A Bill is about to be introduced into the Legislature for the more adv-

quate suppression and punishment of the crime.

MR. CLAY has been elected Assistant-Dispenser at the General Hospital, Birmingham.

THE Ramsgate people are protecting themselves, and

driving off small-pox patients, by what they call Precautional Notices.

Miss Berryman, of Stoke, Devon, who died a few days since, has, says the Western News, bequeathed upwards of £30,000 to public institutions in Devonshire.

THE BRIGHTON RAILWAY AND INFECTIOUS DISEASES. Au order has been issued to the station masters and guards of the Brightou Railway, by direction of the manager, to take every precaution to prevent persons with small-pox and other contagious diseases from travelling in the trains; and station masters are to give notice to the cab proprietors at their stations that they, in like manner, must not allow their cabs to be need

GUY'S HOSPITAL.-The Annual Concert (in aid of the Samaritan Fund), under the patronage of the Treasurer and the Governors, will be given on Wednesday and Thursday, March 29 and 30, in the Governors Court-room. The followaggenthemen will take part:—A. Buchanan, A. Carter, F. H. Clarke, W. Fager, W. P. Mallam, W. G. Nash, H. G. Peacock, J. Rees, H. N. Smith, T. H. Stephens, C. S. Ticchurst, E. Tipple, and A. F. Trenerry.

DEATH FROM AN OVERDOSE OF OPIUM .- At Salford, an inquest was held last week touching the death of William Barlow, 17 days old, the child of John Barlow, labourer, On Sunday, the infant became unwell 20) Clemmson-street. On Sunary, the inrast became unwell, and continued so nntil Monday, when his mother administered three drops of laudanum. For a time he appeared to be benefited, but subsequently relapsed, and died the same uight. Verdict—"Died from the effects of an overdose of laudanum."

SEWAGE AT WORING .- The Government Inspector's attention ought to be called to a state of things in the village of Woking. The drainage from the convict prison there, and or woring. Ine grainage from the convict prison there, and from the gaworks, is allowed to flow into au open meadow. Fever has been prevalent in the neighborshood for the last two years, and small-pox is now added. At the neighborring village of Horsell, a school of 200 children has been closed in As usual, it seems impossible to fix on anyone consequence. the responsibility for abating the nuisance.

A CONSTANT WATER-SUPPLY,-The Government Bill. just brought into the House of Commons, will compel a constant supply of water from the London companies, on the application of local authorities, or by order of a Secretary of State. The change will, most likely, be gradually introduced, but there are some energetic local authorities in the metropolis who wish to have it instantly made, and they will be supported by most Professional men. We have good reason to believe e Government will pass the Bill at the earliest possible opportunity.

BABY-PARMING AT MANCHESTER .- At a further investigation iuto this case, on Monday, at the City Police-court, the Medical evidence showed that traces of opium were discovered in the stomach of the child whose body was found in the house occupied by the prisoners, Frances Rogers and Edward James, and that the surviving children were, when the case was brought to light, suffering from the effects of want of food. Among the witnesses examined were two young mothers, who had entrusted their children to the keeping of the female prisoner. As no case was made out against James, he was discharged, but Rogers was remanded.

AN AMENDE HONORABLE.-The Medical Society of AN AMERIE HONORABLE.—Inc medicin 1901-197 New York, at its sixty-fifth anniversary meeting, passed the following resolution:—"Whereas, there appears in the published Transactions of this Society for 1863 an article, entitled, Effects of the Meteorological Influences on Health, by Dr. Thoms: and whereas this article is in large part copied, word for word, from Parkes' Manual of Hygiene, second edition, for word, from Parkes 'Manual of Hygiene,' second edition, without credit given or marks of quotation need, and is therefore a plagiarism—Be it received, That this Society owes it to Dr. Parkes, as well as to itself, to aplongise for this appropriation of his labour and language without credit; That a copy of this presemble and resolution, authenticated by the copy of the presemble and resolution, authenticated by the copy of the presemble and resolution of the Society, be forwarded to Dr. President and Societaries of the Society, be forwarded to Dr. President and Societaries of the Society, be attended to Dr. President and Societaries of the Society, be forwarded to Dr. President and Societaries of the Society, be attended to Dr. President and Societaries of the Society, be attended to Dr. President and Societaries of the Society, be attended to Dr. President and Societaries of the Society of strongly approving of the resolution, comments upon the poor excuse offered by the appropriator, that a preface, giving full credit to Dr. Parkes, was inadvertently omitted. The Society, it says, " passed a vote, accepting the excuse of Dr. Thoms as to intention of wrong, more for the sake of charity to him than of justice to the spirit of the resolution."

WEST KENT MEDICO-CHIRURGICAL SOCIETY .- At the meeting on Friday, March 10 (Dr. Clapton, F.R.C.P., President, in the chair), Dr. H. Charlton Bastian, F.R.S., read a paper on "The Mode of Origin of Bacteria, and on the Bearings of this Question on the Science of Medicine." After alluding to our imperfect knowledge concerning the mode of origin of many of the lowest kinds of organisms, he discussed the various views which are at present held concerning the nature and origin of which are at present nead concerning the hatter and origin or bacteria. Their modes of reproduction and origin were spoken of under the following heads:—1. Homogenesis—e, Direct; b, Indirect (Hallier). 2. Heterogenesis. 3. Archebiosis. The question of their origin de novo (archebiosis) was intimately question of tent origin at archemosas) was intimasely associated with another problem—as to the cause of fermenta-tion and putrefaction. The evidence on this subject was very decisive. The author then alloade to the bearings of the facts constructing the heteregenetic origin of bacteria upon many problems in Reddence, and briefly indicated how much what he considered the untenable "germ theory" of discase was dependent upon doctrines of fermentation, such as had been advocated by Pasteur.

enter the house, and expressed an opinion that the coroner could order the gates to be broken down if he thought proper could order the gains to be process nown it in a mongue proper to the control of the Poor-law Board be requested to remove Drs. Ellis and Hill from their situations as Medical Officers of the Workhouse, on the ground of their incapacity to determine the causes of de of a large number of their patients, as is evidenced by the return of coroners' inquests laid before the Board, and other matters." The Rev. Mr. Arrowsmith seconded the motion. The motion was lost by a majority of nine to six.

QUERETT MICROSCOPICAL CLUB.—The annual con-rereazione of this Club took place at University College on Friday evening, and was very largely attended, as it usually is. The objects provided by the Club for the entertainment of 18. In objects provided by the Unit for the entertainment of its guests comprised all the optical novelties of the year, and the members as well as the leading opticians did all in their power to exhibit objects worthy of the position the Club holds in the encouragement of microscopical science. Photography in the encouragement of microscopical science. Londography was on this, as at the last annual soirie, well represented. A large and interesting series of photographs of Indian temples and scenery was kindly lent by the India Office; also frames of photographs were lent by Mr. J. Van Voorst, Mr. J. Ohn Foster, Mr. E. Kiddle, and Mr. A. Shapout. Mr. Apps exhibited at frequent intervals the marvellous electrical effe produced by means of his well-known induction coil. In the midst of so many attractions it is difficult to single out for must of so many attractions it is difficult to single out for especial mention any one feature of interest, but that which seemed possessed, at this time, of surpassed interest was an exhibition on the screen by the oxy-hydrogen light of a series of transparent photographs illustrative of the scenery of the late lamentable Franco-Prussian war, contributed by the London Stereoscopie Company, with an explanatory lecture by Mr. James Martin, which commanded crowded audiences all the evening.

A New Danger.—The researches of Dr. Spencer Cobbold on the entozoa that arise from sewage irrigation are Cobbold on the entozoa taat arise from sewage irrigation are calculated to throw us into still deeper perplexity as to the course which we should adopt in dealing with the sewage question. At present, irrigation seems to be the most profitable and the most practicable; but a new danger, according to Dr. Cobbold, threatens us from this question—viz., the introduction into the human system of countless parasites and entozoa through the human system or countiess parasites and energia tirrings the medium of cattle fed upon sewage irrigation grass. The worst of it is that cattle which thus acts as "bearers" of these abomin-able interlopers soldom show signs of the disease in themselves, as they appear to have the capability of resisting the effects of the presence of the parasite, except when the sufferers are young, as in the case of calves. Again, so little outward sign of disease does the meat show, that butchers are perfectly un-conscious of it; but Dr. Cobbold has microscopically demonerrated the presence of thousands of entones in port which to the ore appassed perfectly healthy. It is his deliberate opinion that there are now in this country thousands of cattle which are thoroughly measuled, and which cannot be said to be safe as food for man. It may be remarked, as a rule, that pigs do not feed on the product of fields which have been irrigated by sewage.

NOTES, QUERIES, AND REPLIES,

Be that questioneth much shall learn much .- Bacon.

The review of Dr. Tibbits's translation of Duchenne is in the press, and will be published shortly.

Dr. J. Foster Jenkins .- Your letter, with enclosure, received, with thanks. Cocos and Milk .- Messrs. Dunn and Hewett, of Pentonville, have sent us a sample of their admirable compound of cocoa with preserved milk, which comes as near perfection as possible. It will be most useful for travellers, tourists, men at chambers, and the sick-room generally.

A .- Inquire at any good Medical library for the pamphlets of Dr. Rowley. It was asserted that not only did vaccinated people beliew like bulls, and have patches of cow's-hair on their backs, but that their cheek-bones assumed an ox-like shape. The fact was, that one vaccinated scrofulous

child had enlargement of one upper jaw-bone.

G. B.—There is a world of humbug in the phrase "electricity is life." No doubt life is accompanied with the evolution of a certain quantity of electricity, as it is of heat, motion, and other manifestations of force; but to say that heat, or electricity, or movement is life, is ridiculous. Some heat artificially applied, and some electricity artificially applied, may, in some cases, foster the actions of life and do good; but when the vital forces and power of growth are decayed, they can no more be restored by heat and electricity than they can by Medea's kettle. What is true of life and health, as a whole, is true of every function, including that important one which gives G. B. so much anxiety. Any well-informed Physician or Surgeon would help G. B. to recover health, spirits, and blood and vigour; without these, galvanic apparatus are a mere quackery and sham, and G. B. (if his brain is not so feeble as some other parts are alleged to be) will not let his pocket be drained on the faith of plausible advertisements.

REVACCINATION FOR ADULTS.

TO THE SOUTH ACCURATION OF ADDITION OF ADD

The Mesers, Letts have favoured us with samples of a capital ink-holding pen, by means of which a large surface of paper can be covered with writing without the necessity of a fresh dip. But it is a singular fact, that with people who write much, the dipping the pen into the inkstand es an involuntary automatic act, occurring at rhythmical periods, or during certain pauses in the train of thought, without any relation to the necessity for more ink. Thus, in beginning a new sentence, or in working out a train of thought, one man will bite his nails, another scratch his head, and a third dip his pen repeatedly and mechanically, so that unless the inkstand be covered up, the full benefit of the Mesers. Letta's invention will not be felt. It will be a good thing for persons writing under great pressure of time. We have to thank the same firm for a lithographed fac-simils of a balloon letter from Paris, which our readers should give to their children as a memento of the late war. The Messrs. Letts's publishing office is at 8, Royal Exchange.

Joseph E.-We can only say that Pulvermacher's chains are good samples of constant current batteries. Whether they will do good in your case is open to question. We know nothing of the individual to whom you refer, except that he advertises much.

M.R.C.S., etc.-Medical attendances "is a necessary," and, therefore, though under age, he is liable.

PUBLIC HEALTH.

To THE SETTIO BY THE SETTIO OF THE SETTION OF THE S

T. B., Barnet.—The charge appears to us to be perfectly reasonable. Inquirer .- Akenside was a Doctor of Medicine.

Lex.-In Weightman's " Laws Regulating the Medical Profession." A. N.-The deed should be registered.

Beta .- In the Philosophical Transactions.

Mr. C. L., Furnisal's-inn.-The case is recorded in Mr. Samuel Cooper's " Surgical Dictionary."

stor.—The case came before Mr. Aspinal, the borough coroner for Liverpool. The precise verdict was-" Died from pysemia, consequent upon being vaccinated whilst suffering from diabetes.

M. D., Stockwell.—Messrs. Wilde applied to Mr. Knox, at Marlborough-street, on Thursday, and obtained a summons against the notorious quack you mention, for distributing his obscene bills, styling himself a Member of the Royal College of Surgeons of England. The other person in your neighbourhood will shortly receive similar attentions from Messrs, Wilde.

VACCINATION IN SCOTLAND.

VACCUATION IS SOUTHAND.

TO THE ROTTOR OF THE RESIDENCE THESE AND GARFITE BOARD TO THE ROTTOR OF THE RESIDENCE THESE AND GARFITE AND GARFITE BOARD TO THE ROTTOR OF THE RESIDENCE THE SEAR OF THE BOARD OF THE PROPERTY OF THE

Your giving a reply in the next number of your valuable journal will like I am, &c., LOTAL A LA MOET.

Tour gyung a reply in the rest number of your valuates journal win oblige I am, &c. LOVAL A LA MOST. March D. P.S.—I shall leave it to your discretion to publish the circular, as it shows what precautions the Scotch are adopting to ward off an epidemic of small-pox. [Copy.]

"Public Health (Scotland) Act, 1867.—No. 1, 1871. "Vaccination.

"Board of Supervision, Edinburgh, February 23, 1871.
"Sm.—I am directed by the Board of Supervision to call the special tention of the local authority to the 57th Section of the Public Health

attention of the local authority to the 5rth Section of the Public Heath Art. Ty that amonatom the local authority are authorised to defray the cost of vaccinating all each persons as to them may seen expedient, other than papers, or the children of papers, or defaulters under Section 15 papers, and defraulters reveal upon the parcelaid Board; but that Board cannot legally defray out of the pore-relate the cost of vaccinating and papers, and defraulters reveal upon the parcelaid Board; but that Board cannot legally defray out of the pore-relate the cost of vaccinating all persons, except those when the parcelaid Board; but that Board cannot legally defray out of the assessment levied in terms of that Act the cost of vaccinating all persons, except those when the parcelaid Board; try to apply the provisions of the maximum reterved to.

"The existence, for some time past, of small-pox in London and clearly and the state of the st

for moditant, nas muon two reasons.

"I, The the first place, that everyone should make sure that he is not mittaken in supposing himself to have been well vaccinated in infarcy. In the control of the population, among whom chiefly the disease is likely to appear in the first instance.

In the control of the control of the population, among whom chiefly the disease is likely to appear in the first instance.

In the control of the control of the population of the population among whom chiefly the disease is likely to appear in the first instance.

"4. That infants should be vaccinated a few weeks, or even months,

earlier than usual.

With regard to vaccination in infancy, and the revaccination of adults,
Wit Simon, the Medical Officer of the Privy Council, makes the following

Mr. Simon, the Medical Officer of the Prity Counts, makes use zours—agreements——makes—makes

Total.

Males. Females.

afterwards repeated; and so perfect is the protestion, that though the nurses live in the closest and most constant attendance on small-port to the closest and most constant attendance on small-port to provide the constant of the constant

" To the Sanitary Inspector."

*. The Surgeon should have written instructions from the local authority otherwise he may be assured he will get no pay.

COMMUNICATIONS have been received from

BOOKS RECEIVED-

BOOKS RECEIVED—
Letters in Vaccination, by Dr. W. Woodward, Worcester—A fished of Celtres and Vaccination, by Dr. W. Woodward, Worcester—A fished of Mandado Alexander of Madwiney—Hawbard's Machina and Rampina Examination, inscribers—Report of University Colleys, London—Report of Examination (Inscriber—Report of University Colleys, London—Report of Exal Remarks upon the Treatment of Brythillite Disseas—Sevenge Fringation; a Lecture by W. Rifogo, Read, V. C.—Reinland, Abstract of the College of Mandado (College of College of College of Mandado (College of Manda PERIODICALS AND NEWSPAPERS RECEIVED-

Aberdeen Free Frees-Medical Press and Circular-New York Medical Journal-American Journal of Obstetries-Medical Freedom, No. 7—Nature-Pharmsceutical Journal-Gasette Hebdomadaire-The Melbourne Argue-Aris's Birmingham Gasette-Croydon Advertiser.

APPOINTMENTS FOR THE WEEK.

March 25. Saturday (this day).

Operations at St. Bartholomew's, 14 p.m.; St. Thomas's, 94 a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 3 p.m.; Hospital for Women, 94 a.m.; Royal London Ophthalmic, 11 a.m.
Royal Liveriturios, 3 p.m. Mr. O'Nell, "Spirit of the Age."

Operations at the Metropolitan Free Hospital, 2 p. m.; R. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Fuler's Hospital for Stone, Muscoule Section 7 p. m.; St. Fuler's Hospital for Stone, Muscoule Section 7 or Lonzon, 8 p. m. Dr. Andrew Cale Williams of Stone, Muscoule Section 7 or Lonzon, 8 p. m. Dr. Andrew Cale will marked "Stone Cases of Pertryphilits," and also exhibit "A Case of Pertropolital" for the Case of Pertropolital for the Capendia of the Stone for the Case of the Cale of Excision of the Stone for the Case of the Case of the Stone for the Capendia of the Case of 27. Monday.

28. Tuesday.

Operations at Guy", i. jp. m.; Westmanner, 2 p. m.; Nethenal Orthopselle, Great Pertain-drevle, 2 p. m.; Boyal Free, 2 p. m.; isoyal Lordon Ophthalmin, il a.m.; 8 p.m. Meeting. Boyal, Mangala and Charles, 1 p. m.; Meeting. Boyal, Mangala and Churtanata, Societr, 6 p. m.; Deputy Imprecious Boyal, Mangala and Churtanata, Societr, 6 p. m.; Deputy Imprecious and Surgical Operations in Time of War."

29. Wednesday.

Operations at University College Hospital, 3 p.m.; St. Mary's, 1½ p.m.; Middlesex, 1 p.m.; London, 2 p.m.; St. Bartholomew's, 1½ p.m.; Great Northern, 2 p.m.; St. Thomas'a, 1½ p.m.; Samaritan, 2.50 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; Eoyal London Ophthalmic,

11 s.m. BOYAL COLLEGE OF PHYSICIANS, 5 p.m. Lumleian Lectures—Dr. West, "On some Disorders of the Nervous System in Califondod." SOCIETY OF AIRS, 8 p.m. Meetings.

30. Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmie, 1 p.m.; Royal Orthopredie, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmie, 11 a.m. Royal London Ophthalmie, 11 a.m. Royal London Ophthalmie, 15 a.m. Discoveries."

31. Friday.

Operations at Westminster Opticalisms, 19 p.m.; Central London Oph-thalmic, 3 p.m.; Eoral London Ophthalmic, 11 a.m.; South London Borta, Cottakes to P Prescians, 5 p.m. Lumielan Lecture—T.P. west, "On some Disorders of the Nerrous System in Childhood." EORAL LOSARTORY, 9 p.m. Prof. Max Möller, "Solar Myths."

VITAL STATISTICS OF LONDON. Week ending Saturday, March 18, 1870. BIRTHS.

Births of Boys, 1150; Girls, 1147; Total, 2297. Average of 10 corresponding weeks, 1860-69, 2148-5. DEATHS.

Average of the Average correction of period	he ten year ected to inc	186 Team	0-69 ed po	pulatio	m :	753	8	742	14	95°6
DEATH	S IN SU	B-1	DIS	FRIC	TS	FRO	м	PIDI	EMIC	8.
	Popula- tion, 1961.	Small-pox.	Menales.	Searlet Fever.	Diphtheria.	Whooping- cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhou.
	458125 618210	20	4 2	11	1 2	15		1 8	17	1 3
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	571158 778175	51	6	10	***	15	1 6	8	8	1
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Total	., 2903969	195	13	53	3	85	10	16	17	9

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lean temperature								41.7
lighest point of thermometer								59.4*
owest point of thermometer								29.9°
ean dew-point temperature								36'4"
eneral direction of wind ,								Variable.
hole amount of rain in the w	ree	k.						0.98 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, March 18, 1870, in the following large Towns:---

	ion in 1871.*	Acre.	during far. 18.	der.	Tem of A	pera ir (F		Temp. of Air (Cent.)	Rai	
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A. (1871.)	Birtha Ragistered the week ending h	Deaths Registered the week ending M	Highest during the Week.	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3239449	411		1576	50-4	28'9	41.7	5199	0.98	1:47
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Norwich	81787	10.8			99.0	201.0	41'0	6:00	0:47	1:19
Bristol	173364	8710		81		***				
Wolverhampton	74438	22.0			55.2		39.5	6'17	0.35	
Birmingham	378574	48:2			55.0			4:99	64.623,	
Leicester	101367		74	80	57.2	39.9	40.8	4:55 5:00	0.65	1.62
Nottingham	90490						41'0	5.00		
Liverpool	526232				55.9		41.1		0.20	
Manchester	379140					100		3 28	0148	****
Salford	123551	23%			57.6		37-9	4'11	0.49	
Bradford	149030				54:0			4:77	0:43	
Leeds	20108	12.3					40'6	2.53	0.99	
Sheffield	255247	111			56.0			4:11	0.45	
Hull	135195	381			01.0	89.n	30 4		0 40	1.10
Sunderland	103037	951			55.0	94.6	97-7	8:17	0.48	1-92
Newcastle-on-Tyne	130993	4016					12'8			0.76
Edinburgh	477027	9412			51.5		36.6		0.51	
Glasgow	322321	33 1	177		621		42.4	5:78		2.34
Dublin (City, etc.+) Total of 20 Towns	222227	00 1	144	100	04 6	80 4		010	1000	200
in United Kingd'm		3414	5190	3606	63 1	19-9	4014	4:69	0.88	1.40
Paris-Week ending Mar. 17 Berlin-Week end	1888843	96		2576		***				***
ing Mar. 11 Vienna-Week end	800000	51								***
ing Mar. 11	622081	68		533		١	47:5	6:43	1	

and the lowest was 29 10 in. on Thursday mornis

and the lowest was 20 10 in. on Thursday morning.

"Ave.a.—The population of Ottler and Boroughe in 1870 is estimated on the assemption that the increase sizes 1881 has been at the same annual rate as between the consumes 1881 and 1881; at this distant previous contracts and the consumer 1881 and 1881; at this distant previous contracts to the consumer 1881 and 1881; at this distant previous contracts are considered to the contract of the individual probability of the contract of the contract of the individual probability of the contract of the contract

The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probably be available before the middle of the year, and will then be substituted for those estimates.
 Laclustive of some suburbs.

ORIGINAL LECTURES.

ON THE INFLUENCE OF THE NERVOUS SYSTEM ON DISEASES OF THE ORGANS AND TISSUES.

By THOMAS LAYCOCK, M.D., etc.,

Professor of the Practice of Medicine, of Clinical Medicine, and of Medical Psychology and Mental Diseases, in the University of Edinburgh.

(These tectures have been revised, and somewhat extended, by Dr. Laycock.)

Lagrung II.

SPECIAL TISSUE-CHANGES IN RELATION TO DIAGNOSIS AND THERAPEUTICS,

I sual. now consider, with a view to diagnosis and therapeutics, what special tissues are affected in morbid states of the nervous system, and with what results. Let me remind you, however, of the therapeutical facts we have ascertained. I. We have learnt the important fact that various tissues, whether vecetal, animal, or nervous, are affected by nearrois drugs. 2. That the changes they undergo, whether normally or therapeutically, are chemical, and that the chemical affinities therein operative are of the kind peculiar to living tissues which I have termed evolutional. 3. That the common characteristic of these changes is that they are regulated to ends, and that fur regulation is also the special characteristic of lifting the characteristic of the contractive of the value energy; the other more especially regulative or sensory, and correlative with vital energy; the other more especially regulative or sensory, and correlative, in that respect, with what is termed soul, mind, etc.

Now, all these energies are vital in the sense of being peculiar to living tissues; but there are other kinds of energy, known as the physical and molecular, which are equally exsential to vital changes, yet not peculiar to living tissues. These may be named conditioning energies or forces, because they supply those conditions of vital matter without which

there is no manifestation of vital activity.

These physical or molecular forces must, therefore, be of great therapoutical importance generally; and since the norvous system regulates their production and distribution, their therapeutical applications cannot be understood without a knowledge peutical applications cannot be understood without a knowledge of these neurotic relations. These forces are light, heat, elec-tricity, and chemical affinity. Of chemical affinity I shall say nothing now, being too large a subject; light, produced by lower animals, is of primary importance to healthy activity; in man, as well as plants, electricity is largely accumulated in nerves and in all motor tissues; but of all these molecular forces or energies, heat is the primary and fundamental, as conditioning the production and accumulation of all the other conditioning the production and accumulation of all the other cenergies, whether physical or vital, in all organisms. It is for this reason that changes in temperature play so important a part in disease, and that a knowledge of the philosophy of "taking cold" includes the study of the most fundamental questions of theory and practice. I shall not now treat of heat specially, but only observe generally that the variations of temperature compatible with healthy vital activity are widely different in both animals and vegetables. In man and warm-blooded animals a certain uniformity is necessary, which is attained by the regulative action of both the nervous system and the tissues themselves, so that there is an increased production or a diminution of heat, as may be needed. The normal temperature of the human body varies in individuals with the temperature of the day, the age, the constitution, and other circumstances, but only within the limits of about 1º Fahr. The average temperature of adults aged 25 is about 98°, and aged 40 from 98.5° to 99°. When we consider how many external When we consider how many external of warmth of body is an incontrovertible proof of a regulative power. This, as we shall shortly see, has its seat in a distinct portion of the nervous system. The cooling power, I would observe, is quite as remarkable as the warming. Four-fifths of the oxidisable materials of the body are finally expended as heat, and yet in health we are never feverishly hot.

In the healthy and morbid nutrition of tissues the property of contractility (sometimes termed ris initial) plays an important part. Whether it be a correlative of electrical attraction and repulsion, or of the physical property of contractility, or a conjoint product of both. It do not stop to inquire, but it is certain

Vol. 1, 1871, No. 1083.

that when it is directed to ends it is to be classed with the vital energies. It is thus manifested in many plants, not only in the well-known movements of the leaflets of the sensitive plant, but in unwersus other instinctive acts and processes—as, for example, when the petals of the wood-sorrel and daisy close at night or in the absence of the sun, thus protecting the reproductive organs from cold and damp. Contractile dissociates them, chiefly or wholly. The elementary cells of a contractive stem, chiefly or wholly. The elementary cells of a contractive stem, chiefly or wholly. The clementary cells of a contractive stem, chiefly or wholly. The clementary cells of a contractive stem, chiefly or wholly. The clementary cells of the contractive shows in which contractive shows in which contractive shows in which contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in man by the palice and contraction of the contractive shows in the shows the shows in the shows the

The relations of the arterial and lymphatic systems as con-Ane relations or the arterial and symphatic systems as con-tractile tissues to the nervous system and to neurotic drugs, and of their contained contractile cells or corpuscles, are of primary therapeutical and clinical importance, being so intimately associated with nutrition of tissues, and with absorption, excretion, and secretion-functions so commonly altered in disease. Transcendental anatomists say that the capillaries are evolved out of the blood corpuscles; the lymphatic and blood glands seem to have important relations to the white and property and the property of t primary qualities of these contractile tissues, and what their primary quanties of these contractic tissues, and what their relations to their living contents. The law of evolution shows that the vessels have a rhythmical action, independently of, that the vessels have a rhythmical action, independently and anterior to, the heart and nervous system. Hence, whenever vasomotor innervation is defective, the vascular system becomes free to act according to its primary laws. We can understand its morbid condition better if we suppose the iris uncerstand its morbid condition better if we suppose the first to be a thin section of a thick artery, and to represent in the antagonism and contractions of its two kinds of fibrils a similar condition of those of the arteries. If, as I stated in a previous lecture, a contracted iris means palsy, then the like state of an artery means palsy too, in so far as the dilator-fibrils are involved. A like condition is seen in muscular contraction with palsy, as in club-hand or club-foot. Now, besides changes in the vis nervosa, various conditions of the blood influence them. A change of temperature excites the iris so with the vessels; the like result follows from the pre-—so with the vessels; the fixe result numes from the presence of alteratives, like digitalis, opium, beliadonna, erget, because the contractility of cells is modified by evolutional chemical agents. It is probable, by acting in this way on the cells, that opium paralyses the leaflets of the sensitive plact. In therapeuties the fact is of great practical importance. I have observed that strychnine exercises a rapid curative influence in certain neurotic kinds of emphysema and bronchitis, and I think, by acting on the air cells as well as on the nerve tissue; in like manner it is useful in fatty degeneration of the heart. So, also, opium is dangerons in certain other neurotic disorders of the lungs, by paralysing by direct action the capillary bronchi, and, perhaps, the bronchial cilise. It is more than probable that neurotic drugs have a direct influence on blood processure that neurous errogs nave a circet influence on blood cells and on compound contractile tiesses, as the lymphatics, capillaries, and absorbents, when used in congestions, inflammations, and dropsies. It is in this way that we can understand both the general and local action of sedutires, as uniform the contraction of the contractions of the contraction of the co opium is the chief, but there is a very numerous group of neurotic drugs, which includes some of our most potent sedatives and antiphlogistics, as aconite, colchicum, veratria, atropia. The most certain local sedatives of the mineral class, such as the salts and oxides of zinc, bismuth, silver, iron, lead, are also valuable neurotic drugs, more especially in diseases of the nerve-centres, like epilepsy, chores, locomotor ataxy. When I discuss dropsies, I will classify the empirical remedies for you on these principles.

The degenerations of the bloodvessels are for the most part diathetic, of whatever kind they may be. Excessive use precedes arterial degeneration, whether it be local or general.

Hence it is that atheroma is most common in arteries most used. and in those portions of an artery in which the contractility is continually strained by its curves, branchings, or relative posicontinually strained by its curves, branchings, or relative posi-tion to parts compressing it. The veins, not being contractile, are very rarely the seat of degeneration. The left heart and the arteries may be said to belong to ene homogeneous tissue, and are therefore affected by common causes of tissue-changes. There can be no doubt that painful emotional states serionsly and eften rapidly affect their nutrition, as well as their contractility. Amongst common causes of functional disorder are those states of the nervous system which, without paralysing, diminish contractility, and so induce dynamic cardiac and (socalled) ansemic vascular murmurs. Nervous palpitations and called) anemic vascular murmurs. Nerrous paintatues and nerrous pulsations belong to this class, and precede structural change—as in vascular bronchocele with exophthainos. Nerrous hemorrhages are also results of these functional defects in vossels. Whatever may be the predisposing or exciting causes of earlies and arterial degeneration, the nerrous exciting causes of cardiac and arternal degeneration, the acrous system operates differently in the two sexes. Ancursus, angina pectoris with structural disease, atheromatous and calcific degenerations of the cerebral and coronary arteries, the constitutional tendency to bleed termed hemophilia, and constitutional tenuency to bleed termed hemophinis, and ether morbid states, are all predominately manifested in males, ether morbid states, are all predominately manifested in males, neuroses (vaso-motor) of the heart and actories are decommon in females. Differences in dict, habits of life, and the like, de not explain these facts. I may add, the differences involve also differences in the blood of the secres.

(To be continued.)

ORIGINAL COMMUNICATIONS.

CASE ILLUSTRATING DIFFICULTIES

DIAGNOSIS OF CEREBRAL HÆMORRHAGE AND DRUNKENNESS.

By J. HUGHLINGS-JACKSON, M.D., F.R.C.P., Physician to the London Hospital, and to the Hospital for the Epileptic and Paralysed.

THE difficulties in the diagnosis of Apoplexy from Drunkenness are often very great, as the following case illustrates. The diagnosis of drunkenness was, however, not made in this case. There was a clear history of the mode of onset of the seizure. but from the symptoms alone it would have been far from easy to have negatived drunkenness. Suppose the patient had been tound in the streets, and suppose he had taken a glass of spirits for premonitory symptoms, drunkenness would have been the most likely diagnosis. Strictly, I think, the diagnosis would have been impossible under these circumstances.
All persons found in the streets "drunk" should be tenderly All persons found in the streets "drunk" should be tenderly treated. I would strongly advise the young Fractitioner never as a public-house, to the small of drink, or can wignesses, a public house, to the small of drink or can wignesses, or public house, to the small of drink or can wignesses, or a public house, to the would occasionally make a most painful blunder. In cases where he is told that the patient has been "sucking the monkey"—i. a swelting new spirit from a cask—the diagnosis is made for him. The policeman who brings the patient knows as well as the Doctor that the patient is suffering only from drink. He should, as a mental exercise, ignore the history, and see if, from the condition of the patient, he could make a diagnosis. He would have to consider many things, uremis, cerebral hemorrhage—especially hemorrhage into uremia, cerebral hemorrhage—especially hemorrhage into uremia, ecrebral hemorrhage—especially hemorrhage into the prost waveli—and most carefully the question of injuries to the host. It have seen several cases in which, after fatal a great deal. He must remomber that cerebral apurptons may come on some time after an injury to the head, and that the external signs of that injury may be slight. Again, we must bear in mind that a slight blow or fall may cause meningeal hemorrhage in a drunken man, and that thus drunkenness and apoplexy may coexist.

In future numbers, I hope to place on record other cases of apoplexy; and when a sufficient number have been recorded, I shall try to say what can be said on the question of diagnosis of the several causes. I have already recorded (November 2, 1867), a case of meningitis simulating apoplexy from cerebral hemorrhage. The word "apoplexy" is here used not as synonymous with effusion of blood, as it so often is, but as the name of a condition which many other things besides cerebrah

name of a condition which many other things besides cerebrab-hemorrhage produce. In strictness, deep intoxication is apopleay, but it is convenient to give a separate name for it. Most valuable information on cases of alcoholic coma will be found in papers by my colleague, Dr. Woodman (Motical Mirror, July, 1865, and February, 1886), in which the diffi-culties of diagnosis are very carefully discussed. For the whole of the life history of this case I am indebted to Mr. Stephen Mackenzie. The report is one of great value, and contains many particulars of interest. James R. aged 45, cooper, admitted about 4.30 p.m., died at 7.45 p.m. When seen in the receiving-room, he was lying en the couch, partly on his back and partly on his right side. He would at times the quite still for some minutes, and at others would not times lie quite still for some minutes, and at others would roll about on the couch. When roused, he made irritable movements, as though to push one away, swere, and turned round en to his right side. At times, when roused, he was quite violent, and made attempts as though he would strike. He could move both arms and legs. He was so irritable when He could move both arms and legs. He was so irritable when excited that Histened to his chest with a sethoscope with some trepidation, lest he should strike me. All this time he did not speak, except to swear when irritated. Raising his cyclids had the greatest effect in arousing him—more than shaking him had. He always turned over to the right, which was towards had. Its always turned over to the right, while was Howards the wall, and consequently a way from the light was Howards of the wall of the way of the light was the way of the light was the way of the light was the way of the wall was the wall wa

Brutt to be acast, as the stretcher to be carried up-stairs, when lifted on to the stretcher to be carried up-stairs, he rolled on to the right side, and he was able to move so much that he was obliged to be strapped down for fear which falling off. When he was lifted he swore a great deal. When being carried upstairs, he moved about on the stretcher, and swore several times. By rousing him I could make him put out his tongue, but he would not or could not give his name. His wife says that when he was placed in bed she tried to make him recognise her. He said more than once "Mary Ann," but she dees not think he really knew her. She says, further, that he sat up in bed, and looked round him, and further, that he sat his he de, and looked Yound aim, and several times put his hands up to his head, one front and the several times, but he hands and the dipling," several times, and "What be going to do." Both she and the patients in the ward say that he got out of bed without assistance, sat on the edge of the bed, and looked for the chamber utenil beneath. Not finding it on that looked for the chamber uterail beneath. Not finding it on that side of the bed, he stretched right ever to the ether side, reached it, used it, and then put it down quickly, and threw himself back into bed, but and the put it down quickly, and threw himself back into the characterial times, throwing off the bed-clother, and would then subside after a few minutes. He would then rouse up and "rub his head." Some fellow-workmen who came with him say that the expression he used several times was, "God 4-a," and a planten in the ward says he exclaimed "Christ."

The nurse sent for me about half-past six, because he was The nurse sent for me about hair-past sxy, because he was-much worse. When we arrived his breathing was said to be-better than it had been. He was very cold. Mr. Tom Robinson observed that the right eye was directed inwards. Ordered brandy enema. He had a hot bottle to feet. He died at a quarter past seven.

A fellow-workman thus describes his seizure :- Ho was hard at work, when he turned round to the man who was next to him, and looked him straight in the face, as though he was going to speak to him. He said nothing, however, but gradually slipped down on to him. He said nothing, however, outgradually suppeddown on to the ground. They ran to him, and found him very red in the face, and red all over, but not more so than a man usually is who had been doing the work he had. He then turned white all of a sudden. They got him some brandy, but he could not wallow it. They tried to make him speak, and to shew signs of recognition, but failed. One man noticed that the left eye was more opened than the right. This he is quite certain of, as he looked into his eyes to see if he would know him. They got him into a cab to bring him to the Hospital, when he gave utberance for the first time, exclaming several times. "God d-m." He put his left claiming several times "God d-n." He put his left hand up to his head several times. He could not have used his right arm, as he was supported on that side, thus constraining that arm.

His wife gives the following account of his previous health:—He has been a man who has taken a good deal of

stimulants, but who did not get drunk. He had been acting sumulants, but who due not get drank. He had oeen acting as foreman where he was employed for many years, and his as a summary and the same and the same as the sa past, and never felt well until he had taken something hot-either tea or, better still, a little hot rum-and-water. Th e pain in the head has been severe, and would sometimes keep him awake at night. This, however, was the exception, for, for some time past, he had been much more sleepy than he used to be. Lately he had been very sleepy. For some years past he has started in his sleep, and talked a good deal. There is a history of a stricture of urethra, and lately be has had noctural micturistricture of uresthra, and lately be has had nocture all mietari-tion. He has been asbiget to going off in a faint at fright. When his wife told him, a short time back, that he was very feet, and he was often "very low." When he was life feet, and he was often "very low." When he was life this, on his wife speaking to him, he would ask to be let alone, saying "he would sleep it off." On March 15 he came bone rather late from work, and said "he had been thing reven lated, but was better now." He said "some queer in his head, but was better now." He said "something seemed to have struck in his head when at work." The following morning he was very sleepy, and when his wife alled him, he asked to be allowed "to have his nap out." When he went to work she thinks he felt ill, but not worse than on other mornings.

Mr. Mackenzie adds to his report the following remarks; -The difficulty in forming a diagnosis in this case was very great. Here was a man in collapse, rolling about on a couch as if in pain, able to move all his limbs, who could out out his tongue, but could not or would not answer questions. The condition of his eyes and face threw no light on the subject. The history of his seizure was that he had slidden on to the ground without any warning, and had remained almost, if not quite unconscious, only swearing when disturbed. All that could be clicited at the time of his previous condition was that he had had pains about his body and head for years, and that

he had been subject to morning vomiting.

Autopsy. - There was most extensive meningeal hemorrhag The blood lay in great bulk at the base, extended into all the fissures, and irregularly to the upper surface. It was as near as could be estimated quite like that of a case of rupture of an anaeurism of the posterior communicating artery, on the table at the same time. But in James R. s case a most careful search dis-closed no nacurism. There were no bruises of the head, no frac-ture of the base, and no bruises of the brain. Probably a small aneurism was overlooked, although an hour was spent in the search for one. search for one. Both lungs were very bulky, very codematous, soft, and marbled dark and white. In a few parts were black, not well-margined patches, but no distinct apoplexies. Heart: Left ventricle firmly contracted, and its walls thicker than natural. No valvular disease except a patch of atheroma on natural. No valvular disease except a patch of atheroma on the aortie segment of the nitral valve. Vegetations were carefully looked for. The muscular structure of the heart was sometimed to the second of the care of the heart was healthy. Aortic Etonsiv'dy atheromations. Live round-bestlipt, Aortic Etonsiv'dy atheromations. Live round-ongested; sphere very small. Kidneys: Capsules somewhat adherent, and the surface beneuth faintly granular; cortical substance not diminished; medullary cones and pictus intensicy congested. Stellate vens prominent.

ON FUNCTIONAL REGURGITANT BRUIT.

By ALEXANDER SILVER, M.A., M.D., Sculor Assistant-Physician Charing-cross Hospital, and Lecturer on Physiology in the Hospital School of Medicine.

Haute intracardiac murmur-i.e., one depending on change in the blood itself—"is (says Walshe), as far as I have observed, invariably basic in seat and systolic in time." This assertion. so bold and so sweeping, would seem to have impressed itself so vividly on the minds of most men that they are altogether unwilling to admit the possibility of a regurgitant murmur being essentially hæmic in its origin. Nevertheless, it must have come within the experience of many men engaged in practice, that a murmur, systolic as to time, and ultimately disappearing with the use of remedies, is sometimes best beard on the left side of the body, about halfway between the nipple and the sternum, or even lower, distinctly below the origin of either the aorta or pulmonary artery. In some cases,

indeed, such bruits may be clearly heard at the apex of the heart. These bruits must depend on one or other of two things—alteration in the blood, or alteration in the heart itself. Tha temporary bruits depending on the latter cause may occur, Dr. Walshe seems fairly to admit.

But it seems to me that auriculo-ventricular regurgitant bruits may be produced in at least two ways, neither implying

any permanent change in the beart's substance.

1. Many men have noted that under the influence of excitement a temporary systolic bruit may be produced at the apex of the heart, and in many cases of chorea an apical systolic bruit may be heard to diminish pari passes with the general disease. The explanation which has been given of the latter discase. In expansation without as occur given or the latter phenomenon may be applied to the former also. In chorea, defective innervation induces irregular movements in the muscular system generally; and seeing that certain of the motor nerves of the heart are transmitted from the great motor centres by means of the lower cervical and upper dorsal spinal nerves, there is no reason to deny that the heart may be affected in like manner with other muscles. In this wise, therefore, irregular or spasmodic contraction of the papillary nuscles being brought about, complete and simultaneous closure of the auriculo-ventricular valves would become impossible, and regurgitation with bruit would result. If in the former instance—viz., that depending on excitement—we read nervous agitation lasting but a moment, and most likely de-pending on dread of the ordeal of examination, for the defective innervation of chorea, we have at once an explanation of what at first sight seems inexplicable. This temporary condition of the papillary muscles may also be, however, permanent, and in their improper or insufficient action we have an explanation of certain abnormal sounds, which after death are not accounted for by any important material lesion of the valves. Thus, in the for by any important material lesion of the varves. Thus, in the dilatation, with hypertrophy, which commonly results from active regurgitation, when the apex beats on a level with the sixth rib, and outside the nipple, it is plain that the apex is further removed from the base than in the normal condition—that is to say, the chordse tendines must be stretched, or the musculi papillares clongated, or, these both remaining normal, the valves must close imperfectly, so that regurgitation follows. That the last result is not uncommon, seems indisputable. A function of the result is not uncommon, seems indisputable. A namenic, and yet regurgitant. Flaceidity of the tissues is universal in amenia; being so, of course the heart is liable to be affected as are the other organs, and in very bad cases of amenia dilutation of the heart has been noted as one of the post-mortem phenomena. But there are cases of inorganic bruit where there is no reason to suppose that this has taken place. Dr. Stokes, in his usual careful fashion, has noticed the existence of mitral bruit during convalescence from typhus, and that with returning health the bruit has disappeared. The relaxed condition of the muscular system after typhus would seem to afford a ready means of accounting for such a sound, in accordance with the above views. Interference, then, with the functions of the musculi papillares may without any permanent lesion produce a functional bruit, systolic as to 2. But it is of the next variety of sounds that there is most

doubt, and which, nevertheless, seem to be the most common. All sound is the product of vibration, however induced. In the blood stream this vibration must take place, either in the blood itself or in the walls of the vessels containing it. In the formation of regurgitant as of obstructive bruits, but more, perhaps, in the latter than in the former, vibration of the blood itself must have a considerable share. If we take the simplest illustration—say that of a pile driven into the bed of a rapidly flowing stream—it is the water which produces the noise, not the pile; and so in many instances of the blood current. It is universally admitted that in ansemia a bruit without material lesion may occur at the entrance both of the without material lesion may occur at the entrance both of the aorta and of the pulmonary actery. This brut, depending on blood changes, implies either greater vibration, or, with the same vibration, increased resonance of the blood, or of its including ressels. The former seems the true explanation of the phenomenon, so that with the ordinary amount of obstruction encountered at the pulmonary and aortic orifices a new sound is pro-duced; and not only so, but should any other obstruction be encountered, there also a bruit will be heard. Of this kind is the bruit produced in young people, especially girls suffering from angunia, by pressing down the stethoscope into the second left amenta, by pressing down the section-copy into the section let intercreeks space, and causing them to expire deeply. Such a bruit is purely artificial, and may ordinarily, with much less trouble, be elleited in the subclavian, just below the clavicle, near where it is attached to the scapula.

The next point in my argument is this. Normally—that is to say, without any material disease—the tricuspid valve acts imperfectly; with the alightest extra pressure or without any pressure at all, if the parts are flaced, regurgitation results. pressure at all, if the parts are macou, regurgitation results. Under ordinary circumstances, this regurgitation produces no important sound, or, if it does, it is usually drowned, even in those cases where we encounter pulsating jugulars. But with the blood of anemia it is different; regurgitation, not necessarily the blood of amenia it is different; regurgitation, not necessarily implying any organic lesion, takes place, and a bruit results from the condition of the blood. From the above considerations, it would also follow that bruits actually depending on organic lesions may have their characters essentially modified by changes in the condition of the blood. This is doubtless the case in rheumatic fever, one of whose essential characteristics is the production of anamia, and in whose course towards convalescence the alteration of tone or the total disappearance of an endocardial murmur is by no means unfrequently observed; in short, functions ordinarily performed noiselessly may, in ansemia, produce sound, and those giving rise to sound normally may, under similar conditions, have these so modified as to become what we call bruits.

It has been objected to these views that, were they correct, functional tricuspid regurgitant murmur would be more comnonly recognised. The answer is, I think, that tricuspil regurgitant murmur would be more frequently detected if more sought for. Habitaally, men listen at certain points of the chest, and if a murmur is heard there well and good; they do not always or even often trace it to its point of maximum intensity. Were an apical bruit, for instance, followed up ntensity. Were an apical brain, for instance, ronowed up from the aper to the sternum, it would not unfrequently be heard loudest over the tricuspid valves, and so of those best heard at mid-sternum; whereas mitral bruits are not unfre-quently best heard behind—that is to say, to the left of the

apex beat.

Two things seem to me clear: that functional regurgitant bruit is not rare, and that, when due to antennia, it is most acquently tricuspid. If so, it is clearly of importance that the fact should be generally recognised. It may be roundly stated that obstructive bruit is not of such evil omen as is regurgithat obstructive bruit is not of such evil onen as is regurga-tant, and that, when accompanied by amemia, its importance is still less. Nevertheless, students, and even some Fracti-tioners, are no much accustomed to attribute evil import to abnormal bruits of any kind (and I have known of lives broken aconorma orders or any sund (and I have known of lives broken in this way by a rash prognosis), that facts like these cannot be too forcibly impressed npon the mind. Thus, I have again and again had students diagnose aneurism from the subclavian bruit I have above referred to. It is from the constitutional as well as the local symptoms—from the totality of the case, and not from the bruit alone—that both the diagnosis and the prognosis (let it be also said the treatment) of a case of heart disease must be deduced.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

CHARING-CROSS HOSPITAL

CANCER OF THE PYLORUS—SECONDARY DEPOSITS IN THE LIVER AND MESENTERIC GLANDS. (Under the care of Dr. POLLOCK)

R. B., and 22, tailor, living at Hounslow, a tail, thin, dyspeptio-looking man, had been seen once or twice by Dr. Pollock as an out-patient. He afterward came under the care of Dr. Silver, by whom he was treated until his admission. His bowels had been habitually out of order for years, he had suffered much from piles, and was sometimes troubled with suffered much from piles, and was sometimes troubled with indigestion. He was not accustomed to be sick. His urine had generally been pale and plentiful. Between two and three years ago he began to have pain in his stomach, more particu-larly after food, beginning about half an hour to an hour after meads, sepecially after dinner, and lating for hours. The meads, and the second of the second particularly and was not confined to any one spot, but was most server as the the line of the hyrochordini. It was of a grainpin character. was not confined to any one spot, but was most server across the line of the hypochodria. It was of a gripping character, but more server than ordinary gripes, and was accompanied by swelling. The pain was increased by slight pressure, but relieved by long and continuous pressure. Latterly, the pain increased, but was still not fixed to one spot, and the patient was sometimes sick, but not often, bringing no partially-digested, partially-formented food. The man came under the care of Dr. Silver on January 31, complaining of this actions, and obtain the complete of the property of the complete of vellow colour of the skin had been gradually coming on for the same period. An epigastric tumour had been previously discovered, but no exact note taken of its site and connexions. On the above date it was made out to occupy the epigastrium and a portion of the right hypochondrium, extending upwards to the left rather than to the right, and in shape rounded and nodular. The stomach was distended with wind, and the colon

was empty, except in its descending portion.

He was admitted as an in-patient on February 28, in much rie was samitted as an in-patient on February 28, in much the same condition as described, but more emaciated and somewhat more deeply jaundiced. The bowels had not acted for some days, and an enema of castor oil and turpentine was ordered. The bowels were freely opened, after which the tumour was more distinctly defined. It was found to occupy the position noted above, was somewhat resonant on percussion, and was separated from the liver by a well-defined line of demarcation. Upwards it could be traced as far as the stomach, downwards it extended nearly to the umbilious. At this time the margin of the liver was soft and well defined, not much larger than usual; no nodules could be detected on the surface

of the liver.

He was ordered one-sixth of a grain of morphia subcutaneously every six hours, the dose to be somewhat increased at bedtime; and this was continued, but in gradually larger doses, up to his death. The bowels were occasionally moved doses, up to his death. The cowess were occasionally moved of their own accord; occasionally an enema was necessary; the faces always contained a trace of bile. There was little change in the symptoms from the time of his admission up; to that of his death, beyond gradual but rapid emaciation and rapid growth of the tumour. By-and-bye a nodule gave evi-dence that the liver was affected. He died ntterly worn out,

on March 23.

on March 23.

Remarks.—The interest of this case lay in the diagnosis.

As to the nature of the disease there could be no doubt; its site constituted the difficulty. The two organs most frequently site constituted the difficulty. The two organs most frequently affected by cancer in this situation are the liver and pylorus. Primary cancer of the liver is rare (it does occur), and here there was no evidence of cancerous disease except in the epigastric region. Besides, there was a distinct space, resonant on percussion, between the tumour and the liver. The hepatic origin of the mass, therefore, was put on one side. The long-tanding history of the case (two or three years), the occasional sickness, the pain half an hour to an hour after food, lasting for a good many hours, pointed rather to the pylorus pointed rather to the pylorus reaching listory to the number of the property of the case (the property of the property plicating the bile duct, and so producing jaundice, could hardly pheaning the due duet, and so protein judiciae; could harry arise directly from the pylorus. The opinion was therefore entertained that the duodenum or the glands in its vicinity were the subjects of secondary cancer, and that probably the liver was also implicated. The rapid and regular growth of the tumour towards the termination of life led to the belief that the abdominal glands had become affected to a large extent.

Post-mortem .- The post-mortem examination substantially confirmed the diagnosis, except that the liver was involved to a much greater extent than was anticipated, constituting a typical much greater extent than was anticipated, constituting a typical specimen of secondary hepstic cancer. A mass of cancerous glands situated in the transverse fissure of the liver pressed upon cystic dute, for the gall-bladder was enzomously distended. In this way, doubtless, the jaundice had been produced; but the imperfect closure of the duct allowed a small portion of bile to pass and stain the faces. The pylorus was converted into a scirrhous mass of cartilaginous hardness, but neither the duodenum nor the stomach away from the pylorus were affected The great bulk of the cancerous mass was made up of enlarged glands, the softness of which was in marked contrast to the glands, the softness of which was in marked contrast to the excessive hardness of the pylorus. The mesenteric, kumbar, and mediastinal glands were all secondarily attacked. The posterior wall of the aorta, where it came in countact with the cancerous glands at the back of the cheet, was also affected externally. There was a small quantity of bile-statined fluid in the cavity of the peritoneum, probably resulting from the pressure of the cancerous glands upon the vena porta in the transverse fissure. All the tissues of the body were deeply stained with bile Two things especially were worthy of notice in connexion with this case. The first, that the pylorus being the primary seat of the disease, the mescateric and lumbar glands became carried backwards along the lymphatics of the iginum and ileum? Secondly, the great value of opinm administered hypodermically in such cases. The constant rounding would have prevented its effectual exhibition by the moath; whereas, by this means, the patient was, during his whole stay in the liopital, kept in a state of comparative comfort, and almost free from pain.

THE MIDDLESEX HOSPITAL.

ANEURISM AT THE BEND OF THE ELBOW— FAILURE OF FLEXION AND COMPRESSION— DELIGATION—CURE.

(Under the care of Mr. HULKE.)

A WOLLY, speed 30, while lifting a heavy speed and the heat fore, felt a shirt speed and the speed and the heat day a swelling in this part. Six weeks later, at which time the was admitted into the Middlesex Hospital, it had become an oval, expanding, pulsating tumour, of the size of a pigeon's egg, situated just below the bend of the elbow, where the brachial artery usually divides into the radial and ulnar. The ulnur artery was subcutaneous from the wrist upwards throughout its whole course in the forearm, passing over, instead of beneath, the superficial flexor muscles, ascending in front of the inner condyle of the humerus, a little above which it inclined outwards, and, closely approaching the radial continuation of the brachial artery, was traceable parallel to this vessel to rather above the middle of the arm. In size and in its course, the radial vessel was the direct continuation of the brachial. It was traceable to the ancurism, but not discoverable between this and the wrist, which indicated that the blood probably left the sac posteriorly through an interesseous artery. The aneurism ceased to pulsate when pressure was made on the radial artery above the elbow, and then slight compression sufficed to completely empty the sac of blood.

The patient had had three attacks of rheumatic fever. She

had mitral and aortic valvular disease, and she often fainted. Her urine contained a little albumen; her legs were slightly

swollen, and speckled with a few small purpure spots.

Her condition being eminently unfavourable for any Surgical operation, flexion and compression were thoroughly tried; but these failing, and the ancurism onlarging, Mr. Hulke tied with a fine carbolised hempen thread the radial artery in the arm, at a point midway between the bifurcation of the brachial artery and the tumour, which immediately arrested its pulsation. wound was dressed with a slip of lint dipped in carbolised oil, covered with gutta-percha.

covered with guita-percan.

Next day a feeble pulsation was felt in the tumour; but it ceased on the day following, and did not return. The wound sclosed almost by first intention, searcely yielding a drop of pus, and the tumour consolidated and shrank. The ligature separations of the property of the consolidated and shrank. rated on the twenty-first day.

The above account of the case is condensed from the notes

of the dresser, Mr. Lycett.

STRANGULATED FEMORAL HERNIA — HERNI-OTOMY—SAC OPENED — OBSTINATE REMOVAL REMOVAL FROM HOSPITAL AFTER OPERATION-DEATH.

(Under the care of Mr. HULKE.)

Robert P., aged 68, was admitted into Clayton Ward, under Mr. Hulke's care, on the evening of February 7, 1871, with a tense oval swelling the size of a hen's egg below Poupart's ligament, over the saphenous opening, giving no impulse on coughing, and having a smaller lump attached to its outer side resembling an enlarged gland. The skin over the swelling was red and tender, the tongue was clean and moist, and there

was red and tenuer, the folgino was cean and most, and there was much pain in the belly conditions and there was much pain in the belly.

The patient was a feeble, deaf old man, and it was with difficulty ascertained that he had been raptured and had worn a trues for some years. A fortnight back a new and imperiently fitting trues had failed him, and for some days below the state of the state admission the bwel had been down, but the exact time could not be ascertained. He had vomited, had had no stool for some days, and unavailing attempts at taxis had been already made. At 8 o'clock in the evening chloroform was administered,

and Mr. Hulke, fearing to repeat the taxis, at once cut down upon the neck of the hernia. The sac was very thin, and cou-

tained chiefly omentum, and a couple of ounces of bloody scrum escaped on its being opened. The omentum was very sersum erempet on 1st owing opened. The omentum was very congressed, and a rather denor pieco fit, lying in a divertica-lum prolonged outwards along Poupar's ligament, formed the harder mass, slightly isolable from the general swelling, which had simulated a lymphatic gland. The wound was closed with fine earbidised extures, having been first washed with a solution of carbolic acid, and lint soaked in carbolic oil was laid over

of carbone acid, and int source in carbone on was and over all under a pad. Ordered pil, opil, gr. j., 4th hôris. Next day the man's condition was greatly improved. He had passed a good night, was feeling quite casy, had a clean moist tongue, and complained of being very hungry. On the following day, however, he thought that he had dropped a shilling, became exceedingly restless, insisted on rising to search for it, and would not be pacified. This disturbance produced a serious change. Next morning he was delirious, refused all a serious enange. Next morning he was centious, retained air medicines; the belly was hard and tympanitic, scanty bloody fluid cozing from the wound; the pulse became small and week, and the hands dusky. A large finseed poultice sprinkled with laudannm was placed over the abdomen, as it was clear with hundrium was pinced over the automot, as it was critered to be kept that the man had peritonitis, and he was ordered to be kept very quiet; but on the same evening his friends came and removed him from the Hospital, disregarding the urgent representations of the House-Surgeon, and it was ascertained that he died at home two days later, the woman nursing him being drunk.

STRANGULATED OBLIQUE INGUINAL HERNIA— HERNIOTOMY—SAC OPENED—WOUND DRESSED ON LISTER'S PLAN—IMMEDIATE AND SOUND CICATRISATION WITHOUT SUPPURATION.

(Under the care of Mr. HULKE.)

J. S., a labourer, aged 59, was admitted into the male accident or, a anounce, aged or, was annues more as endeath ward at 4.30 p.m., on January 6, 1871, with a hernia in the left side of the scrotum, the size of a festal head, very hard and tense, giving no impulse on coughing, tympanitic above, but dull over its lower half, and causing intense suffering. He had generally worn a truss during twenty years, and had only once had difficulty in reducing his rupture. On that occasion, five months ago, he had been admitted into this Hospital, and the hernia was reduced by taxis under chloroform, after the the herms was reduced by taxis under canoriorm, are the continued application of ice. For some weeks the truss had been worn out, and to-day, whilst walking, the bowel came down, could not be returned by the patient's own efforts, and he forthwith came on to the Hospital. No relief being given by the ice-bag, hot bath, and ordinary taxis, Mr. Hulke was sent for, eight hours after the commencement of the symptoms. The man was by this time shivering, tossing restlessly about in great pain, vomiting bilious fluid, and with a small and quick pulse. The rupture was very hard, and already larger than on admission. Chloroform was now at once given, and taxis having been again tried without avail, an incision was made over the external abdominal ring, where a deep furrow seemed to indicate the seat of strangulation. The ring was cut, and some fibres outside the seat divided; and as the contents were still irreducible, the sac was opened, after which several feet of gut, with some omentum, were returned without difficulty. The wound was dressed antiseptically after Lister's method, and a pill containing a grain of opium ordered to be taken every three hours.

On January 10, five days later, the dressings were removed, the man having had no bad symptom, and the two outer sutures, causing some redness and suppuration, were taken out. Two days afterwards, the other sutures were removed, and the man made an uninterrupted recovery, leaving the Hospital conva-lescent, and fitted with a double truss (for a second hernia existed on the opposite side), on January 22.

STRANGULATED FEMORAL HERNIA—HERNI-OTOMY—SAC OPENED—RECOVERY.

(Under the care of Mr. HULKE.)

Helen C., aged 60, was admitted into Bird Ward on the evening of February 17, 1871, with a swelling the size of an orange in the position of a direct inguinal hereis on the right side, a cord-like continuation being felt extending to the sur, a core-use communition being fett extending to the saphenous opening. The skin covering the tumour was red and inflamed, and the patient was much prostrated. For fourteen years she had had a swelling in the right groin,

but she never wore a truss, nor applied for Surgical advice. Three days before admission symptoms of strangulation appeared. The bowels had not seted since; there had been much vomiting, and many unsuccessful attempts at taxis had been made. Mr. Hulke was at once sent for, chloroform administered, and the operation proceeded with. The inflammatory agglutination of the tissues not permitting the skin to be transfixed in the usual way, an incision was made over the prelongation to the sphenous opening. The sac was thin, and contained no serum, and on a spelled of omentum being drawn down, and the opening in the sac entarged, it was found that the mass of the hernia behind the omentum was a knuckle of parpliab-black gut, which adhered to the sac, and rendered it difficult to reach Gimberna's ligament with finger or director without risking perforsation of the bowel. A director was carefully inserted and the necessary insistion made, and then the tightly distended and the necessary insistion made, and then the tightly distended and the necessary insistion made, and then the tightly distended a special content of the special content of

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Medical Times and Gazette.

SATURDAY, APRIL 1, 1871.

STATE INTERFERENCE IN MEDICINE.

"A FREE Church in a free State" is the watchword of a growing party of ecclesiastical reformers amongst ourselves, and embodies a principle which has been one of the most powerful of the causes that are now convulsing the fabric of European civilisation. Without touching on the merits of the question of religious establishments, we would only observe it is a curious phenomenon, that whilst a large section of the profession of divinity are seeking to free themselves from the trammels of State interference, there should be found amongst ourselves in the Profession of Medicine a party who proclaim themselves desirous of placing the Profession more directly under the rule and governance of the Ministry of the day, of introducing the principle of State interference in our examinations, and of indirectly, but surely, sweeping away the ancient Professional institutions of the country by exchanging their diplomas and degrees for a State licence. Watching as we do the signs of the times, and noting the democratic tendencies of the age, we cannot but regard the policy of the introduction of State interference in Medical affairs as one that must prove most injurious to our interests, whether scientific or social. There is great danger that State Medical examinations would mean the degradation of the standard of Medical acquirements, the malversation of the funds derived from examination to State

purposes, and the starvation of those great institutions in the three kingdoms which for centuries have constituted the Profession in the eyes of the public, which are the monuments of that coprit do corps which has been a ruling principle in the lives of the greatest followers of Medicine-institutions which are the guardians of their labours, and the memorials of their fame. It seems tolerably clear that any attempt to pass a so-called "Medical Reform Bill" in the present session of Parliament must undoubtedly fail, and, for ourselves, we hope that the good sense and mutual forbearance of the Medical Anthorities will lead to such amalgamation of examinations as will cut away the only real ground on which legislative interference with the Profession can be advocated. Notwithstanding the delay which has been caused by the discussion of questions of detail, we have yet confidence enough in the wisdom of those who are conducting the negotiations for a Conjoint Board on the part of the three Corporations, to entertain a very strong expectation that this will be the case as regards England. The proceedings in the Conncil of the Royal College of Surgeons, on which we remarked last week, may lead to some animated discussions in committee, and even to some not unimportant modifications in the scheme as accepted by the Comitia of Fellows of the Royal College of Physicians; but the consolidation of examinations is so clearly the demand of the time, and is so thoroughly supported by the wisest and most far-seeing in the governing bodies of the Corporations, that we have but little fear that a scheme satisfactory to all parties will be ultimately agreed. npon. We know that the Committee of the Royal College of Surgeons has already held a sitting on the matter, and we presume that it will not be long before there will be another meeting of the delegates of the three Corporations, to discuss any modifications which may be suggested by the Committee of the College of Surgeons, or which may proceed from either of the other bodies

In our remarks on what passed in the Committee of the Council of the College of Surgeons last week, we noticed that discussion had arisen in reference to that part of the schemewhich referred to the distribution of the moneys derived from examinations after the payment of the examiners and attendant expenses. We have been since informed that a portion of the Council regarded with hesitation that clause of the scheme (Clause IX.) which provides that the mode of the division of the second half of the fees be subject to revision at the end of every three years. Now, considering the great pecuniary responsibilities which are borne by the Council of the College of Surgeons, we think that such hesitation is not unwarranted. The Royal College of Surgeons, independently of the grant of £57,000 from the State for the purchase and housing of Hunter's musenm-a grant spread over fifty years-has itself spent no less a sum than £248,000 for museum buildings, the maintenance and enrichment of the museum, and the support of the lectures illustrated by it. The annual cost of the museum to the College is £2800; the annual cost of the library is £750. Now, these enormous outlays have been mainly, if not entirely, furnished from the sums received from candidates for Membership. The College has expended, we believe, in the support of its museum and library not much less than fifteen pounds out of every twenty guineas paid by each Member. It is reasonable, therefore, we must confess, that members of the Council of the College should entertain misgivings as to a pecuniary arrangement which bears anything of a shifting and nucertain character. Not merely the Council of the College of Surgeons, but the whole Profession, are interested in the full maintenance and support of the Hunterian Museum and Library, and we therefore think thatany scheme which is finally agreed upon by the contracting Medical Authorities should include a permanent provision for the support of these great works. To partially starve the Museum and Library of the College of Surgeons, or to roduce them to such a standard that they would offer an apology for the designs of an enterprising Radical Minister who might wish to make them a department of the national collection, would be disgraceful to the College and disastrous to the whole Profession.

THE SMALL-POX EPIDEMIC.

THE mortality from small-pox in London recorded last week by the Registrar-General is a warning that we are as yet far from being "out of the wood." The registered deaths were 205, an increase of 20 upon those of the preceding week. The fatal cases showed an increase in all the groups of districts except the East, where the number had declined. There is reason to fear that, as the first alarm is passing away, and people are becoming accustomed to the presence of the enemy at their gates, they are feeling a security which is ill-grounded, and finding that the epidemic has lasted thus long without touching them are beginning to fancy that they were not far wrong, after all, in avoiding the temporary inconvenience of submitting to revaccination. Certainly the rush to the vaccinating stations is subsiding, although it is equally certain that there are still many thousands in London whose protection is nominal rather than actual. We tell such persons as are now disposed to chuckle over their escape, and to laugh at others who prudently renewed their vaccination some weeks ago, that their time may come yet. It is from such as them that the destroyer will gather his victims in the weeks yet to come, and nothing will keep the epidemic from spreading but a continued extension, to those whose vaccination has not been repeated since infancy, of the only protective measure that can be relied upon. They should bear in mind two things-the one is that the contagium of small-pox is broadly sown throughout the metropolis-we should be tolerably safe in affirming that there is searcely a street in London where it has not been deposited lately; and that from such foci it is diffused by channels that they are little aware of, and through which it may reach them without the possibility of avoidance. We will indicate one-namely, the articles sent out from the houses of laundresses and manglers, where persons are lying ill with the disease, or where clothing, etc., are received from small-pox patients to be washed or "got up." There are some, whose bliss lies in their ignerance, who would be astonished were they told of the proportion of domestic invasions observed in the public practice in London which have occurred in the dwellings of laundresses. If we placed it at one in every fifteen or twenty we should be stating a fact which, judging from the experience of at least one large district, there would probably be little difficulty in substantiating. The other thing to be borne in mind is that experience of former epidemic seasons is altogether opposed to any anticipation of even a comparative cessation of the epidemic until the month of May is well advanced; and even this will depend very much upon the sort of weather that may be in store for us towards the close of the spring quarter. Let it be well recollected that isolation, as carried out among the poor, who furnish full half the cases of small-pox, is a myth and a deception; that only a fraction of these cases are removed to the small-pox Hospitals, while the remainder are retained at home, their attendants pursuing their ordinary avocations out of doors, or in other people's houses, in workshops, etc.; while the patients themselves, as soon as they are well enough to go out, carry the contagion on their persons and clothing in all directions to their associates, fellow-workpeople, playmates, and others. Universal vaccination and revaccination are the only protection on which any dependence whatever can practically be placed.

We are sorry to notice that there is an indication of an epidemic of small-pox at Newcastle.

THE small-pox has spread to St. Petersburgh, and everybody is being revaccinated.

DR. DALRYMPLE'S BILL CONTRASTED WITH THE AMERICAN LAW.

Dr. Daleymple's Bill to Amend the Law of Lunsey and to Provide for the Management of Habitual Drunkards appears defective in an important respect. It only provides for the commitment by magistrates of habitual drunkards as defined by Section 1, to a reformatory, sanitarium, or refuge, if unable to pay for their maintenance in any other reformatory, sanitarium, or refuge. The persons described in Section 1 are such as "by reason of frequent, execssive, or constant use of intoxicating liquors are incapable of self-control, or dangerous to themselves or others, or incapable of proper attention to and care of their affairs and family." Now, many such are to be found among the classes perfectly capable of maintaining themselves in a reformatory, sanitarium, or refuge, but who may nevertheless decline to avail themselves of the privilege of admission to such institutions at their own request, as provided by the fifth clause of the Bill, and no such request may be preferred "by a near relation, friend, or guardian," under the power given by the sixth clause. Such persons, under such circumstances, could not be dealt with by this Bill unless they brought themselves within its penal enactments through having been "convicted of drunkenness or a breach of the peace while drunk three times within six calendar months," in which case they might be committed in the same way as their less opulent peighbours.

The American law makes no such invidious distinction, but direct the oversers of the parish to proceed against all alike. Class-legislation will not do in the present day on this or any other subject. Vice is vice, in rich and poor alike. Incapacity, like love, levels all distinctions. Any evil example is worse among the rich than among the poor, because it is more contagious. Upon what principle a wealthy drunkard abould be permitted to roam at large until he has been convicted of drunkenness or a breach of the peace while drunk three times within six months, and a drunkard less amply endowed should be more summarily dealt with, it is difficult to discover.

Friends will not always interfere, as by so doing they may make themselves obnoxious to a rich relative.

A noble carl died not long since, at a fashionable hotel in London, of delirium tremens. He was wealthy, but no relative interfered to place him under restraint, or even to oppose any moral check to his vicious babits.

The noble lord, by a stroke of his pen in his sober moments, could have alienated his vast estates. It is no answer to say that in the present state of the law interference in such cases would have alienated his vast estate, we are told, contract this said habit, and so far from interfering, the numbers of the family naturally try to serves them. Family respectability and the social position will never voluntarily endure a public exposure by taking the initiative. There must not, however, from any feeling of delicacy, be one law for the rich and another for the poor. The power given by the Bill to relatives and guardians need not be curtailed by clothing public officers with a like power in the event of the former neglecting their darty, but all classes should be placed on a requal footing.

It should also be borne in mind by the framers of the Bill that the jurisdiction conferred is of a civil rather than of a criminal character; in fact, an extension of the guardianship now vested in the Lord Chancellor relating to persons of unsound mind, and it would scarcely be wise to intrust its administration to upsaid, and, therefore, in a measure irresponsible, country gentlemen. The following is the American law on the subject:—

"Revised Statutes of New York.—Title II. Of the Custody and Disposition of the Estates of Idiots, Lunatics, Persons of Unsound Mind, and Drunkards.

Miss, and France was "Section II. Whenever the overseers of the poor of any city or town in this State discover any person resident therein to be an habitual drunkard, having property to the amount of 250 dollars, which may be endangered by means of such drunkard.

ness, it shall be their duty to make application to the Court of

ness, it shall be their duty to make apparention to the court of Chancery for the exercise of its powers and jurisdiction. "Section III. If such drunkard have property to an amount less than 260 dollars, the overseers may make such application to the Court of Common Pleas of the county, which is hereby vested with the same powers in relation to the person and real and personal estate of such drunkard as are by this Title conferred on the Court of Chancery, and shall in all respects pro-ceed in like manner, subject to an appeal to the Court of Chancery."

This latter section, of course, embraces persons unable to pay for their maintenance in an asylum, and by substituting County Court for Court of Common Pleas, and giving a right of appeal to any vice-chaucellor, a much more satisfactory tribunal would be established than that of the unpaid magistracy without appeal, or even with appeal, especially if, as suggested by Dr. Dalrymple's Bill, their jurisdiction is to be of a partial character. The county courts, having already equity inrisdiction in all matters to the amount of £500, might be left to deal with all cases where the drunkard has property to that amount or under, or none, leaving the cases of wealthier incbriates to the Court of Chancery; but, whatever the tribunal, the law should be set in motion by public officers, if relatives and friends will not move, irrespective of the station of the parties. The only reason for conferring upon the courts of common pleas of the county, in America, jurisdiction in the cases of persons of small or no means, is to save unnecessary expense, and our county courts afford an admirable means of effecting that object without doing any violence to principle, or creating any obnoxious distinction.

INSANITY IN INDIA. (a).

Ir the subject of insanity in this country be difficult; if we have men, apparently of equal skill and authority, flatly contradicting each other in the witness-box; if innate brutality is commonly confounded with imbecility; if a marderer need only commit his crime coolly enough and openly enough to be accounted insane-surely the difficulties in the way of arriving at a sound decision as to the insanity of a criminal are tenfold intensified in India. There the Medical inquirer has to deal with a strange people, speaking a language in which an accent may totally alter meaning; a people of peculiar customs and cruel rites, whose religious belief may at any moment start forth as savage fanaticism. It may be well, therefore, to point out some of the obstacles to be encountered, that, at least, the Indian Medical officer may be aware of them, and for the instruction of those in this country who imagine that insanity is a matter of which any plain man may judge.

Persons of weak intellect are not peculiar to either hemisphere, and are found in India as in this Western land : and if we have madness produced by ardent spirits, they have it as the result of gunjah. Of this we have already spoken, but not of one of its concomitants-running a mok. This practice is most common in Malay countries, although not by any means confined to these. The action is generally induced by some wrong, fancied or real, over which the victim broods until he can bear it no longer, when, after priming himself with bhang or opium, he first slays the object of his hatred, if at hand (for it is not always done), then, rushing into the streets, acts like a mad dog, killing or maiming every one he meets, until he, too, is cut down. Sometimes, also, a man sitting quietly among his friends will suddenly start up, seize the nearest weapon, and slay all he can until captured or put to death. Afterwards he avows contrition, and states that he was seized with a sudden frenzy. Nevertheless, even these last are not looked on with eyes of mercy in an Indian court; they are

usually put to death. Dr. Chevers is of opinion that a good many of the cases of murder by backing to death are committed! under the stimulus of intoxicating agents, although insanity may have existed beforehand. In Bengal, the practice of running a mok would seem to be almost as common as farther east. An up-countryman at Howrah, near Calcutta, in May, 1869, excited by jealousy, started off, and, before being stopped. cut down eleven persons. Sometimes the persons so acting are really insane, and have taken no stimulant.

A matter of some considerable importance, not only in India, but also in this country, is the effect of liquor on a weakened brain. Thus, in India, it is frequently urged by European soldiers when tried by court-martial for drunkenness, that a previous sunstroke or brain fever had rendered them unusually susceptible to the influence of wine or spirits; and so in this country a similar plea is often raised by those who have served in the East. Many strict officers ignore this plea; but, in the opinion of Dr. Chevers, it should not always be overlooked, inasmuch as such maladies not unfrequently leave behind thema morbid craving for stimulants; and he cites two cases which occurred in his practice as examples in point, one being a military man, the other a civil engineer, both between 30 and 40; both had suffered from the head, and both were attacked with cerebral symptoms in consequence of exposure to the sun, and in both the most troublesome symptom was an incessant demand for beer; both had been moderate men. They were sent to England, and one returned quite recovered.

One of the most difficult class of cases to deal with is that of religious monomania. In this country, it ordinarily assumes a melancholic form, not unfrequently with a tendency to suicide: in India it may develope itself in outrageous acts, and it is not always easy to say which are those of a monomaniac, which those of a fanatic with all his senses. One of the most horrible sects, which should, we suppose, belong to the latter division, are the Aghorpunts, who, professing to take everything alike, feed on what they first encounter : cooked food, ordure, or dead human flesh. For this last they seem, indeed, to have a certain partiality; but it is not certain that they ever commit murder for the sake of satisfying their appetites. Among this class the Thugs (worshippers of the goddess Kallee) ought to be included. All their murders were committed, so they said, under divine inspiration, insomuch that, when they began to exercise their craft, they had no care to remove the body-Kallee did so herself. But certain inquisitive Phansagars, anxious to see the goddess, waited until she should remove the body they had just slaughtered; but the goddess came no more, and ever after the Thugs had to secure their safety by disposing of their own victims.(b)

Feigned insanity is not by any means peculiar to India, and, allowance being made for the habits and customs of the natives, like means apply to its detection as in England.

THE WEEK.

TOPICS OF THE DAY. At a general meeting of the governors of the Westminster Hospital, on Friday, March 24, Mr. Francis Mason was unanimously elected Surgeon to the Hospital. Mr. Mason's election to the Surgeoncy of the Westminster is a fitting reward for good and earnest Professional work as Assistant-Surgeon, first during four years at King's College Hospital, and afterwards during four years and a half at the Westminster. At the same meeting of the governors, Mr. Richard Davy was elected Assistant-Surgeon to the Hospital.

We are glad to notice that the pupils of the Ecole de Médecine at Paris, last week ranged themselves on the side of order against the Contral Committee. They placed their services at

⁽a) "A Manual of Medical Jurisprudence for India, Including the Outline of a History of Crune against the Person in India." By Norman Chevern, M.D. Surqeon-Major H.M. Bengal Army, Principal of the Calcutta Medical College: Professor of Medicine, and Senior Physician, on the College Hospital, etc. Calcutta; Thacker, Spink, and Co. 17p. 861.

⁽b) Many very curious facts relating to Thuggee are contained in Captain Taylor's "Confessions of a Thug," a book now long out of print, and a copy of which we have failed to secure.

the disposal of the Maires or of Admiral Saisset, who was appointed to the chief command of the National Guards.

Medical Times and Gazette

The papers have again been full of arguments and assertions as to the mental and moral equality of woman with man in reference to the woman's suffrage question. That question we do not profess ourselves to be politicians or courtiers enough to discuss; we would only remark on the general question of woman's equality that it is a curious fact that, even in the callings which specially belong to women, few, if any, attain the highest degree of excellence. Stitching and shaping form one of the degrading employments to which custom has condemned women, say our enthusiastic reformers. But would any of these gentlemen consent to have his coat cut and made by a woman? How is it that men cooks are universally acknowledged to be the best? For every boy who is taught music, probably six girls are; but what woman has ever composed? And so we might go through the round of female employments and accomplishments. The fact is, there are certain things that women cannot do at all, and those things that she as well as man can do she does not excel in; but there are certain things which man cannot do at all, and which only women can do. But these are matters which require that combination of tender heart qualities with those of brain and hand which make woman the incomparable being she is. Still there are fields of exertion in which woman has a perfect right, and where she will meet nothing that will spoil or sully her higher nature. In these fields men will feel honoured by her presence, and, we may add, her rivalry. We can thoroughly endorse Lord Elcho's remarks in his recent address at the delivery of prizes in the Female School of Art :--

"It was a comfort to him that, in relation to the "romans' question, this was a school of art, and not the operative theatre of Guy's or St. Thomas's; for whatever might be his strong opinions with regard to woman's entry into other fields, are considered art was a field to which a woman had a fair right, and no man would dispute a woman's right to this field for the contract of the contract of

Mr. J. Norman Lockyer, F.R.S., is appointed Reade's Lecturer in the University of Cambridge this year. Mr. Lockyer will deliver his lecture in Easter term.

We regret to notice the death of Mr. R. Meldola, a Surgeon practising at Victoria-park, from an overdose of behoral hydrate. Mr. Meldola is said to have been suffering from diseased heart. The death of another Surgeon, Mr. E. C. Smallman, from an accidental overdose of chloral hydrate, is also published. The fact is that chloral hydrate has been taken and administered too indiscriminately. In overdose it is evidently capable of producing fatal results, and when its use is continued for a long time some good observers suspect that it may determine the occurrence of degenerative changes in some of the internal organs—e.g., the kidneys.

The Privy Council, whatever the meat trade may say to the contrary, are quite right in putting restrictions on the importation of dead meat from countries where cattle plague is raging. Cattle plague, we believe, was introduced into the Zoological Gardens during our English epizootic by the flesh of diseased animals. There is abundant other evidence that the disease may be disseminated by hoofs and akins, and it is at least tolerably certain that the mest of animals affected with rinderpest cannot be carried about and consumed without danger to man or beast.

FRIENDLY VISITS.

WHAT are friendly visits as regards a Medical Practitioner? Strictly speaking, all his visits ought to be regarded as friendly; if not, his patients labour under a grievous mistake. He/of all men, ought to be regarded in a friendly spirit. His object is to relieve pain, combat disease, and, if he can do no more, to smooth the passage to the grave; these, in the strictest sense of the word, are the visits of a friend. Where is the line to be drawn between a strictly Professional and a quasi friendly visit? Having faith in the honour and integrity of our brethren, we hesitate not to say, if they err, they err to their own disadvantage. No honourable man amongst us will ever take advantage of his position; it would be contrary to our notions of right and wrong, and, in the end, would tend to our disadvantage. If a patient asks you to dinner for the mere purpose of getting your opinion upon his case, he is bound to treat you Professionally; if he does not, he takes a mean advantage of you. Mr. Liston was once asked by a patient to take part in a hunting excursion with the hounds in a northern county: he complied. His opinion was asked in regard to a certain case: he advised amputation of a limb, performed amputation in his usual masterly manner, and—was reminded, when he claimed his fee, he was regarded "merely as a friend." Liston said to us, "I never again accept an invitation to be mounted as a friend." Radeliffe tells us that on one occasion a miserly old merchant attempted to steal his opinion with regard to his own case. "What shall I do?" said the patient to him .- "Why, sir, I should advise you to take advice"-a very proper response to the would-be-pauper patient. The lawyers are shrewder than we are in these matters. Mr. Fazarkley was once asked by one of his hunting friends what he would do under certain circumstances. "I think," said he to the inquiry, "I should defend the action." The action was defended, and defendant mulcted in damages and costs. "I lost my cause," said his hunting friend to Mr. Fazarkley, "by acting upon your opinion." "I don't recollect it," said Fazarklev. The vanquished defendant thereupon replied, "You gave me that opinion when we were riding together to meet the Pytchley hounds." "Oh!" said Fazarkley, "that was my travelling, not my professional opinion." It is scarcely necessary, we think, to draw a moral from these facts. It would be a consolation for us to know that our Professional brethren could draw a determinate line between what may be deemed strictly Professional and friendly visits. We have no doubt, however, that the balance will be in favour of our brethren, and we are glad to announce that, in a late trial in which this question was discussed, the judge gave his dictum in favour of the Medical plaintiffs, and totally ignored the defence of "friendly visits," on the ground that he could not believe that the members of an honourable Profession could ever be induced to make charges to which they were not justly entitled.

A "WRONG"-WHERE IS THE "REMEDY"?

THE Covic Econiuser reports the case of Cogan e. Spillane. It was an appeal from the decision of the Chairman of Quarter Sessions, who had awarded the three repondent 3t. for injuries abe custained by the falling of a timber about from the appellant's house in South Main-street. It transpired in the hearing of the appeal that, in the Court below, Dr. Holmes, who attended the respondent, refused to give evidence unless he got a few of a guines. The Chief Baron said the assistant-barrister had power to compel the Doctor to give evidence without a few, and, if he refused, he should have committed.

him. He (the Chief Baron) decidedly would under the circumstances. The report does not state whether Dr. Hoimes had received a guinea with his subporna. If he had, then, of course, he could be compelled to give evidence; if not, upon what grounds of law or justice could he be compelled to do so? In England, at all events, he could have successfully refused until the fee had been awarded him. Since writing the above, we have received a copy of the Cork Examiner containing a letter from Dr. Holmes, addressed to the editor, which, as it relates to a question of the most vital importance to the Profession, we extract in extense, merely remarking that we agree entirely in the opinions expressed by Dr. Holmes :-

"Sir,—I perceive in your issue of to-day some comments made by the Chief Baron in the appeal case of Cogan r. Spillane, with reference to my having refused to give evidence before

the Chairman of Quarter Sessions.

"The facts are as follows :- I attended for some time a Mrs. Spillane for an injury which she alleged she received by the falling of a spout. Subsequently I was subpensed by her attorney, Dr. Masgennia, and attended court. On my name being called I declined being sworn until my expenses were wait observations. being caused a declined being sworn units my expenses and paid, observing that I was put to great inconvenience and loss of time by my attendance. The Chairman asked plaintiff's attorney if she would pay me a guinea; the reply was that she could not. I then asked the Chairman permission to leave the court, which he at once granted. I was the greater part of the day in court, and in order at four o'clock to get through

my work before night expended nine shillings in car-hire.
"Now at that time I was in attendance on some persons about whom I was extremely anxious. There was no person to visit my dispensary patients, and I therefore laid myself open to a charge of neglect, and perhaps dismissal from my office by the Poor-law Commissioners, for which I fancy I would get little

satisfaction from any of the parties concerned.

"It therefore appears that a Medical man is compelled to neglect all business, set the lives of his patients at nought, attend court and give evidence in a case which has not for its object the bringing of a criminal to justice but the putting of

coject the oringing of a criminal to justice but the putting of money into the plaintiff spocket, or go to jail.

"I have the greatest possible regard for law and order, and believe it is generally admitted that members of my Profession are at all times most willing to assist in furthering the ends of justice; but surely the law as laid down yesterday by one of the most distinguished lawyers that ever adorned his profession, with regard to Medical witnesses in civil cases, requires the carnest consideration, not only of the Medical Profession, but also of members of Parliament with a view to its amelioration.—I am, sir, your obedient servant,
"William H. Holmes,

" Medical Officer of Cork Dispensary."

OPPOSITION TO THE SCHEME OF THE BOYAL SANITARY

COMMISSION. THERE was a well-attended meeting of the sanitary world, at the rooms of the Social Science Association, on Wednesday evening, March 29, to listen to a paper by Mr. Michael, criticising the scheme for sanitary reform propounded in the Report of the Sanitary Commissioners. The speaker found fault with the Commissioners for not having obtained more evidence, for not having sent commissioners over the country to investigate the question of boundaries, for proposing to employ the Poor-law Surgeons as local Medical Officers of Health, and the guardians as local authorities, for the undue preponderance given to the central authority, and for certain defects in the system of rating. After observations had been made by Dr. Stallard, Dr. Rogers, Dr. Farr, and others, Mr. Powell, M.P. one of the Commissioners, defended and explained their proceedings, and the Earl of Shaftesbury, who occupied the chair, summed up what had been said. His opinion, which was that of a majority of the meeting, was that, though the Commissioners' scheme might not be perfect, yet that it were better to accept an imperfect measure at once than to wait for a perfection which, after all, might be unattainable; that the Report was highly creditable to the zeal and industry of the Commission; and that its defects might soon be removed if there were a friendly conference of those in crested in the

GULSTONIAN LECTURES AT THE ROYAL COLLEGE OF PHYSICIANS, BY DR. GEE .- LECTURE III.

Much of the heat of the body, in its healthy state, being dueto oxidation processes going on in the blood, it was asked, with reference to the augmented heat of pyrexia, whether there was any reason to believe that these oxidation processes were augmented. The only data for a determination of this point were those afforded by injections of animal liquids into the bloodvessels. Not only pus and the fluids of inflamed tissues, but even an excess of healthy blood, thrown into the vessels, can set up pyrexia. On the other hand, copious venesection elevates the temperature, possibly because producing a rapid absorption of the tissue-juices, which are loaded with the effete products of tissue-change. The lesions which are directly dependent upon pyrexia were next considered. The glandular structures undergo the change which has been named clouded swelling, parenchymatous swelling, or albuminous infiltration. The muscles, both voluntary and involuntary, are similarly affected. The changes of the blood and nervous tissues are much less known; but there seemed to be reason to believe that the state which was named by the ancients putridity is partly a result of pyrexia. The catarrhal condition of the mucous membranes, and the injection of the skin, which attend pyrexia, were next dwelt upon. Both in natural and in preternatural heat of the body, a certain standard of temperature is maintained more or less accurately. The seat of this regulating function is not exactly known, but there are facts which seem to show that it is to be found in the cerebro-spinal centre. The statement of Tscheschichin, that section of the spinal cord is followed by depression of temperature, and section of the upper part of the medulla oblongata by elevation of temperature, has been disproved by Nannyn and Quincke, who have found that, provided the increased loss of heat be prevented, the temperature is raised by section of any part of the medulla spinalis or oblongata. It seems as if the temperature is raised in proportion to the height at which the section of the cord is made. There are, then, in all probability, certain fibres which pass from the brain down the cord, and which exercise some sort of control over the calorific processes of the tissues. When these fibres are divided, and the control thereby destroyed, the chemical changes are free to go on to their utmost in the part of the body affected, and so the temperature rises. In the last place, it was maintained that "fever" is a word of much wider meaning than "pyroxia," and should be defined so as to include the necessary antecedents, concomitants, and consequences of pyrexia. But inasmuch as we are ignorant of many of these things, a definition of fever at once precise and comprehensive is not yet possible. All the theories of fever which have hitherto been brought forward, err either by exclusiveness or by indefiniteness.

INQUESTS IN METROPOLITAN WORKHOUSES.

FROM a Parliamentary return just issued, it appears that during the year ended December 31, 1870, 418 inquests were held on the bodies of persons dying in workhouses in the metropolis. Of this number, 207 were on persons belonging to St. Pancras Workhouse. The total deaths from all causes were 6684, of which number St. Pancras contributed 425-no excessive proportion as regards "deaths from all causes," but suggesting two hypotheses with respect to the number of inquests: either that there must be in the St. Paneras cases an extraordinary difficulty in certifying the cause of death, or that throughout the rest of the metropolis many inquests are needed beyond those actually held.

ARMY MEDICAL DEPARTMENT.

THE death of retired Inspector-General of Army Hospitals J. Henderson, M.D., places it in the power of the Director-General to recommend another officer for the £100 per aunum good-service pension drawn by the deceased.

FEVER AND SMALL-POX IN GLASGOW.

Duano the week ending March 25 the births in Glasgow were 391, the deaths 371; the deaths from fever 17, from smallpox 6. The total number of small-pox cases known in the city was 144, and of fever 604. There was a slight decrease in both from the preceding week.

FROM ABBOAD.—"THE SITUATION" IN PARIS—THE WAR CARRIED INTO THE REALMS OF SCIENCE—PUBLICAT INFECTION.

M. De Raxse, one of the editors of the Gazette Medicale, speaking of the present state of Paris, observes:—

"If we could dissuis from our minds the sad preoccupations which besiges the mind of every citizen—of every Freecluman—we might find, in the present apathy and inaction of the

Parisian population, a very curious subject of study for the psychological observer. On Sunday week we are informed that, while the dispatches of the Versailles Government, and

the narrations of most of the newspapers, were carrying consternation into the provincial towns, the Parisians, taking

advantage of a fine sunshiny day, were, with their families

filling the promenades, the squares, and the most frequented places. The toilettes shone as they do on festivals, and the barricades, with the cannon which defended some of them, were visited very much as would be the booths and shops of a fair at its high tide. Next day, when we arrived from the country, business affairs had replaced the Sunday holiday, but there was still to be observed, in the most striking manner, the contrast which the aspect of Paris presented, as compared with the uncasiness exhibited, not without good cause, by every face in all the provincial towns we had passed through. We began, indeed, to believe as exaggerations the news which had reached us at 150 leagues from Paris, and to regard the reached us at 100 leagues from taris, and to replace so inhabitants of the departments as alarmists, when the noise of the fusillade, of which the Rue de la Paix was the theatre, almost struck on our ear. Heaven grant that this do not prove a preinde to yet more murderous collisions! In a recent paragraph, headed "The War carried into the Realms of Science," we adverted to the fact that some French savants had returned the honorary diplomas which they had in happier years received from the German academies and universities. Since then others have followed their example; and under the circumstances of the times, much excuse may be found for this invasion of the territory of science, which, in all former wars, has been regarded as neutral ground. Still more has this been the case, and yet with better reason, as regards Medical science, the votaries of which, even in the exercise of their calling, have often occasion to render mutual good offices to the subjects of the contending nations, and in some degree may be the means of smoothing asperities and of laying the foundation for future reconciliation. We therefore regretted much to find motions before the two bodies representing Medical science in France-the Academy of Medicine and the Society of Surgery-to the effect that all intercourse with Germany should be discontinued, and that all foreign Associates belonging to the Northern Confederation should be struck ont of the lists. What decision the Society of Surgery has come to we have not yet heard, but we are glad to say that the Academy of Medicine has refused its assent to so mischievous a procedure. It was M. Béhier who introduced the proposi-

tion to the Academy to remove the names of these Associates;

but M. Bouley, while agreeing with the proposer that the

Germans had utterly dishonoured themselves in the present war, denied that the Academy had any right to abolish a

title that had been acquired by science. "Science," he ob-

served, " has nothing in common with crimes, and so much the

worse for any sacants who may have dishonoured themselves by acts unworthy of science. This is a question of inalienable

right, which the Academy should respect." M. Verneuil,

speaking under the excitement of a recent visit to St. Cloud, where he had enough evidence, he said, of the most shameful

pillage and carnage, felt strongly that all intercourse with

Germans should absolutely cease; but he agreed with M. Bouley, that the Academy possessed not the right of erasing

the names of its Associates. On the motion of M. Barth, B.Rhice's proposition was referred to the Council to repert upon. M. Béchard, the Secretary, at the next meeting, reported the resolution arrived at, prefacing it by a few very senile observations. He said he fully appreciated and approved of the sentiments which induced Count Jaubert, M. Barth and others, to renounce the honorary titles which they had receive from German scientific bodies. These were personal and syntancous acts, which merited every praise—"Although," says M. Bélard—

"For my part, I should have been still more gratified; it, looking directly at the one in view, and addressing the sovereigns, princes, and princetets, who, after all, are alone responsible for the disasters which have been committed, there had been disdainfully returned to them those honorary badges which so many of you have accepted, some of which have been even solicited, and which cannot now possibly be worn without the most revolting inconsistency.

most reventing inconsists of the processing and the processing areas affair; for in accordance with it you would have to pass a resolution, not only as regards the present, but also involving the fature. Are you aware of who are the most its thus proposed to eliminate?—for such elimination, in order to be equitable, can admit of no exceptions. These are the mor you propose to suddenly expel from the Academy—Lichig, Yogoi, Etto-Witzer, Ghelsener, Ehrenberg, Jacobi, Bunseau, Vitchow, and Helmholtz. For my part, I do not believe in the moral right of proceeding to such an execution. It is to be believed—and with regard to some I know it for a fact—that almost all these sarets were, like cunselves, opposed from the beginning to this exercise. Let us consider what should be condemned, and proviets against what is insignitions; but let us now, more than ever, know how to moderate our passions, and if we wish to be strong, let us be just."

After these admirable observations, M. Béclard read the resolution which had been unanimously agreed to by the Council, to this effect:—

"The Academy, while participating in the sentiments of participating participation expressed by our colleague M. Behier, passes to the order of the day on the motion which he has proposed, but it series the occasion thus offered to it to protect, in the name of science, civilisation, and humanity, against the savage war which has been waged upon us, and against the bombard-ment of our scientific establishments and Hospitals."

M. Chatin proposed, as an amendment, that, without rendering the exclusion general, certain names should be struck out,
inasmuch as certain secasts who "hadquitted the sanctuary of
scienco" merited a more severe visitation. M. Magne, believing that many German secasts had basely abused the hospitatity accorded to them, demanded that their hostense
expinancy aloudd be stigmatised by severe measures. The President, M. Wurtz, seeing that the discussion had gone quite
far enough, put the resolution of the Council, and it was carried
unanimously.

The Académie de Médecine has resumed one of its discussions which have been so often interrupted and postponed. The present is on "Purulent Infection;" and as its commencement, now near two years since, has doubtless been forgotten by our readers, we may avail ourselves of a brief recapitulation furnished in the Gazette des Höpitaux, March 22. It arose on the occasion of M. Alphonse Guérin relating a case of purulent infection under his care, which was cured by large doses of quinine. The discussion which ensued soon passed from the consideration of the circumstances of the case into the general question of the physiological mechanism of the disease. M. A. Guérin expounded to the Academy a view that he had long held, in opposition to the older doctrines of purulent absorption or phlebitis, that purulent infection is due to missmatic intoxication. The special miasm which constitutes it may be either produced spontaneously and locally in the wound, or it may emanate ready-formed from a subject of an attack of the disease. The miasmatic intoxication would thus be entirely assimilable to that which constitutes marsh fever, yellow fever, and typhus; and thence the name of "surgical typhus" which M. A. Guérin gives to this affection and its treatment by quinine. M. Verneuil, on the other hand, while also repudiating all the old theories of the disease, denies its right to be considered a special disease at all. He looks upon it only as one of the modes of termination of the various accidents consecutive to wounds, this being, however, a special mode, a true traumatic septicemia resulting from the penetration into the economy, by means of the circulatory torrent, of a toxical septic substance engendered spontaneously at the surface of the wound, termed by him "traumatic virus

The theory of "surgical typhus," and that of "traumatic virus," were vigorously opposed by MM. Bouilland and Legouest, who also maintained that these differed little from views of the disease already entertained. What seems a pretty conclusive objection to either of them is their failing to account for the occurrence of pyremia in subjects having purulent collections without any communication with the external air, although that is regarded as the vehicle of Surgical miasm, and is essential to the production of traumatic virus. M. Chassaignae regarded the two theories as very much the samo with different names, and admitted the truth of neither. He regards it as an error, also, to confound purulent infection and putrid infection, although they both arise under the common circumstance of local suppuration. In reference to purulent infection, our attention should be turned to the amelioration of the condition of the wound by adopting the best modes of dressing, and carefully directing the course of the suppuration.

M. Bouley, on resuming the discussion, furnished some interesting remarks derived from the domain of comparative pathology. Describing purulent infection as occurring in various animals, he observes that the horse is strongly predispesed to it, his organism being little favourable to primary cicatrisation. His most simple wounds suppurate, and even the wound made by bleeding will only heal after having done 83. Purulent infection is relatively of frequent occurrence. The ox, on the other hand, has a great tendency to plasticity, his system being refractory to suppuration. Thus, when we wish to induce suppuration by means of the seton in this animal, we have to introduce corrosive sublimate. The pus which is produced is very creamy, and, contrary to what is observed in the horse, coagulation of the blood takes places very rapidly. The consequence is that purulent infection is not met with in the ox. The sheep has quite a different constitution, for, being very impressionable, it bears the effects of traumatism with difficulty, and there is but a feeble plasticity, with a certain tendency to septic accidents. Purulent infection would not be of rare occurrence in the sheep if it were more frequently the subject of Surgical operations, as the experiments of physiologists prove. The dog, again, is possessed of great plastic force; purulent infection is very rarely met with in him, although operations and experiments are so often practised upon him. The pig is another animal endowed with great plasticity, but, as obesity complicates his wounds, he is liable to some septic accidents, but not to purulent infection. But it is among birds that the plastic force is found developed in its highest degree. "The bird is a healthy animal ar excellence; and, as a general proposition, we may say that it never exhibits suppuration." The rabbit "is an animal calumniated by experimenters:" and then there are two kinds of rabbits-a fact which these experimenters should bear in mind. The warren rabbit comports himself differently to the cabbage rabbit; but yet it is always an animal predisposed to septic and purulent accidents. But among the various domestic animals it is the horse in which these accidents most frequently occur from organic predisposition.

M. Bouley also goes at some length into a consideration of the differences derivable from race, for which we regret we have not space. Then the locality upon which the operation has been performed exerts its influence, it being found, as a

general rule, that the chances of purulent infection are greater in proportion as the region which is the subject of the traumatism possesses a more perfect venous organisation. Thus, in the horse, the bulk of the cases of purulent infection proceed from wounds of the feet, or from phlebitis of the jugular. Another very important condition is the medium in which the animals live. Thus, the Hospitals at the veterinary school at Alfort, as decribed by Renault, were so constructed that the most skilful operators dared not perform therein the slightest operations even on healthy animals, and purulent infection induced ravages which cause Renault's recital at the present day to seem almost fabulous. Finally, the kind of traumatism has its influence on the production of putrid accidents-the more numerous and the more complicated are the wounds, the greater being the danger of purulent infection. The therapeutical conclusions which M. Bouley draws from his experience are-first, that we should endeavour to modify the organism by good diet, feeding the patients as well as possible, both before and after an operation-endeavouring to give a man, so to say, "the constitution of an ox. Besides mere food, actual tonics and generous drinks should be given, while tanaln and quinine may exert preventive power. The experiments of the Veterinary Professor Gohier prove that tannin exerts an incontestable power on the putrescibility of organic fibre. Secondly, we ought to place the subjects of operations in the best medium possible. "Nothing is so dangerous for them as the presence of other men, even of healthy men." Vegetation also exerts a beneficial influence, and, according to M. Bouley, perfect ideal Hospitals would be isolated dwellings placed on lawns in the middle of a park. The "haussmanisation" of Paris has rendered such erections in Paris impossible, and all ho can hope is that patients will never be placed in the gigantic new Hôtel-Dieu, which would be much better utilised in housing the learned societies, thus employing it as an instrument of science rather than of death. Thirdly, wounds should be rendered as simple as possible, and this should be sought by the extension of subcutaneous Surgery. Much would be done in preventing purulent infection could a limb be removed without the skin; but, in the meantime, we should make much use of detersive dressings, as phenic acid, alcohol, etc.

PARLIAMENTARY .- LUNACY REGULATION (IRELAND) BILL -- ADUL-TERATION OF WINES-MILK-EXPORT OF MEAT FROM PRANCE.

In the House of Lords, on Thursday, March 23,
The Lunacy Regulation (Ireland) Bill was read a second
time, Lord O Hagan explaining that it extended to Ireland. with some differences of detail, the reforms effected in England in 1853 and 1863. Lord Cairns recommended a closer imitation of the English system.

In the House of Commons, Sir J. Lawrence asked the Chancellor of the Exchequer whether the following order, issued by the Board of Customs on February 20, 1861, had been cancelled or altered:—No chemical or unusual preparations, such as tamin, ether, etc., for the purpose of fining or flavouring, may be added to wine in bond, unless the necessity of such addition is clearly proved to the satisfaction of the Board, and their special sanction obtained." Whether any proof is required by the Board of the necessity of such admixture, excepting the statements of the owners of the wines or their agents; and whether it be true that, for the purpose of fining, Spanish earth may be mixed with wines in bond without any restriction as to the quality or quantity, unless the operation is likely to cause an alteration in the rate of duty, in which case the Board's sanction must be obtained, but not otherwise.

The Chancellor of the Exchequer: In answer to the first

eart of the question of the hon, gentleman, I have to state that am informed by the Board of Customs that no such order as that mentioned has been issued, from which I infer that it has not been cancelled. (A laugh.) As regards the second part of the question, there is some proof required besides the state-ments of the owners and their agents. As to the third branch of the question, there is no order at all in existence regulating the quantity or quality of Spanish earth to be mixed with wine. Lord E. Cecil said: The President of the Poor-law Board is reproduced to have said." that, among the samples of milk which had been analysed, many were supposed to have been lowered by admixture, but nose to have been adulterated." I wish to know—I. What is the Poor-law Board's definition of adulteration. 2. Whether the President thinks there is any difference Transfer for a research unines there is any difference between the lowering of milk by admixture with water or any other liquid and ordinary adulteration. 3. Whether he is awaree that there is as much as two-quee difference per gallon between the contract prices of St. George's (Hanover-square) Union and some of the Esst-end Unions of London. 4. Whether he thinks that such a lowering of milk by admixture as these prices demonstrate is, or is not, a subject for inquiry,

with a view to applying a venedy.

Mr. Stansfeld said that what he intended to say in reply
to the noble lord a few days ago was, that he did not think the
word "adulteration" was correctly applied to the lowering or
impoverishing of milk. (A laugh.) It was a matter of opinion,
for instance, whether wine was "adulterated" by the admixture of water. But, be that as it might, what he had stated with respect to the samples of milk referred to in the Milk Journal, to which the noble lord had called his attention, was that, in his opinion, there was no justification for speaking of them as furnishing "an exposure" as to the system of contract in supplying milk to the metropolitan unions. As hon, gentle-— seypying misk to the metroposita unions. As not, genti-men were aware, articles of common consumption like milk varied very much in quality and richness (a laugh), not only that to noble lords and members of that House; and although he did not think a strong case had been made out in the present instance, he was ready to admit the present the present the present the present the present that the present the pre that it would be of service, not only to the public, but to the Boards of Guardians themselves, that some general inquiry should be made into their system of contract and method of purchase, and he had accordingly informed the noble lord that the subject should receive early consideration. On Friday,

Mr. Alderman Lawrence asked the Vice-President of the Council of Education whether his attention had been directed Council of Education whether his attention had been directed to a statement made at a meeting of the Metropolitan Meat and Poultry Market Association, on Tucsday last, that, in their opinion, the Order in Council of March 10, prohibiting the im-portation of fresh meat from France and Belgium, was a portained of unnecessary precaution, which was calculated to interfere injuriously with the supply of animal food to this country, and to materially enhance its price, more especially to

the poorer classes of the community.

Mr. W. E. Forster said he had seen the statement in the ne wapapers to which the hon, gentleman referred, but he could not help thinking it was very exaggerated and calculated to create unreasonable slarm. It was based on the supposition that the importation of all fresh meat had been prohibited by that the importation of all fresh meat had been prohibited by the recent Order in Council, but the directions given applied merely to beef and veal. He did not know whether it was thought to be an "unnecessary precaution" to limit the supply Council, after careful consideration, that it was aboulted necessary to take that precention with regard to the carrases of cattle. The cattle plague was still raging in France, and seemed to defy all the efforts which were being made there to put a stop to it. He was, however, convinced that there was no ground for apprehension that the price of meat in England no ground for appresentation that the price of meat in England would in consequence be raised. There was no reason to sup-pose that more would come to us this year than last; if any-thing, the quantity was, he believed, likely to be less. The number of cattle arriving from France and Belgium was also very small, and while he was of opinion that it was absolutely necessary to take the precaution in question, he was glad to think that its result would not be at present to interfere with the price of food. The regulation was obliged to be applied to fresh though not to salt hides.

WE (says the Builder) believe the benevolent individual who recently offered to expend £30,000 in the erection of a lunatic asylum for the benefit of the lower middle-class is proceeding to carry forward that purpose. We have also proceeding to carry forward that purpose. We have also authority to state that this same gentleman, who desires at authority to state that this same gentieman, who desires at present no personal publicity, is prepared to devote for public and useful purposes a sum equal to that given by the late Mr. Peabody, so soon as he can satisfy himself as to the best means remoony, so soon as he can satisfy himself as to the best means of effecting this so as to do the greatest public good, and to avoid the risk of pauperising classes who might not, in their present position, be eligible recipients in public opinion for such a grit.

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the undermentioned Districts.

4 (4	-	No	of C	men w	eek a	nding	
Districts.	18	133	¥	#	96	22	100
	Feb.	Fcb.	Mar.	Mar.	Mar.	Ker.	Mar. 25. Sent to Hospital.
	J.E.		_		-	-	-
WEST—	10	12	P	9	ş	. 2	
		12			-	1 . 5	-
	28	١	16	7	19	10	8
square .		14	16	7	19	10	
St. Margaret and St. John				27	F		-
Westminster St. James, Westminster	. 100	47	30	3	8	1.0	
NORTH-	. 14	8	3				-
St. Pancras	. 9	64	62	69	63	6.5	
Islington	. 36	31	62	23	34	49	24
Hackney	. 9	30	36	41	31	214	14
CENTRAL-	1		1				
City of London .	. 9	20	22	17	13	13	2
St. Giles-in-the-Fields	. 2	10	5	10	7	2	
Holborn	. 14	5	2	3	3	2	1
St. Luke's		9	20	27	18	12	- 8
EAST-		1					
Whitechapel	. 31	31	34	32	15	33	
Poplar	1 9	9	9	P	1	1 5	-
SOUTH-		1					
St. Mary, Newington	. 25	8	16	19	9	28	19
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St. George-the-Martyr		1 1	-	1	1		
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D 1	. ?	20	15	9	9	8	
	. 18	28	12	28	33	1 2	
Clapham	. 8	5	28	17	29	22	12
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Wandsworth	. 9	- 6	4	1	3	5	3
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Lewisham		2	1	16	2	1 3	-
Plumstead	. 9	4	î	1	4	6	-

* Return imperfect.

ABSTRACT OF THE CROONIAN LECTURES. DELIVERED AT

THE COLLEGE OF PHYSICIANS. By E. A. PARKES, M.D., F.R.S.

THE second lecture having been occupied with a discussion on the place of origin of urea and uric acid in health, the lecturer, in the third lecture, inquired how far the views previously laid down could be applied to the elucidation of disease. After a few introductory observations, pointing cut how little effect is produced on nitrogenous elimination by non-nitrogenous articles of diet, by alcohol, coffee, tea, etc., and how insignificant in this climate are the changes produced by varying meteorological conditions, he went on to say that the remarkable balance between the entrance and exit of nitrogen which is found in health is replaced in many diseases by an order of facts entirely the reverse. In fevers the exit no longer corresponds to the entrance, but is largely in excess; there is

In inquiring into the reason of this, the lecturer commenced with the best-ascertained fact in fevers, which is the loss of weight and progressive emaciation of all parts. How ratial this may be he illustrated by a pneumonic case of Happert's. in which, the entrance and exit of nitrogen being known, it

a complete dislocation between the two phenomena.

was calculated that 21 per cent. of the muscular structure was destroyed in five days. This emaciation of muscle is explained destroyed in the days. This emaciation of musicials explained by the discovery of Zenker of the rapid granular degeneration of the muscles in enteric fever, which has been confirmed by Buchanan and others in several diseases; the nervous tissue, skin, etc., also show signs of the same rapid degeneration. a contrast with these conditions, the lecturer cited the condition of the liver, spleen, and other glands; all are more or less swollen, rich in blood, evidently growing in many cases, and though degeneration may set in, this seems to be secondary.

Passing then to another order of facts, he stated that there was a largely increased outflow of nitrogen; and as an instance of an extreme case, he cited an observation of Huppert and Riesell, who, in a case of pneumonia, with an entry of only 9 grains daily, found an exit of 257 grains of nitrogen, or nearly thirty times as much. Where, then, did this large amount of urea come from, for it must have had some source? Evidently from the disintegrating muscles and nerves. And that it is so he considered proved by the fact that, in persons with little muscular tissue, and who had by starvation been brought to a point where there was little to waste, the urea in fever is sometimes little and sometimes not at all increased.

He then brought these facts together. In health the ures does not come from the muscles and nerves except in an inconsiderable degree; it comes from the albumen of the blood acted on by the glandular organs. In disease the urea must still be formed in the same way from the circulating albumen; but this circulating albumen is itself derived, not from food, but from the disintegrating muscular and nervous tissues.

In Voit's phraseology, the essence of fever consists in the usually stable organ-albumen breaking rapidly down and being converted into circulating albumen, which then undergoes the usual fate.

In this was the explanation of the increased urea of fevers, and not only so, but also of the very different and, so to speak, antagonistic condition of the muscles and nervous tissues on the one hand, and the liver and spleen and glands generally on the other. The first are disintegrating, and the last are grow-ing and being over-nourished.

By carrying on the argument he attempted to explain why

in some persons the liver and spleen were more affected than in others; why the spleen in old persons did not enlarge so much as inyoung persons, as shown by Sir W. Jenner's observations on typhus; why there were dangers from ineapability of the glandular organs to do the work thrust upon them. He then asked what is the cause of the rapid muscular disintegration in fevers, and referred it to altered nervous

influence, and probably to some change in the inhibitory nerves. He regarded this, however, as a problem for the future. After a few words on the cause of the relative excess of uric acid in a new worsh on the ranke of the relative access or the facility of the control of the relative access of units and the control of the relative access of units and the access of units and the control of though perhaps all difficult points could not be explained, the immediate dependence of pyrexial heat on increased chemical change was by far the most probable explanation.

The best diet in fevers was then discussed, and with some hesitation the lecturer considered that the wasting nitrogenous tissues could not be fed, and that to give large quantities of nitrogen was merely to still more overtax the liver cells. On the contrary, fats and starches would lessen emaciation and prepare the way for the nitrogen when the organ-albumen could be again formed.

The elimination of nitrogen in the afebrile diseases was next considered, diabetes mellitus and tetanus being chiefly discussed.

In diabetes there is generally an immense excretion of nitrogen, but this is largely dependent on the excessive diet; Gachtgens' cases, the exit, independent of food, was increain each instance thirty grains daily over the excretion of a healthy person on the same diet. In diabetes, then, there is a breaking down of the tissues as in fever, and, in fact, Petten-keefer and Voit consider the essence of diabetes to be, not in the sugar-making, but in the peculiar condition of the albumen of organs, which tends to disintegration, approaching in this to the idea of Prout, who thought an ureal might precede a arccharine diabetes.

In tetanus the lecturer denied, from the observations of Senator, that there was any increased elimination of nitrogen, but stated that the observations on tetanus were in accordance with the experiments on exercise in health.

In a few words of recapitulation, the lecturer then summed np his conceptions of ureal formation. He repeated that it was not in the great nitrogenous structures of the muscles or nerves, and perhaps not in the nitrogenous framework of membranes and cells, that urea and uric acid were directly formed. These nitrogenous structures, when growing in youth, or repairing in old age, are able to attract albumen from the store in the blood, and thus to increase in size, or to replace what has become effect. And thus the fact is accounted that the composition of nerves and muscles so closely resembles that the composition of they appropriate. Then, when, during or after use, a portion of this stable albumen of the organs loses after use, a portion of this stable albumen of the organs loses its stability, and passes into a different physical state it, becomes unfit for function, cannot contract or feel, and is detached and becomes circulating albumen. Then it is appropriated by the cellular organs; perhaps in part nourishes their framework, or furnishes their peculiar secretion, and in part splits up into urea, uric acid, and other substances. youth, when the tissues are growing, the power of attraction of the organs for albumen is greater than that of separation: in completed growth they balance; in old age the power of attraction-i. c., of repair-is gradually lost. The organs most independent of the nerves retain, as a rule, their power longest.

This theory explains the phenomena of starvation when urea, bile, etc., continue to be found to the last; because the urea, one, exc., columne to oe touch to the last; because the slowly distinct grains can still supply food to the glands. In many of these matters a great parellelism between healthy and diseased nutrition could be perceived, and it was possible to hope that before long we should be able to comprehen once clearly the intrinsectes of healthy and diseased nutrition, and to make a still better application of our knowledge for the mitigation of suffering and the relief of man's estate.

REPORT OF THE ROYAL SANITARY COMMISSION.

No. III.—PRESENT AND PROPOSED LOCAL AUTHORITIES. NEXT after the confusion and incompleteness of the existing law, and its optional application, the multiplicity of local authorities is found to have been a main cause of failure in the past. It appears from the Report that-

"There are upwards of seven hundred districts, urban and semi-rural, which by councils, commissions, or elected boards exercise the powers of the Public Health and Local Government Acts. A comparatively small number of towns are still governed by Local Improvement Acts alone. But these towns, as well as all boards of guardians and vestrics, have respectively the powers conferred by the Nuisance Removal, Sanitary. and Sewage Utilisation Acts." Notwithstanding, however, this wide application of sanitary statutes, there are still many places with very defective sanitary government, and still more with practically none at all, owing to the defective exercise of the powers which the law confers.

In practical working, each one of us must have realised that, beyond the ignorance of the law, an element eminently calculated to negative any effort to remedy an obvious abuse or defect is the difficulty of ascertaining to whom to apply.

The present game of cross-purposes arises principally from the fact that each group of Acts has designated a new authority, the fact that each gloup of the particular purpose of that group.

Thus, the administrative body under the Local Government
Acts is called the "Local Board"; the Nuisance Removal Acts assign the sanitary functions connected with nuisances to a local board, or, in rural districts, to the board of guardians, under the double designation of "Local Authorities," or "Nuisance Authorities"; the Sewage Utilisation Acts and the Sanitary Act of 1866 invented the new name "Sewer Authorities"; whilst the carrying ont of the Diseases Prevention Acts is entrusted, according to circumstances, to the guardians of the poor, the overseers of the poor, or the "Nuisance Authority. Intricate legal responsibilities being attached to so many various bodies, or, more confusing still, to the same under different names, doubt, as above stated, constantly arises as to where the responsibility or power actually lies. For result we find either inaction, litigation, or the frustration and abandonment

of public works already attempted.

But while pointing out the inconvenience and disastrous results arising from the confusion of local authorities, the Commissioners are careful to avoid even the appearance of a desire to obliterate the principle which has given those But the

authorities existence. They attach immense importance-some may be inclined to think undue importance—to the English theory that the executive should be as local as possible.

"The principle of local self-government has been generally recognised as of the essence of our national vigour. Local administration, under central superintendence, is the distinguishing feature of our government. The theory is, that all that can should be done by local authority, and that public expenditure should be chiefly controlled by those who con-tribute to it. Whatever concerns the whole nation must be dealt with nationally, while whatever concerns only a district must be dealt with by the district."

The Report shows that the recommendation for little, if any, deviation from the principle which leaves the administration in local, rather than in central, hands is founded, in part, on a review of the operation of the French plan. A comprehensive sketch of the sanitary arrangements of France, and of the working of the Conscils d'hygiene, is given in the report, and,

at first sight, seems to commend them for imitation.

Commissioners feel bound to sum up against the Imperial system, which they do in these terms:

"The appointment of the head of each local sub-division down to the commune, is vested in the central government, and in this manner the agents of the government are brought to administer the affairs of the remotest and smallest locality. The symmetry of the plan seems to be perfect; but it fails in The symmostry of the pain seems to be persect; out it yous in practice, retain as it does not the central poneer only, and being wholly wanting in that pervading spirit in which consist local energy and national life. Wor does the Report fail to show the lessons to be learnt from a country which has developed English institutions in an entire scheme of government, lakl down by founders of an experience already matured, when they took the work in hand, and has not built up, as in our scheme, an aggregation of scraps of tentative and casual legislation. From New England, the Commissioners admit -" We may gain some hints for simplifying our old and complicated institutions, even from their translation to a new theory of government, widely as the theory of government in England differs from that which exists in America. By our constitution the Crown is invested with the whole executive, which is locally administered everywhere in the name of the Sovereign. The sovereignty of the people is the adopted idea of New The sovereignty of the people is the anopieu area or new England government, and the popular power collects itself gradually to the Tresidential head. But, whether derived from the centre, or culminating in it, local government is the essence of both schemes." But, if not to France, neither to America are we encouraged to turn in our search for a model on which to found a sanitary system. After a short analysis of the American plan the Report thus disposes of it:—

"The organisation of local government is very complete, though the working of it seems to be, from various causes imperfect. Streams near manufacturing towns are much polluted. and overcrowding of houses is unchecked except by occasional penalties. In some particulars the sanitary regulations are extremely strict, but they do not appear to be rigidly enforced."

The Report, in effect, if not expressly, affirms the following propositions:—That much of the past defect in our sanitary system is due to the confusion of local authorities, and to the want of coincidence in the area of districts for various sanitary purposes. For the latter evil, the statute proposed by the Commissioners suggests the remedy, and their views in regard to the former they have thus embodied in a resolution:—"That there should be one local authority for all public health pur-poses in every place, so that no area should be without such an

authority, or have more than one."

The question being thus narrowed in its issue, the point to determine becomes, not whether we shall have local authorities. but of whom those local authorities shall consist, bearing always in mind the fundamental requisite that there shall be always in mind the funcamental requisize that there bear to one such authority for all public health purposes in every place, and in no place more than one. Moreover, what it is desirable to secure is that particular functions of sanitary local government shall be distributed in a more effective manner. as far as possible, this shall be done through existing institu-tions. That, thus, the machinery which is already provided may be better utilised -homogeneous subjects may be no longer scattered under different authorities; and that, where a new or intervening institution may be required, it may be attained rather by the employment of what is ready to hand than by innovation, or the creation of new means.

In a new country, not already possessing territorial divisions, the first step would, of course, be to settle administrative areas; but in an old country like ours, possessing authorities already

too many and complex, the first consideration must be given to those which exist. It then becomes necessary to ascertain whether any of them are such as can safely be trusted to administer the amended law. For convenience, therefore, if not from any conviction that their functions have in the past been discharged in a worthy manner, the Commissioners reco mend that certain of the existing bodies should be saved and employed as urban authorities. The detailed recommendation is that the urban authorities should be as below:

In boroughs and districts under special Acts the Town Council, or, where there is no Town Council, the body administering the local Act; in other boroughs, the Town Council; in districts which have adopted the Public Health Act, 1848, or the Local Government Act, 1858, but which are not boroughs or under local Acts, and in other places sufficiently populous to need an urban authority, au elected local board. In places aiready formed into "special drainage districts," under the authority of the Sanitary Act, 1866, and the Sewage Utilisation

Act, 1867, the inhabitants are considered to have given, by erecting such districts, proof of an active and intelligent spirit entitling them to retain their powers. Their independent existence it is, therefore, proposed to preserve, but to add to their present powers those of the local authority under the new statute, and to constitute their districts "local board" districts. Adopting the above as the suitable authorities for com-

munities more or less urban, the Report proceeds to the suggestion of those for the rest of the country. The Commissioner summarily dispose of three out of the four available authori-The four are-magistrates, highway boards, vestries, and boards of guardians. The magistrates are condemned as not being representative; the highway boards as not properly equipped. Vestries are thus dealt with—"The last difficulty (their want of equipment) would alone suffice to restrain us from recommending vestries as the rural authority. strain us from recommending tests of the compation or pay A small country parish could not find either compation or pay a color functionaries. The for Medical officers, inspectors, and other functionaries. powers under the Sewage Utilisation Acts, given to vestrics as sewer authorities,' have been productive of little but disappointment, and there is no reason to hope that new and amended powers would be more efficiently exercised than tho To set up vestries as authorities under the new statute d involve a rare combination of inconveniences. For any would involve a rare combination of inconveniences. practical purposes of administration, they cannot be said to exist in very many places. To set them up would therefore be, in effect, though not in name, the unnecessary constitution of a new authority, or the permanent establishment of one already condemned by experience.

This exhaustive process leaves boards of guardians as, in the opinion of the Commissioners, the most fitting rural authority, and as possessing, in addition, the following recomauthority, and as possessing, in admining no collowing recom-mendations:—They are representative, and already exist throughout the country. They have a complete organisation and staff, and, through their Medical officers, possess a know-ledge of the state of discusse. It is found that communications, lodge of the state of discase. It is found that communications, which under the proposed plan would be rendered unnecessary, are continually passing between the Poor-law and the Sanitary authorities, and it is considered that, within certain limits, the

same staff may render assistance in both services.

But in order to render the guardians more fit for the work, it is proposed that their tenure of office should be assimilated to that of the members of local boards. In the latter each member serves for three years, one-third retiring annually. By this tenure a member has an opportunity of becoming acquainted with the duties of his office, whilst the constant entrance of new members gives fresh life to the whole. body of so fluctuating a character as results from annual election could not have that permanence and steadiness of purpose without which great works can be neither designed nor carried out. A like change has also been strongly advocated of late years as likely to improve the administration of the poor-law.

To meet cases of failure to elect, provisions are proposed similar to those in the Education Act, 1870, under which, should no election be held in the ordinary manner, Government is enabled to appoint members, and to remunerate them from the rates. In the elections, the numbers of votes should rise,

according to the value of property, to a maximum of six votes for property having the rateable value of 2750.

We conclude this sketch of the grounds upon which the Commissioners have condemned certain of the existing authorities, and of the reasons which have governed their selection of others, by quoting their resolutions on these portions of the

"That, from the time at which the new statute shall come into operation, it is expedient that town councils, improvement commissioners administering special Acts, and local boards, each within the limits of the respective jurisdictions from time to time assigned to them, and guardians of unlone in all other places, should be the sole local authorities for administering the

provisions of the new sanitary law.

"That it is desirable that the members of all local health authorities (with the exception of the cx-officio members where guardians are such authorities), should be elected, and should retire by rotation; and that the provisions in the new statute, as to the number and qualifications of the members and electors, the scale of voting, and the mode of election, should be substantially the same as is the case now under the Public Health Act, 1848, and the Local Government Act, 1858.

"That where guardians are the local health authority, it is desirable, in order to provide for the continuity of such anthority, that the guardians should be elected for three years, with fit provision for the annual retirement of a part of the

board."

(To be continued.)

SUMMARY OF EXPERIMENTS ON THE INFLUENCE OF SNAKE POISON.

By J. FAYRER, M.D., C.S.I.

(From the Indian Medical Gazette.)

THE experiments, of which this is a summary, were commenced in October, 1867, and have been continued as regularly since at such intervals as time and other and more important avocations permitted. My object has been to determine, by actual observation, the effect on life of the poison of the venomous snakes of this country, and to test the value of remedies, whether internal or external.

So many absurd ideas on the subject prevail, that it is desirable to know the real truth, not less with reference to the actual modes operandi of the poison than to the value of the many vaunted antidotes. The results, I regret to say, tend to show that in the present state of our knowledge we can do little to counteract or neutralise the action of the poison; but what may be expected from treatment I have endeavoured to show.

As to antidotes, I would speak with reserve on the subject of possible future discoveries; my experience does not encourage me to hope that we shall discover anything that can be regarded as an antidote, such as is generally meant by that term. considering the imperfection of our knowledge on this and kindred subjects, I would do naught to deter or discourage others from further investigation.

My personal experience is derived from the action of the

poison in the lower animals, and a few cases in man; the antagonism of the venom to the vital forces is shown in one as well as in the other, and is no doubt subject to the same laws. The deductions from one are applicable to the other.

The greatest care has been observed in all the experiments-

and most of them have been often repeated—to exclude, as far as possible, sources of error, and to obviate generalisation from

insufficient data.

Almost every experiment has been witnessed by competent observers, to whom I am much indebted for their assistance, and for the additional value which their presence attaches to the validity of what was done.

The object of investigation has been the simple truth. I can safely say there was neither foregone conclusion to maintain

nor theory either to support or oppose.

The snakes with which the experiments have been conducted were: — The varieties of Naja Tripudians or Cobra; the were: — In Variences of Neja Impunine or Coora; sue Ophiophagus Elaps, or Hamadryac', the Bungarus Faseintus, or Sankni; the Bungarus Ceruleus, or Krait; some of the Hydrophide; the Daboia Russelli; the Ebhis Carinata; the Trimersurus Monticola. And in the case of the Calophides and the other Crotalide, I have referred to the experiments

of others, not having had opportunity of testing them myself.

The living ereatures experimented on have been the ox, horse, goat, pig, dog, cat, civet, mongoose, rabbit, rat, fowls, kites, herons, fish, innocent snakes, poisonous snakes, lizards,

frogs, toads, snails.

Frogs, toads, snaus. The symptoms produced by the poison, both constitutionally. The symptoms produced by the poison, both constitutionally constitution of the blood has also been examined, especially with reference to structural changes; and for this part of the irrestigation I have been much indebted to Professors Partridge, Evart, W. Palmer, J. Anderson, and Dr. Douglas Cunningham.

In point of relative deadliness, I should be inclined to consider that the cobra, ophiophagus, and daboia are very nearly on a par. They are quite capable of destroying a full-grown on a par. dog in half an hour, sometimes in much less time; and very frequently, I believe, man has succumbed within an equally

frequently. I believe, man has succambed within an equally short period, though generally the time is much longer. The bungarus ceruleus is, I believe, just as deadly, but apparently does not kill quite so quickly. The bungarus fasciatus is less fatal, and kills less quickly than the bungarus ceruleus. The cebis, if one may credit the reports from Scinde-and they are confirmed, to a certain extent, by Major MacMahon, Deputy Commissioner of Delbi-is also a very leadly snake. It destroys life rapidly in small animals, but from its small size it is perhaps less likely to be fatal to man, though, from what I have seen of the effects of its poison on pigeons, forely, and dogs, I should regard it with peculiar

of the Hydrophide less is known, but the few experiments I have performed, and those by Mr. Stewart, prove that they are very fatal, and I should think human life would be in great danger from their bite. The Calophidea and Crotalide of Hindustan are certainly

not so deadly as those I have mentioned, and though capable of inflicting a painful, and in some instances, no doubt, a langerous bite, they are not so much dreaded as the other makes.

There are differences in the symptoms produced by the poisonous bites of the different Thanatophidia, but none of any great oss butes of the different Inanatophida, but none of any great physiological or pathological limport. In some cases convulsions are more marked, and in others death is preceded by a more marked appearance of lethargy. In some, as in those of the cells, the local symptoms are peculiarly severe, in others less so. But the differences are more of degree than of kind. all point to exhaustion and paralysis of the nerve-centres—the sources of the origin of vital force—every function fails rapidly, and vitality is soon extinct.

Local paralysis of the bitten part, great depression, faintness, exhaustion, nausea, vomiting, hemorrhage, relaxation of the sphincters, involuntary evacuation, not unfrequently of a sunguineous or muco-sanguineous character, precede the complete loss of consciousness, and after this convulsious occur just

before life ceases.

The post-mortem appearances frequently reveal simply nothing except the marks of the fangs and the slight ecchymosis about them; or if the creature have survived some hours, infiltration, and, perhaps, incipient decomposition of the tissues. The lungs are not generally congested; the heart is not generally overloaded; the viscera look natural enough; death is not tracesble to special disturbance of any one great function, such as respiration; and the blood in the cases of the lower animals, certainly (and if in them, why not in man !)(a) nearly always coagulates firmly on removal from the body, after death from poisoning by the colubrine snakes. But in death by viper poisoning it remains permanently fluid. The cause of this I am quite unable to explain, but there can be no doubt of the facts as regards the lower animals, for they have been proved by often repeated experiments.

From experiments I have arrived at the following conclusions : - Snake poison acts with most vigour on the warm-blooded animals; birds succumb very rapidly; a vigorous snake can

destroy a fowl in a few seconds.

The power of resistance is generally in relation to the size of the animal, though not altogether so; cats, for example, resist the influence of the poison almost as long as dogs three or four times their size.

The cold-blooded animals also succumb to the poison, but less rapidly. Fish, non-venomons snakes, mollusca, all die. So far as I can decide from experience, the poisonous snakes are not affected by their own poison—i.e., a cobra may bite itself, or another cobra, with no evil result.

The less are probably affected by the more poisonous snakes e.g., the bungarus seem to be affected by cobra poison,

though slowly.

It is possible that they can all to some extent affect each other, though infinitely less than other animals. In many of the various experiments I have performed, the cobra, daboia, and krait did not appear to be able to poison themselves or each other. Some of the experiments render this doubtful, and seem to show that a cobra or daboia may poison a krait,

(a) It is to be noted that in most recorded post-unstrue reasonatations of bunan belong who have died from smake-like (whether collisities or viperine) the blood is noted to have remained fluid after death. I caused recorded that with the condition of the blood in animals, which is, as I have stated, congulable after death from rolubrine poisoning, fluid after death from right; priring poisoning. Further examination is needed:

or vice versi, but that they escape more frequently than they

Snake poison is absorbed through delicate membranes. It is deadly when applied to a mucous or serous membrane, to the stomach or the conjunctiva. The idea that it is only capable of absorption by direct injection into the blood is erroneo

The blood of animals poisoned to death by the colubrine snakes congulates after death. That of animals poisoned by

the viperide remains permanently fluid.

The bolles of animals poisoned by snakes are eaten with impunity by man and animals. I have had repeated proofs of this. The fowls and pigeons killed in my experiments were always taken away and eaten by the sweepers who were present, and who sought them greedily. They were not upfrequently given to dogs or cats; no harm followed.

The blood of an animal dead from snake-poisoning is itsef oisonous; if injected into another animal it destroys life. This shows the intensity of the poison: a drop or two diluted with the blood of a fowl or animal renders the whole poisonous. Venomous snakes, though not at all, or very slightly, affected by snake poison, are very susceptible to other poisons, such as atrychnine or carbolic acid. The latter destroys them very rapidly, and they seem to regard it with peculiar aversion. Poisonous snakes are not, as a general rule, very aggressive, except, perhaps, the echis. They seek to be left in quiet, to be let alone. They bite only if disturbed or irritated, and even then they often will not bite, but make one or two strikes at the enemy as if to frighten it.

In my experiments, I had always the greatest difficulty to get the cobra, krait, or daboia to bite voluntarily. An animal may remain in a cage or box with a cobra or daboia a very long time before it is injured, and perhaps, after all, it is taken out untouched, even after trampling on and bruising the snake, in the efforts to escape from its enemy, which is as much fright-cased as itself. There is much hissing and demonstration of attack, but frequently nothing done. If presend and over-teneed, they bite at last, and if they insert their fangs and retain their hold, the bite is generally fatal.

The cahis, however, will strike and mortally wound a fowl or small animal directly it approaches it, and its dart is so rapid

that it is searcely seen.

Snakes frequently strike, and even wound, without poisoning, or very slightly so. The fang merely scratches and makes a tear, but if inserted and retained for a second the poisonous bite has then been inflicted. Of course, any abrasion or scratch, however trivial, may be dangerons, as some of the virus may be inoculated or shed over it, probably not enough to kill, but sufficient to cause dangerous symptoms.

A snake that has bitten often, or that has very recently eaten, or that has been long in confinement without food, is less dangerous than others; its bite may be almost harmless, though not always so: a dabois that lived a whole year in a cage without food, was deadly a few days before its death.

The popular notions as to the effects of the so-called anti-Interpopular notions as to the estects of the so-cancel anti-dots art, I believe, erroneous; such for the most part being utterly powerless or inert. The ligature, excision, or cautery (if applied in time) are the only rational remedies that can be of avail in a really poisonous bits. Others are recovered from by the inherent vigour of the person bitten, aided by rational treatment, support, stimulants, and possibly to some extent by arsenic, iodine, bromine, or potass, or others of the many remedies recommended; but as antidotes in the ordinary acceptation of the term, even these, I fear, are no better than others.

The poisonous snakes, when they either shed or lose by accident their fangs, regain new ones in from a few days to a month or six weeks. An echis was refurnished with fangs, firmly anchylosed to the maxillary bone, on the third day after the removal of the former ones. If the whole mucous capsule be removed, and the maxillary bone injured in extracting the fangs, the reserve teeth already developed and the germs are also destroyed, and no new fangs are reproduced. This is often done by the snake-catchers, but when imperfectly, and the reserve fangs and germs not destroyed, fatal accidents have occurred from the unexpected reappearance of fangs.

Sonkes east their epidermis frequently; the colors and krait once or twice in a month, but the cehis I have kept for three months without its changing its skin. Snakes will live months without food or water. A daboia lived for one year without food. It mouthed frequently, became very thin, but it was active and poisonous to the last.

I conclude the summary by remarking that I feel thankful that I have brought this long series of experiments to a con-clusion without any secident of a serious nature to those con-

cerned in them. The constant manipulation of excited and vicious venomous snakes is a service of danger, and one in which we could hardly expect to be long engaged without some casualty. I am happy to say that only on two occasions was casuarty. I am nappy to say that only on two occasions was there any cause for anxiety. In the first, one of my assistants had a small quantity of cobra poison projected into the eye. Immediate ablution and careful avoidance of rubbing removed it, leaving only a temporary congestion and weakness of eye.

In the second case, my principal snake-man was bitten by an echis in the thumb; immediate excision and cauterisation of the part was had recourse to, and no evil results followed.

REVIEWS.

Lectures on Obstetric Operations, including the Treatment of Hermorrhage, and forming a Guide to the Management of Difficult Labour. By Robert Barnes, M.D. Loud., F.R.C.P., Obstetric Physician to, and Lecturer on Midwifery at, St. Thomas's Hospital, etc. Second Edition, revised and corrected. London: J. and A. Churchill. 1871. Pp. 508.

Dr. Banks's Lectures on Obstetric Operations were first presented to our readers in the pages of the Medical Times and Gazette three years ago. The judgment of the Editor, at whose request Dr. Barnes contributed them to our columns, was speedily upheld by the approval of the whole Profession in England and America, and the republication of them in a separate volume soon followed as a matter of course. separace votume soon toutowed as a matter of course. The first cition was exhausted in little more than a year, and we now larse a second, enriched by the addition of lectures on some of the conditions which reader labour difficult or dangerous, which had not appeared in the first issue.

The author tells us that, instead of writing a treatise on

obstetrics as a whole, he has preferred to take one branch-tho nature, causes, and treatment of difficult labour. He has studied and described the different forms, the ways of Nature in dealing with them, and the indications to be gathered from this study of the best mode of helping Nature in her time of need; he has endeavoured "to place upon exact foundations the powers and applications of the instruments and operations used in obstetries;" and, above all, to lay before the Practi-tioner, not merely the routine teaching of text-books, but the practice of the best and most energetic obstetricians, which is always more bold and more fertile in expedients than the tame conventional rules of formal teaching.

conventional rules of formal executing.

As for the general character of the work, it is needless to
say that it is handsomely got up, clearly printed, and abundantly illustrated. The style is good manly English; the
distribution of the matter clear and logical; and the illustrations all new, original, drawn, for the most part by the author's own hand, from cases within his experience, and from his studies of the mechanism of parturition under difficulty.

The author devotes his first lecture to a general account of Obstetric Instruments and Operations, in relation to the various conditions which demand them; he describes the best and most convenient models, and the "bag" which, after his example, has become the common mode of carrying them and certain selected "The absurd dread of possessing powerful instru-ong," he says, "been the bugbear of English midmedicines. ments has long," he says, "been the bugbear of English mid-wifery. It has been sought to make an instrument safe by making it weak. There can be no greater fallacy," This especially refers to the forceps. This lecture winds up with some remarks on the hand as an obstetric instrument. perfect, he thinks, must have been the chirurgia, the dexterity in manipulation, of the fathers of the obstetric art, seeing that they did many things with the hand unaided which we now do with various weapons. Dr. Barnes remarks, too, how a man's practice is often determined by the accidental perfection of, or familiarity with, particular instruments, and how one instrument displaces others. The man "who has only reached that stage of obstetric development which is content with a short or single-curved forceps will be armed with a good perforator and crotchet. He cannot fail to acquire skill and confidence in embryotomy, and greatly to restrict the application of the Again, the perfection given to the cephalotribe on forcers. the Continent causes cephalotripsy to be preferred to crani-otomy. The long forceps tends to displace embryotomic instruments; yet it is eminently desirable to have the best means of bringing a child through a contracted pelvis, and so to minimise the necessity of the Cæsarian section. "Our aim should therefore be to get the most out of all our instruments, and to

to make each one as good of its kind as possible."

Three lectures then follow on the Forceps, with sufficient

preliminary notice of the lever and filled. It needs earsely be said that the author means by the word forceps the long, double-curved instrument. "I have," he says, "described the short, single-curved forceps in deference to a still common prejudice, and because many men possess only this instrument." He is most emphatic in his detunctation of the idea of allowing a "head delayed by slight disproportion at the brim" to be delivered by perforation for fearor the long forceps. "If," he says, "we rest satisfied with the short forceps of Deuman, we have a febble tractor, a feeble lever, and an instrument destitute of compressing force—an instrument whose powers of by the way, that although he gives the rule to be powered down one after auchter by systematic writers, he frankly declares that Experience, in this as in other cases, sets at nought the refinements of theory, and clears out for herself a straight path through the cobwebs weven in the closet. Ramabotham and Roberton are quoted as applying the blades on the sides of the privis; and, to our knowledge, there is many a Practitioner who would have been conforted had this rule been published thirty years ago. The rule of waiting six hours with an impacted head there using the forceps is also quoted to be constant.

demand.

With goard to the forceps (i.e., the long), every step of its institution is carefully described, and illustrated by disciplination of carefully described, and illustrated by disciplination and the state of the period of the period

We must not let our readers suppose that the mechanism of obstruction to the birth of the child and relief by instruments is all that is to be found in these lectures; on the contrary, we recognise the Physician and physiologist in every page, and the description of those cases is fully given in which the difficulty depends on nervous or muscular derangements with the various manouvers and methods of treatment but, with the various manouvers and methods of treatment but, with the various manouvers and the indiarables but, with the various manouvers and in the property of page and other means of dilatation which have been invasted or perfected by Dr. Barnes is the property of the property o

We must leave the forceps with the quotation of Dr. Barnes's opinion, "that in no respect has modern midwifery given more satisfactory evidence of progress than in the extending practice of applying the forceps to obviate delay in the second stage of labour."

Important, however, though the forces be, it is less of that turning, of which Jr. Barres asys — "No other operation is capable of oxtricating patient and Practitioner from so many and so various difficulties. It is difficult to exaggerate the importance of carrying to the utmost limit the perfection of this operation. Yet the text-books exhibit a very inadequate appreciation of the subject. Turning by the feet was once said, not inaptly, to be the master-stroke of the obstetric Practitioner; and still the operation was very inappreciated by the state of the obstetric Practitioner; and still the operation was very inspected, the obstetric Practitioner; and still the operation was very inspected, the obstetric Practitioner; and still the operation Having defined it as "including all the proceedings by which the position of the child is changed in order to produce one more favourable to delivery," he sets to work methodically to investigate—First, the normal position of the fortian in there, and the conditions that determine it; and here he lays atrees on the difference between the physical properties of a child living and of one dead and the produce of the properties of a child living and of one dead and the physical properties of a child living and of one dead and the physical properties of a child living and of one dead and achieved the properties of the child with the same and the properties of the child with the same and the properties of the child with the same and the properties of the child with the same and the properties of the child with its back to the front of the womb. Next, Dr. Barres reviews the causes of abnormal positions; and thirdly, the useriae cavity as readering probable the position of the child with its back to the front of the womb. Next, Dr. Barres reviews the causes of abnormal positions; and thirdly, the useriae cavity as readering probable the position of the child with its back to the front of the womb. Next, Dr. Barres reviews the causes of abnormal positions; and thirdly, the user

hermal version is given, with due credit to Dr. Braxton Hicks, who gave form and elaboration to a method which had been limly foreshadowed by Wigand Rigbry, Simpson, R. Lee, and Dr. Barnes himself. Every variety of turning is described, in sonjunction with every contingency that can demand each; and in this part of the book there are episolically treated a rariety of the incidents of labour, such as prelapse of the funis, belief.

The seventeenth lecture, which is for the most part new in this skition, contains an account of retrodecion and retroversion of the gravid naterus, the complication of pregnancy with tumours, retra-sterine pregnancy, and various deformitions of the skeleton, whether from rickets, mollities ossium, spondylolisthesis, or ryphosis. These words are rather startling, but the kinds of telormity designated are fully explained and shown by draw-

ngs from specimens.
Next come two lectures on the Sacrificial Operations, as Jr.
Sarnes emphatically calls them—cranictomy and the Cesarian
section—the former including cephalotripsy and Dr. Barnes'
sew method (embryotomy by the wire Gerasenr.) The twentieth
lecture deals with the Induction of Premature Labour; and
severy variety, with the full examination of the conditions
giving rise to them. In this, as in every other part of the
book, there is much to convince the Practitioner what an
elsatic, growing, and improvable branch of practice midwidery
is, and how much there is in the volume before us which would
be quite new to any man who had intermitted his reading for

ever so few years.

We have thus endeavoured to give in as short a space as possible some account of the tone and spirit, as well as of the mere condents, of this most valuable work. Of the contents, lower ever, we may add that they include many more things than we encumerate—abortion, sea-tangle tent, hydratiform ovum, inversion of the uterus—in fact, most or all of the elements of difficult labour, whether instrumental or not, and the remedies. We will not use the hackneyed phrase that no obstetrician's library can be perfect without it, but we may call it a library in itself. A book so full, so clear, and so deep is seldom to be met with.

NEW BOOKS, WITH SHORT CRITIQUES.

The Discovery of the Nature of the Spleen from an Investigation of the Lateral Homologies of the Liver, Stomach, and Intestinal Canal. By Henry R. Sylvester, B.A., M.D. Lond., etc. London: J. and A. Churchill. Pp. 64.

•• Dr. Sylvester has entered into a very ingenious if not very profitable argument; he maintains that both the liver and the spleen are blood-forming glands, but that, over and above, the liver has its billiarly function. Now, we are not inclined to deny that the liver faillis a double function—billiary and glyen that the liver faillis a double function—billiary and glyen the bill dutte and their ramifications alone, the rest is given over to glycogen. But, speaking roundly, we should be inclined to call the spleen the grand lymphatic gland of the blood circulation; the liver is not. Without denying a certain analogy between the two bodies, the one on the right the other on the little state of the spleen of the body, which we know does not exist, we content ourselves with again praising the ingenuity here displayed, and the industry with which the materials have been collected from various sources.

The American Practitioner: a Monthly Journal of Medicine and Surgery, Edited by Davine W. Yambut, M.D., Probessor of Clinical Surgery in the University of Louisville, and Turoputure Pastry, M.D., Professor of the Medical and Surgaputure Pastry, M.D., Professor of the Medical and Surgaliance of Women in the University of Louisville. Vols. I, and II, Louisville: Morton and Co.

** The two volumes now before us, American Mcdiene.

** The two volumes now before us, American Mcdiene.
Founded awavedly on the model of the London Practitioner, the
editors seem to have attempted to limit in the first instance was
wisely abandoned the rule, admitting papers not only dealing
practically with certain subjects, but some wildly speculative.

The basis is not broad enough; for it is outless on the reportive

—the good ones must be mixed up with nonzense or twidle tes

give the proper bulk to the number. It would be easy to find.

a sufficiency of good sound material, and that, too, of a practical kind, were it not necessary to keep up the cry for therapeutics.

FOREIGN CORRESPONDENCE.

FRANCE.

(From a French Contributor.)

M. GUBLER ON THE RATIONALE OF THE USE OF ARSENIC. Paris, March 27.

A MONTH or two back, the Academy of Medicine listened to long and serious discussions on the Medical properties of arsenio. This medicament, now perhaps more than ever, is here administered in certain slow cases of phthisis, where, according to some of our best Practitioners, excellent results have been obtained from its use. Of course, in the discussions which arose on the subject, our Professor of Therapeutics, Dr. Gubler, took a prominent part. The resume of his opinion was about as follows:—Arsenic, apart from its irritating and "escharoliquesphace [ante " action. causes a diminution in the respiratory sphace/anter action, causes a diffinition in the respiratory combustion, or what may be called hemotomuse, and conse-combustion, or what may be called hemotomuse, and conse-cutable herein with clinical observation. They show a dimi-nution of carbonic acid exhaled by the lungs, and of urea secreted by the kidneys. The mechanism which produces this lowering of the oxidation and of disassimilation is still not well known. It is highly probable, however, that this is brought about, after intussusception of the metalloid, by its direct action upon the blood and nervous system, working either directly or by taking the place of a corresponding proportion of phosphorus; but nothing can authorise us to say that arsenie possesses the power of fixing the oxygen to the blood corpuscles more intimately or for a longer period. blood corpusedes more intimately or for a longer period. Arsenic, therefore, ranks as a contra-stimulant, an anti-pyretic, but not as a tonic; it is opposed to waste, but creates no strength; it is, not says, a dynamophorous wasting away, it permits the reconstruction and storing up of fat, whence the appearance of health and subspace, the same period of men or beasts who make use of it to a moderate degree. The symptoms of arseniciam resemble, in a measure, those which accompany hemicrania, and especially the facility Everything seems to indicate that the solative section of arsenic Everything seems to indicate that the sedative action of arsenic affects the circulatory centres at the same time, a fact which has been established by quite a number of observations. Nevertheless, more procise data, complete by means of modern investigation, and especially by spliygmographic researches, are necessary to demonstrate this important point. The momontary increase of the appetite from the use of arsenical preparations is probably due to the direct stimulation of the mucous membrane of the digestive organs, and to the diminution of the febrile symptoms which caused and kept up the bad appetite. The ensemble of therapeutical facts confirms on appetie. In ensemble of therapeatical facts commis-these physiological views, but many points still remain obscure, and require further inquiries. It is impossible as yet to esta-blish a theory of the physiological action of arsenie which can explain all the facts that are known about it, and even the facts themselves have not always been observed with sufficient accuracy to furnish a sound basis for the edification of a scientific doctrine.

PROVINCIAL CORRESPONDENCE.

BIRMINGHAM.

March 22 An Hospital for the diseases peculiar to women is to be established here. The formidable opposition, under the championship of Mr. Gamgee, which at first seemed to threaten its extinction, has vanished under the genial influences of a successful advocacy and powerful support. The new Medical bantling was fairly introduced to the public at a meeting held in the Town Hall, at which the Profession was moderately in the Lown Hall, at which the Frotesson was moderately represented; and Professor Berry discoursed most sweetly on its comely appearance, and predicted for it a long and prosperous career. From the difficulty in getting subscriptions, especially in large sums, for the charitable institutions of the

town, one might be led to doubt whether sufficient money can town, one might be not to doubt, which now project; certainly, the fund for the carrying out of this now project; certainly, the fund for the extension of the Queen's Hospital furnishments to the contrary. This fund, called the Working Man's Fund, although largely amplements by donations from other classes, has only now, after the lapse of many months, reached a very insignificant amount, as con pared with the wealth of the town, and it will require all the begging energies of its working committee to be exhausted before the requisite sum of monoy will be got to pay for the enlargement contemplated. The women's Hospital is to be worked on the "free system," which, it is to be hoped, will be so carried on as not to interfere with the legitimate domain of the general Practitioner. It is only by a strict adherence to this line of conduct that the new institution can become popular with the Profession—the members of which feel that already their incomes suffer from the indiscriminate relief which the existing Hospitals afford.

The past year has been one of the healthiest in the history In e past year has been one of the neatmest in the masory of Birmingham, and we may now justly claim for our town the distinction of being the most healthy of all the large towns. The old competitors, London and Bristol, were last year much behind; Bristol, formerly the healthiest of the big towns, being almost the worst of the towns included in the Registrac-General's weekly returns. Birmingham owes it low mortalityrate of the past year to the absence of any decided epidemic, but it is worthy of remark that the year's death-rate of 21 per 1000 is lower than that of the whole country, according to the ten years from 1851 to 1860. Figures, however, are on this subject more to be relied noon than words, and stated numerireally the mortality of Birmingham stands thus for the past four years—1867, 24:326; 1868, 24; 1869, 21-5; 1870, 21 per 1990. This progressive decrease cannot but be regarded as most satisfactory.

The out-door Medical department of Queen's College, since

its reorganisation, has continued to prosper, the number of atudents increasing annually; but we cannot speak so highly of the resident department, which from some cause or other fails to attract students, who have dwindled down to the lowest arithmetical number, and there are no signs of any increase. We are sorry to record the fact that the Medical tutor, whose appointment was of so recent a date, and whi gave such general satisfaction, has thought fit to resign. This is to be regretted, as Dr. Hilliard possessed qualifications of the highest character, and peculiar aptitude for teaching. The post of Medical tutor is, we believe, still vacant. Some of the Professors of the College have expressed to as their conviction that the Institution, as a Medical school, would do much better were there no resident department, and of this there seems to be no donbt from the parasitic kind of existence which it appears to live, or rather starve, upon. One of the chief defects of the to uve, or rather starve, npon. One of the chief defects of the Birmingham Medical School in the past has been the want of one special course of instruction in pathology. The lectures on Medicine and Surgery have, of course, treated of the pathology of their respective subjects, but practical pathology has been asidly neglected. This state of affairs has now come to an end. The newly created office of Pathologies at the or an enc. and nowly created onice of Pathologus at the General Hospital has met the want, and the students now-have weekly lectures, copiously illustrated by the great quantity of pathological material which the Hospital transhes. Mr. E. Richards, the Pathologists, by this organisation of his work, and by giving careful instruction in the microscopical wers, and dy giving careful inactuction in the interestorpical study of dissead tissues, has done excellent work for the students. Dr. B. Foster, too, at the General Hospital, has lately been carrying on some interesting experiments in dis-betes. The peculiarly low temperature which Dr. Foster first observed in this disease—and which his recent experience abundantly confirms—the temperature in all cases uncomplicated by any inflammatory condition, always remains below normal from 1° to 2°, and sometimes falls as low as 94°, while the respiration and pulse show no proportionate decrease. The drugs which Dr. Foster has tried lately in the treatment have been bromide of potassium, ergot, and lactic acid. The first has been found to have no influence in the quantity of first has been found to have no influence in the quantity of sugar, but, when combined with iron, the two drugs appear to produce more benefit than either does singly. Ergot, while diminishing the quantity of water, does not affect the sugar. Lactic acid, as prepared in Italy, has been tried recently, but the results have not proved satisfactory.

The system of surving at the General Hospital has been changed. Up to the present time, it has been in connexion with the Training Institution; but this has been broken off, as it was found inconvenient to have an wildful authority in the product of the product of the present the hard and wilded authority that the product of the product of the present the hard and wilded authority that the product of the product of the present the product of the present the product of the prod

as it was found inconvenient to have any divided authority over the nurses. The Hospital will, in future, train its own

nurses. Similar changes, we understand, are nending at the Queen's Hospital.

The annual election of district Medical officers took place this The annual election of district Medical officers took place this afternoon at the parish offices. There was rey large attendance of guardians, npwards of seventy being present. The cocasion was made interesting by the fact that this year the appointments were to be permanent. There was a disposition on the part of some of the guardians to postpone the election until the contemplated public dispensary was established, but the majority ruled that the election should proceed, the result of which was that all the members of the old saff were unanimously re-elected. The Medical officers have, therefore, much reason for rejoicing at their improved position, which has, if not directly, indirectly been effected by the strenuous exertions of those who have laboured to raise the status of the hard-worked parochial Medical officers. name of Mr. Rogers will occur to everyone as the life and originator of this unselfish enterprise.

GENERAL CORRESPONDENCE.

VACCINATION AND REVACCINATION.

LETTER FROM DR. GEORGE BEAMAY.

[To the Editor of the Medical Times and Gazette.] Sig.—I am unwilling to enerouch upon your space; indeed, should not venture to do so, did I not believe the suggestions of fifty years' practical experience:

1st. I recommend that vaccine lymph be taken from the

of fifty years practical experience:—

1st. I recommend that vaccine lymph be taken from the
arm on the seventh day instead of the eighth, the latter being
the usual practice. 2ndly. It should, when taken, be as clear and transparent as the purest spring water; the least cloudiness will impair its protective efficacy. 3rdly. The lymph should be introduced by the slightest scratch, with a keen, pershould be infroduced by the sugnitest scratch, with a seen, perfectly clean lancet, just beneath the outicle, and never into the collular tissue beneath the outie vera. 4thly. In a primary vaccination, two vesicles on one arm, just below the deltoid muscle, are amply sufficient; and in secondary or subsequent revaccinations, one vesicle is as protective as a dozen. Lymph should never be taken from a revaccinated person.

By attention to the above rules, the Profession will not see

either eruptions or abscesses follow the operation, and yet find its protective efficacy against the small-pox more infallible, than by any other method. Permit me to add that I have just now before me lymph and pus combined, given to me in tubes from one of our largest vaccine stations. Who can wonder that skin diseases, abscesses, or other constitutional disorders should result from introducing such impure lymph into the human body? I am, &c., Geonge Beaman, M.D.

Henrietta-street, Covent-garden, March 18.

INTENSE VACCINATION. LETTER FROM DR. J. J. TRAVER.

[To the Editor of the Medical Times and Gazette.] SIR,-The whole subject of vaccination being now of pressing interest, you may think the following observation worthy of

insertion in your journal :-

insection in your journal:—
On February 20 a healthy vaccinifer brought to my dispensary presented a few well-marked vesicle of a vaccina cruption, the direct analogue of the variolous cruption, districted the direct analogue of the variolous cruption, districted but caused by the inoculation of the small-pox. Taking a portion of lymph from one of these vesicles, I inserted it in one point of the arm of an infant I was about to vaccinate, and carefully cleaning my lancet, I inserted the lymph from the primary vesicles on the same child's arm in three other points, my practice being to make four punctures in each case. The result, as witnessed on February 28, was four senable well-developed and characteristic vaccine vesicles. It equally well-developed and characteristic vaccine vesicles. equally west-enveloped and characteristic vaccine venues. It is just at times like the present, when the constitute smni in plainly variolous, that these secondary cruptions of cow-pock are most frequent. Might not this be taken advantage of as affording an additional source of supply of lymph? I haveracted the contraction of lymph collected from that venicle, and shall chand a tube of lymph collected from that venicle, and shall contract the contraction of the con happy to send to anyone wishing to make the comparison for himself of its behaviour side by side with the ordinary lymph.

himself of its benaviour sace by sace what are boundary symposis. There is one other point I would like to make a remark on—
i.e., the use of lymph from the arm of a revaceinated person.
This I have never yet done, no matter how perfect the vesicle

(and I have seen them absolutely typical in form), but there is (and I have seen them absolutely typical in form), but there is just one contingency in which such a step might be advisable—that is, where an infant seemed to be insusceptible to the influence of primary lymph. In such cases I generally have succeeded by using, after one or more failures with milder lymph, that obtained from a vesiole still perfect in itself, but having more surrounding reduces than is usual on the eighth does a featurement up we see the state of the having more surrounding reduces than is usual on the cipith day. I sometimes put up a few tubes of such lymph, marking it "hot," for use in such cases. And it is precisely because there is more appearance of "heat" about the vesicles in the revaccinated that I a priori oredit the lymph thence obtained with greater power of overcoming the resistance of some constitutions to cow-poek infection. I lately revaccinated a lady, aged 33 (who remembers the failure of a former revaccination, aget as (who reambours the initiative or a normer revascination, but not the exact age at which it was performed), who had, for three or four days, a very sore arm, and considerable feverish reaction; as the vesicle began to wither, a slight erysipelas spread down the arm, and as it came to the hand the other hand took on a sympathetic action, but here the redness, etc., extended only to the ball of the thumb. Perhaps reances, etc., extended only to the basi of the thumb. Perhaps the possibility of such sequelae occurring ought to make one pause and weigh well the propriety of using revaccination lymph at all. In primary vaccination I have never seen erysipelas arise except under gross provocation. I am, étc., JAMES J. TRAYER, M.B.

Bagnalstown, March 20, 1871.

Baganalstown, March 20, 1871.
P.8.—One such case occurring in my practice is instructive.
A fine healthy beby vaccinated by me, at six weeks of age (which is probably the best age for vaccination), on the eighth control of the property of with minantic designt, its little arms anoth. Intering this from eye-witnesses, I was not surprised, at an early summons (the season being a harsh and breezy February), to find him attacked with crysipelas, which spread from the seat of the vaccine down that arm, over the left side of the head, down the whole own that arm, over the left side of the head, down the whole left side, then over the right side of head and body, and finally, as (in spite of all I could do) it reached the toes of that side, the little creature, worn out and exhausted with its long fight, succumbed to the disease.

FRUITLESS CALLS.

[To the Editor of the Medical Times and Gazette.]

Sm.—Some three miles from here is a village without a resident Sin,—Some three miles from here is a village without a resident Doctor. Late one evening, in winter, I was requested to go there, in all haste, to a lady in a fit. As my horse was in the stable, and my man gone to his hone, both some distance away, I got into a fly, and rode there as quietly as I could, paying a toll on my way, and afterwards 6s. for the fly. When I a rairved, I was told that I was not then wanted, as they had discovered, since sending for me, that a Doctor from surder place was in the village, and the lady was better. No fee was forthcoming. I had hardly reached home, and disminsed the vehicle, than an urgent message came for me to go to the wife of a tradesman some distance in another direction, as she was on a trademinal soline distance in subtlet threculoi, as site was supposed to be dying, and they could not find their Doctor. I went immediately, but was told, on my arrival, that their own Doctor had just gone upstairs, and I was not wanted. In this case, as in the other, payment was refused because on arrival my services were not required. I am fain to ask you, therefore, what is one to do under similar circumstances? since in a parallel case our ancient and sapient county court judge recently ruled that, as no service was rendered, the Doctor was not entitled to compensation for any trouble he may have encountered. And as the very great age of our learned lawgiver should, perhaps, entitle his opinions to more than ordinary respect, we must, I suppose, scarcely dare to question their legal correctness; yet what are we to do, since a Medical man may thus be made to fritter away his whole time without I am, &c., Medicus. acknowledgment or reward?

Brighton, March 23.

THE New York Commissioners of Emigration report THE New YORK Commissioners of Emigration report that, during the year 1870, 255,435 passengers arrived at that port, 212,170 of whom were aliens. Of these, 72,000 were from Germany, 65,000 from Ireland, and 38,000 from England, 11,500 from Sweden, and 10,500 from Scotland.

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

TUESDAY, MARCH 14.

THOMAS CUBLING, F.R.C.S., etc., President, in the Chair.

THE new PRESIDENT, on taking the chair for the first time, thanked the Society for the honour it had done him-an honour which was the more grateful to him, as to its Transactions he had contributed most of his published work. He had expe-rienced difficulty in taking the chair after such a man as Dr. Burrows, but he did it with a hearty determination to support the prestige of the Society.

Mr. JONATHAN HUTCHINSON read a paper

ON XANTHELASMA PALBEBRABUM, AND ITS SIGNIFICANCE AS A SYMPTOM.

The author stated that his paper concerned the buff or yellow patches, not very unfrequently seen near the inner angles of the cyclids, which had been described by Dr. Addison under the cyclids, which has been described by Mr. Addison mixes the name vittingoides plans, and which had been accentely figured by Mr. Wilson, Hebra, and several other authorities. He preferred Mr. Wilson is name, because it had reference simply to the very conspicuous colour of the patches, and to their location; and because it involved no suggestion of similarity of the preferred in the property of the patches, and to their location; and because it involved no suggestion of similarity of the patches. larity or relationship to any other malady. For some years the author had been engaged in collecting facts as to the clinical meaning of these curious patches, in the hope of finding that their presence might furnish a clue to their possessor's diathesis or state of health. More especially he had wished to investigate the correctness of Dr. Addison's belief (founded on but very few cases) that they were usually associated with disease of the liver. The paper was based upon the narrative of about thirty cases, and was illustrated by a series of coloured draw-ings. The chief conclusions arrived at are summed up in the following propositions:- 1. That xanthelasma never occurs in children; whilst it is fairly common in middle and senile periods of life. 2. That, in a large majority of eases, its subject is not seriously ill, nor in any danger of becoming so. 3. That, in a small proportion of very severe cases, jaundice, with great enlargement of the liver, are met with. 4. That, when jaundice contriguent at our design are not with a clinic study plantice of the contribution of many cases in which there has been no jaundice, there is yet the history of frequent and severe attacks of functional disturbance of the liver. 8. That xanthelasma occurs more frequently in females than in males, the proportion being two to one. 9. That remaines than in maires, the proportion using two to one. 1. I that in all cases the xanthelasmic patches appear in the cyclids first; and that not in more than about 8 per cent. do they ever extend to other parts. 10. That the patches invariably begin near the inner canthus, and almost invariably on the left side. II. That x anthelasmic patches are of little value for purposes of prognosis, being usually the evidences of part atther than of coming disease. 12. That it seems not improbable that they may result from any cause which has induced repeated changes in the nutrition, and especially of the companion of the compan cially in the pigmentation of the skin of the cyclids. Thus they occur to those who have been liable to have and they occur to those who have over happen on have dark arcolle round the eyes, whether from 'sick head-aches,' ovarian disturbance, nervous fatigue, pregnancy, or from any other cause; hence their frequency in "billous subjects," and in the female sex. 13. That it is probable that of the causes mentioued, under which the pigmentation of the eyelids may be disturbed, disorder of the liver is the most powerful; hence the fact that the more extensive cases are usually associated with hepatic disease. The author stated, amongst other points, that when these patches are seen on the eyelids, it is usually safe to suggest that their possessor has been the subject, at some period of life, of very severe and frequent sick headaches, and that in two-thirds of the cases this suggestion would be confirmed. He added that he had met with some cases in which some of the less usual evidences of disturbance of the nervous system in connexion with sick headaches had also been observed. In one instance, a man had been liable during his headaches to become temporarily quite blind of one eye, and now and then of both; and another, a woman, was liable to sudden loss of muscular power in her arms. Two cases were related of great enlarge-ment of the liver, with "black jauudice," both of which disappeared after a while. In one of these the patient became insane during the jaundice, but recovered afterwards, and is now well, but with large patches of xanthelasma. As regards the pathological anatomy of the patches, the author preferred to reserve his facts, which were as yet incomplete. He showed drawings, however, to Illustrato the important facts, not previously noticed, that the patches sometimes show evidence of other changes in the skin besides the accumulation of yellow material. Thus it is not uncommon for sebaceous glands to become much enlarged, and plugged by pellets of indurated secretion, blackened at the free extremity; and in one instance a number of large thin-walled serous cysts were developed. In these rarer forms of the malady, its real nature is usually disclosed by the presence of small spots of the characteristic buff tint. It is also recognisable from the fact that, whether oun unt. It is also recognisance from the fact that, whether the disease be cystic or sebaceous, the morbid conditions are arranged above and below the inner canthus, in what may, for convenience, be styled the xanthelasmic positions. Like xanthelasma in its more typical forms, they are also after a time accurately symmetrical.

Dr. HILTON FAGGE said that in his cases there was no evidence of disease of the liver. In one instance, the condition had been hereditary for four generations. It was impossible to draw the line between plain and tuberons vitiligoides. In Dr. Pavy's ease both varieties were present. In her, the spots began on the hands before appearing in the face. The jaundice she had was light, not dark. The dark spots were on the mucous membranes.

Mr. Spencer Warson had seen a case in a woman, aged 40, of dusky complexion, and liable to bilious attacks. There were a number of buff patches on the left cyclids, but hardly any on the right. She had disturbed vision at times, as from incipient

Mr. BRUDENELL CARTER said the condition of luminous zigzags surrounding the object looked at was common in hard brain-workers, and was thought to belong to hard brain-work, not to disordered liver. The fact that xanthelasma and temporary amaurosis had been so often noted together by Mr. Hutchinson might depend on his connexion with Moorfields

Hospital. Dr. Symes Thompson had seen the clergyman referred to in the paper. The jaundice was not from oustreening, nervous. The recovery was complete. Such conditions might depend on defective innervation,

Mr. HUTCHINSON, in reply, thought Mr. Carter's suggestion fair. He still thought they might distinguish vitiligoides plana and tuberosa. He would have liked to have heard more of the enormous liver which subsided.

of the enormona liver which subsided.

A paper by JAMES WTNNE, M.D., Guatemala (communicated by Mr. Spencer Wells), was read "On Central America as a Residence for Consumptive Patients." The object of this paper was to draw attention to the elevated table-lands of the Pacific slope of tropical America, and especially of Guatemala, a city situated 5000 feet above the sea, in lat. 14° 37′ 39′. Naving a mora temperature of 65° Fahr. The climate is that of perpetual spring; the air is read and twingsaring are not too stimulation. Communication. tonic and invigorating, yet not too stimulating. Consumption is very rarely met with, and phthisical patients coming from a distance, if able to lead an open-air life, make remarkable progress. Twelve cases are recorded. Of these four died, five recovered, and three remained under observation. Of the fatal cases all but one were seen for the first time when the disease had reached a hopeless stage. It is suggested that the value of the Central American plateaux in phthisis should be

tested by sending out twenty patients in an early stage of the isease for a few years, or, better, for permanent residence. After a few words from Dr. Webster, Mr. Stencer Wells explained that he had brought the paper chiefly for the purpose of exciting a discussion on the effects of climate.

Dr. BAKEWELL said the condition of these countries, their liability to revolution, the filth, bad food, and bad lodgiugs, all greatly militate against their ever becoming health resorts.

THE Minister of Agriculture has peremptorily forbidden the holding of fairs and cattle markets in France, in consequence of the extent to which cattle plague prevails.

The census for India is to be put off till next year.
This is to be regretted, as not only the census for the empire,
which was arranged for 1871, will be disturbed, but likewise the decennial period of comparison,

THE PATHOLOGICAL SOCIETY. TUESDAY, MARCH 7, 1871.

Mr. Hilton, F.R.C.S., President, in the Chair.

Mn. Mancus Beck exhibited a specimen of Spindle-celled Sarcona from the posterior tibial nerve. The patient, a man aged 32, had been healthy till four years back. There then set in pain in the leg, which became enlarged behind, and the swelling continued gradually to increase. It was very tender. He came under the care of Mr. Erichsen, who made an incision, and, finding a soft growth attached to the fibula, put it down as malignant. The leg was accordingly removed, and the man did well. A soft mass was found to have invaded the posterior tibial nerve, which was thickened above and below. posterior tibial nerve, which was threached above.

It was composed of spindle cells, with delicate fibrils supporting

them. It had probably sprung from the nerve-sneam.

Dr. Greenshow showed a specimen of Cancer of the (Esophagus, from a male aged 40, who till August last had the company to experience a difficulty in been healthy. He then began to experience a difficulty in been healthy. He then began to experience a dimensy in swallowing, which went on gradually increasing till February, when it was totally lost. He also suffered from violent dysproma when he tried to swallow anything. One day, after a violent fit of coughing, he brought up a fleshy-looking mass, and his dyspacea was gone, but the swallowing was no better; the food he tried to get down returned by the mouth and nose. By the laryngoscope it was seen that the right vocal cord moved imperfectly. After death, it was found that the ensophagus was narrowed by a cancer, which had eaten its way into the traches. It was epitheliomatons in formstion,

and the fleshy mass expectorated was also epithelial.

In reply to Mr. Weeden Cooke, Dr. Gerekhow stated that other parts were healthy. The case was most interesting from

a clinical point of view.

a clinical point of view.

Mr. WSTONE COOKE NEXT Exhibited specimens of Medullary Disease of the Skull. A woman, aged 63, had been operated on for an open seirrhau of the left breast. After a time, a bard, nodular swelling of the trontal and temporal bones appeared, and the eye became prominent. She died quietly. At the point indicated, the calvaruium was soft inside and contained, and the mass on the inside had caused absorption of the grey matter of the brain. The next occurred in a female, but all the properties of the proper gland removed. Before death slight paralysis of the right side had appeared, and speech was affected. A deposit was found in the third left frontal convolution, and another further back.

Mr. Aenorr said the late Mr. Moore strongly supported the view that cancer was local in its origin, but that it did not spread by any one means, though most frequently by the lymphatics; but it might do so by the blood also. Epithelioma was rare in the viscers; there modullary growth was commonly was rate in the incera, there meaning growth was commonly found, though all secondary growths tended to resemble their primary source. If the primary disease was epithelioms, the secondary would be the asme, but not invariably.

Mr. Cooke thought cancer and tubercle interchangeable

hereditarily.

Dr. Dickinson exhibited a Mesenteric Tumour from a child, aged 2, and which, it was noticed in three or four months after birth, was most probably congenital. It was situated in the left side, and was nearly globular; hence some thought it was the spleen others considered it renal. At the post-mortem it was found to be a mesenteric enlargement close to the kidney, but not joined to it. It consisted of a hard substance, arranged but not joined to it. It consisted of a nari succession, arranged something like a sponge. The hard substance was partly fibroid tissue and cartilage, with cretaceous matter; the soft portion consisted of fat cells and myxomatous fluid associated with

embryonic connective tissue. (Referred to committee.)
Dr. Dickinson also brought before the Society a number of Sections of Spinal Cords from patients the subjects of Tetanus, showing the results of extravasation of blood and serum in

tearing up the tissues, etc.

Dr. Whipham exhibited a specimen of Dissecting Aneurism of the Aorta, beginning in the first or ascending portion of the arch just above the valves. A systolic bruit was heard all over the chest, yet the patient complained only of dyspeptio symptoms, and was about to leave the Hospital, when he wa taken worse; a fit of vomiting came on, and he died. The

aneurism was mostly within the pericardium.

In reply to Dr. C. T. Williams, Dr. Whipham said the patient

only complained of pain after food.

Dr. Dickinson, for Dr. Hawkes, of Hanwell, exhibited a

specimen of Ruptured Aorta from a patient who had suffered from mania and epilepsy. The man had suffered from gout. On the 6th of last month he looked bad, and was sent to the infirmary, where he suddenly expired the same evening. There infirmary, where he suggests a produce the remains of an old clot in the left cerebral hemisphere, were the remains of an old clot in the corone striatum. There and a curious, cyst-like body in the corpus striatum. was a clot in the pericardium, the aorts being dilated and rup-tured above the valves, there being a kind of dissecting ancurism in that situation. (The body in the corpus striatum was referred to Drs. Diekinson and Powell.)

Dr. C. T. WILLIAMS showed an Aneurism of the Aorta Opening into the (Esophagus. It affected the transverse and descending north. It contained a good deal of fibrinous clot, and the left subclavian was blocked. The vessel was atheromatous. the substantian was blocked. The vessel was atheromatous. The patient, a man geed 38, had symptoms of dyspepsia apain in the scapular region. The left pupi was dilated. Latterly he suffered from dysphagia. One day, getting out of bed, he vonited blood, and died on the spot.

Mr. Morris, for Mr. Short, of Petworth, exhibited an Angurism of the Abdominal Aorta bursting behind the peritoneum. The patient, a man aged 41, had been suffering from a pulsating tumour in the epigastrium. He suddenly became faint, and the tumour increased in size. He suffered much from After death a large clot was seen behind the viscera, and chiefly on the right side. An opening was seen near the esecum. A cavity existed behind the viscera; outside was the skin and vertebra; in front, the peritoneum and kidney pushed forward. There was a large opening into the norta. The bodies of the vertebræ were carious, and the muscles were completely destroyed.

compresely descrived.

Dr. Powell. exhibited, for Dr. Quain, a specimen of Caries
of the Vertebre, from a male, aged 18. His habits had been
very irregular. He complained of occipital pain. His head
was kept fixed, and he wore an anxious look. He died sudwas kept fixed, and he wore an anxious look. dealy. The axis, it was found, projected, and the odontoid process pressed on the cord. The ligaments were gone.

Mr. Spences Warson exhibited a specimen of Spindle-celled Sarcoma removed for the fifth time after tying the femoral.

CLINICAL SOCIETY OF LONDON. FRIDAY, MARCH 10.

Mr. ERICHSEN, Vice-President, in the Chair.

DR. TILBURY Fox brought before the notice of the Fellows seven cases of Ringworm of the Arms and Hands, of an extensive and severe form, in seven men, in whom the disease tensive and severe form, in seven men, in whom the discuss had been contracted from a white pony whose body was studded over with patches of timea tonsurans, having ana-logous characters to those seen in ordinary ringworm of the scalp. The disease occurred only in those men who had groomed the pony: in three men brought to Dr. Fox by Dr. Drage, of Hatfield, and who were the ordinary grooms of the owner of the pony; and in four others, attendants of the Royal Veterinary College, where the pony had been sent for toyanger. The settlers we in proceed any another in the front of the arms; they were large, more infiltrated than neural, and, in one case, markedly herpetic. In one of the other cases, the central portions of the circular patches were studded with minute pastules. Dr. Fox attributed the severity of the disease to the large amount of fungus of a very luturiant kind being sown at one time upon the arms of the men. In one man parasilie sycosis was produced. Hairs taken from the pony, exhibited under the microscope, were seen to be ensheathed in spores and mycelial threads, both of which invaded the shaft of the hair; and seales taken from a patch on the arm of one of the men were also placed under the microscope, and showed the mycelium of the fungus, which Dr. Fox pronounced to be the trichophyton, sprouting in all directions throughout the epithelial scales. Dr. Fox stated directions throughout the epithelial scales. that he had never seen the transmission of ringworm from the horse to man before, nor had Professor Spooner in his forty years' experience; but he referred to the history of an epidemic which occurred some years ago amongst horses and mules in the valley of the Borne in Savoy, and which was reported upon by Professor Papa, in which a disease similar to that in the present seven cases was observed to be communicated to man from the horse. Bazin had also noticed the same occur-rence. He remarked, however, that the transmission of tinea from the ox and calf to man was common enough. He concluded by remarking that the seven cases brought under the notice of the Society illustrated the fact that ringworm of the surface varios considerably in aspect, according to the amount and rapidity of growth of the fungas, from a more erythematous desquamating patch (so-called parasitic pity-riasis) to a pustulating surface resembling and liable to emistaken for an exerna; the two extremes being connected by transitional forms, represented by an abortive herpes, a wellmarked herpetic patch, or a desquamating circular aca bounded by an herpetic edge; the occurrence of so much effusion as is necessary to produce herpetic vesicles being dependent upon the amount of irritation set up. Veterinarians who asserted the amount of irritation set up. Yeternarians wno asserred that "ringworm" was common in the horse, and might be com-municated to man, had not brought forward any proof that the disease which they styled "ringworm" was really para-sitio, and he had no doubt many non-parasitic eruptions of animals were classed under that term. The disease in the white pony referred to was, as proved microscopically, un-

The President asked if in other cases the virulence had been

increased by transmission.

Dr. Tilbuar Fox said that in many the herpetic characters of the disease were well marked, indicating considerable irritation.

Dr. Duffin said the great fact was transmission. He had seen a case somewhat similar from a mangy cat. Three chil-dren were affected, and the amount of irritation in these was considerable, producing something like eczema.

Mr. Coax, a veterinarian, said such transmission was well known, and the resulting disease was easily cured by a variety of stimulant applications. It tended to apread, and, by inos-culation, to form large patches. He thought the disease was auch more commonly transmitted to man than was supposed. Mr. Nettleship had tried direct experiments, and it was readily transmitted from animal to animal.

Mr. Prichard, of the Veterinary College, said he had never seen a case like this. The whole skin of the horse was involved. Neither had he ever before seen a skin disease transmitted from horse to man. This was also the opinion of others of his

colleagues.

Mr. Coopen Forster had a horse affected some time before, and his man became so also, apparently with the same disease.

Mr. HENAY LEE read an account of an Operation for Removing the Tongue. The jaw was divided at the symphysis, and a ligature was so introduced that, when its doubles were cut, the tongue could be tied into six different portions. A por-tion of elastic ligature was wound round the base of the organ, and the diseased portion removed by the knife. The patient did well.

Mr. CALLENDER said that in one case of cancer of the tongue and Calaberges and that in one case of cancer of the unique the pain had been excruciating, and he thought of dividing the gustatory; but suddenly the patient lost all pain. He concluded that the disease had been eating its way through a nerve, which being destroyed, the sense of pain was lost. In removing the tongue, he preferred to cut the mucous membrane on the floor of the mouth; next, the parts joined to the bone; and then, by the ceraseur, the tongue itself. The cases had

generally done well.

Mr. Willer had last year removed the tongue by cutting the jaw. He removed without any special previous preparation of ligaturing vessels. Two vessels only required to be tied. The

union of the jaw was mastisfactory, partly, porthaps, because
the patient was very restless. The cancer had been very acute,
and the man was in danger of dying of starvation.

Mr. Cooper Forsten said Mr. Hilton first thought of dividing

Mr. COOPER FORSTER SAID ART. HINTON HER HINDGE OF AUTHORS HE gustatory in such cases. He could strongly recommend the operation; in one instance relief was obtained for six months after. The linguisture described by Mr. Lee was often used for newi. He objected to division of the symphysis. With him, it was really a question whether a cancerous tongue ought to be removed at all. It subjected the patient to a certain risk. He had seen the tongue well removed by section from below He had seen the tongue wen removed by section from below merely. The electric écrassenr was the best means of removal. At Gny's they used Middledorf's battery for the purpose. With it there was no bleeding, and generally that was frightful. He twisted up the wire as it made its way through.

He twissed up the wire as it made its way inrough.

Mr. Eucrisens said many interesting points had been mised in the discussion. As to operation at all, it must be confessed that the operation was perilous. As to the methods of removal, many were difficult. In section of the symphysis, a plun many were diment. In section of the symphysis, a pish introduced by Sedillot was good—viz, to cut through at an angle from above and below >, so that the two portions inter-locked. As to the best mode of fixing the jaw after, he thought to best to drill the jaw before the operation. This was easily done by an Archimedean drill. In this mode of operating it was best to cut the tongue by the knife; in others, the cerascur was best. In the écraseur the wire was of some importance :

was best. In the censesur on ware was as some ampressarce, if too thin, it cut through too quickly. If too thin, it cut through too quickly. All the memorrhage. It was easily ted in the digastric triangle. The operation was not satisfactory. He saked Mr. C. Foreter what he did to draw out the tongue. He divided the symphysis in

ne did to draw out the longue. He divided the symphysis in one case three years ago, and the patient was alive now. He had a good deal of difficulty with the jaw. Mr. Fozarra said he sometimes inserted a pin to fix the wire at the proper spot. In the case of the electric écrascur, the wire must not be allowed to touch the pins.

Mr. CALLENDER said they might have hemorrhage after, even

with the écraseur. Mr. Gascottz aid the desirability of the operation at all was questionable. In all he had seen, the patient was deed in six months after; whereas, with no operation, they might lire twelve or eighteen months. The patients generally died of want of food, or of exhaustion. After operation, they had

pyzemia, or the disease returned. Mr. Lawson said that at the Middlesex Hospital, where they saw such patients die, those suffered less who had been operated on. Mr. Annort had seen the gustatory cut without any per-manent relief. He had always seen has morrhage with the

Mr. HART said the diseased glands should be extirpated more

freely when the disease was advanced. Mr. DE MORGAN said that years ago he got tired of operating, Mr. Dr Monoan said that years ago he got tired of operating, and his experience was against it; but after that a certain number of cases did well. Altogether, he thought it better to remove for the relief of pain and facility of eating. He tried the removal of glands in one case, but they were so closely attached to the vessels that he had to give it over, although they seemed loose. He had seen the ôcraseur used carefully, when the contract of the contract

John Reid's personal experience was in favour of removal,

even more than one

Mr. Willerr said the disease was very common in India; it returned there so readily that the Surgeons had given up operating.

Mr. Les said that if the tengue could be removed without section of the jaw, by all means let it be so; but in his case it was impossible. The hemorrhage so frequently dwelt upon made him think more of his elastic ligature.

FRIDAY, MARCH 24.

Dr. W. W. Gull, President, in the Chair.

Dr. Duffer read notes of two cases of Roseoia Variolosa that had come under his notice. In the first, some six hours after a severe rigor, a thickly-set, papular rask appeared. It was strictly confined to the surface of the abdomicn and the inside of the highs, thus occupying a triangular space, with its base upwards. The rask blanched on pressure. The patient presented the sign of severe febrile disturbance. After forty-terminal control of the control eight hours the eruption became purpuric, and at the end of an additional twenty-four hours, uniformly confluent. The regular papules of small-pox then appeared on the face. The patient had two imperfect vaccine marks on his arm. The case ran a moderately severe course up to the period of the secondary fever, when the disease aborted. In the second case, a papular rash, in all respects similar to the other, appeared on the arms and thighs of a girl twenty-four hours after severe rigors. The rash here also became purpuric on the third day, and on the fourth a modified small-pox eruption occupied the face. This patient also had been vaccinated. In reliance on the descriptions of Hebra and Trousseau, Dr. Duffin contended that where these limited rashes occurred they were pathognomenic of the appearance of small-pox, the diagnosis of which would be much accelerated. In vaccinated subjects they had little prognostic importance, but in the unvaccinated they were ex-tremely formidable. No proper small-pox rash seemed to invade the purpuric area, which gradually faded as the disease Dr. FAGGE confirmed the accuracy of Dr. Duffin's description.

He saw a patient some time ago with the rash, and next day there were papules of small-pox. A man came into Hospital with purpuric blotches, and passing blood. He died, as Iv. Wilks thought, from small-pox; but he had been ill over forty-

eight hours, and there were no papules. Nevertheless, twelve days thereafter several patients in the same ward and the ward clerk were attacked with true small-pox, there having been no other case in the ward.

Dr. Habershow thought the early diagnosis of small-pox often far from easy. The roscola was not always confined to the abdomen. Sometimes it extended to the hands and arms, or other parts of the body. In one instance, where it affected the joints, the case was conceived to be one of rheumatism.

Dr. Rasch referred to his own case. A lady, who had visited him whilst ill, was attacked with a rash resembling scarlatina

him whilst ill, was attacked with a rish resembling scarlatina on the abdomen. One small-pox pustule followed. Dr. BROADENT had allogether seen eight oasse like those mentioned by Dr. Frigge. The first exactly resembled a case of scarlatins, but was rather deeper in tint. There were slight throst symptoms; hemorrhage followed, and the patient died. There were no papules, though life was prolonged to the fourth day. The rash had been more or less general in all he had seen. With the cruption there had been a neriod of shashing seen. With the cruption there had been a neriod of shashing the seen. comfort. Hiemorrhage had come on, and death followed.

Dr. A. P. STEWART had been called to a case of doubtful Dr. A. P. Strwarr had been called to a case of doubtful diagnosis. Nevler days before his visit, a scarlatinal eruption had appeared, with sore throat. The rash had faded, and slight desquamation was going on, when the patient was seized with a rigor, and on the twelfth day pastules, completely formed in less than thirty hours, appeared on the hands and feet. Was this small-pox? The crusts formed were like those of impetigo. Dr. Sibson had seen a similar case.

Dr. Surron also affirmed that the early diagnosis of small-pox was not easy. He also had seen cases with rescolous rash over the abdomen. A girl had come into Hospital so, and in three days she was covered with pimples. Another came into the London Hospital with a measly rash on face and neck. No small-pox followed. It may have resulted from iodism. In a malignant case there had been a deep-red rash like that of ervsipelas.

Dr. Duffin said he had seen another case since the paper

was written.

The PRESIDENT said he had often made a better diagnosis by The PERSIDENT said he had often made a better diagnoss by not looking at the patient with premonitory symptoms of small-pox. Syphilis was most frequently taken for it. They sometimes died with the purpura. He had seen an old gentleman who had had small-pox in his youth, but was again attacked, and died bleeding at every pore on the feurth day as

the papules were appearing.

Mr. CHRISTOPHER HEATH read notes of a "Case of Complicated Stricture of the Urethra treated by Mr. Syme's Opera-tion for Impermeable Urethra." Mr. Syme's description of the operation was first referred to, and the case was related as follows: - A discharged soldier, aged 28, upon whom external urethrotomy had been performed in India, had an impassable attricture of the urethra, complicated with perineal fistules, and an old false passage of considerable length. The patient had been under careful treatment for six months before he came occu under caretat treatment for six months before he came under Mr. Heath's care; but no instrument could be passed into the bladder, nor was Mr. Heath more successful after several careful trials. He therefore adopted Mr. Symc's suggestion, and introduced a director through one of the fistule into the urethra behind the stricture, then passed a steel staff along the urethra and made it meet the director, and thus staff along the urethra and made it meet the director, and thus enter the bladder. Instead of then cutting upon the staff and dividing the stricture, as suggested by Mr. Syme, Mr. Heath preferred to pass Helt's dilator along the urethra and split the stricture; and this was successfully accomplished. The patient stricture; and this was navestany made a good recovery, and was taught to pass his own instrument, which he continues to do to the present time.

Mr. MAUNDHE said there were certain general rules laid down for the treatment of impassable stricture. He objected to forced entheterism, and he did not think that in this case the track of the nreturn had been followed. A false passage would be formed, and a granulating wound produced, ending in new contraction. It would be impossible to keep this new passage open. He would have selected a variety of perineal section. In all cases a bristle can be passed; the stricture may then be

gradually dilated, and finally cut through.

Mr. TEEVAN said they were often in a dilemma, and must select the least objectionable measure. There never was any stricture in the prostatic portion of the urethra, so, at worst, they had only to work their way through the perincum. It was impossible always to keep in the track of the urethra; but they had to make their way through somehow, either by forcing or cutting, and he thought cutting best. He thought it better not to puncture by the rectum, and to withdraw the instrument on reaching the bladder, as it irritates and increases the subsequent contraction when left.

Mr. Barwell had recently examined a man on whom, years before, he had performed Syme's operation. He had a good nrethra. He thought it best to cut through the hard mass. It was difficult to keep the urethra open, and close a fistula.

Mr. Coopen Forsten did not think they could see cases as bad as they did at Guy's. Mr. Heath's plan he thought reasonable. He found a fistula, and he took advantage of it; reasonable. He found a fixtule, and he took advantage of it; if they did not find such an one, it was better to make it. Ordinarily, the urethra was dilated behind the stricture; they might ent into this, and then take off the water regularly, and thus give the stricture rest before operating. He had hunted about a good many times, without finding anything like a nrothro

Mr. TERVAN said that when the man was tied up they might

just as well conclude the operation at once.

Mr. HAWARD was surprised to find no reference to puncture from the rectum; he had seen it afford great comfort to the patient and relief to the stricture.

Mr. CROFT thought Mr. Heath's case belonged to a class by itself, and demanded a special line of treatment.

Mr. Regyes said he had seen both Mr. Maunder and Mr. J. Adams manage to pass a bristle through an almost impermeable stricture.

Mr. Hearn said Mr. Syme's plan was not his; they had got iired up in the debate. In his case there was a long false mixed up in the debate. In his case there was a long false passage, so that he could not know where to cut. In his case it was not forcible catheterism; he had a guide to the bladder.
Mr. Teevan's experience seemed to be somewhat exceptional. Cutting sometimes led to fatal hemorrhage.

Mr. TREVAN briefly narrated the particulars of the Treatnent adopted in a Case of Retention of Urine from Impassable Stricture in a man, aged 46, who had suffered from severe organic stricture for ten years, and from retention, with dribbling, for nearly one year. At last, complete retention set in. bung, for nearly one year. At less, complete revenues as it, and he was taken to a Hospital, where, after an unsuccessful attempt to pass a catheter, he was relieved by a hot-bath and medicine. A few days later, he came under Mr. Tecvan's care for his complaint. He still followed his occupation as cab-driver, as the continual dribbling relieved him. Mr. Teeran tried for half an hour unsuccessfully to pass the smallest elastic eatheters and bongies, and when he renewed his attempts two days afterwards he met with the same want of success. The following day complete retention set in, and at four o'clock the next morning he was taken to Mr. Teeyan, who succeeded, after a quarter of an hour's trial, in passing the No. 1 smallest filiform bougie, which was only about one-fifth of an English No. 1; and having allowed the instrument to of an English No. 1; and having allowed the instrument to remain in for ten minutes, he withdraw it, when a very fine stream of urine began to flow, and continued for an hear, when nearly three quarts of urine had been passed. The patient was afterwards cured of his stricture by gradual dila-tation. Mr. Tovarn called the case one of impassable stricture, as no eatheter could be passed for the relief of the retention. He brought it forward to show what the filtern bougie could He broughs it forward to show what the fillform bougie could achieve in an apparently hopeless case for its successful nse. The occurrence of the retention facilitated the passage of a bongie, and therefore, if the patient had been put into a hot-bath, which would probably have been useless, as the weather was crypt hot, he would have lost a valuable opportunity presented him for commencing that treatment by gradual dilata-tion, which relieved the retention and ultimately cured the

operation Mr. Runvus had tried these bougies, and found them bend and double up very often.

The bougie had, in this case, saved the patient an

stricture.

Mr. Heath congratulated Mr. Toevan in passing a bougie in such a case. What would be have done if he had failed?

Mr. Chorr said that, at St. Thomas's, they often passed cat-gut guides first of all. There was also a plan of pressing against the stricture for a time, after which it might become passable.

Mr. MAUNDER had the highest opinion of the value of these rench bougies, and the nignest opinion of the value of these French bougies, and he regretted he was unable to procure any more from Paris. Experience and skill obviated the possible occurrence of the incident mentioned by Mr. Recves. Gentle handling was the great secret.

Mr. TERVAN said that, in inserting such fine bougies, they should be withdrawn a quarter of an inch for every half inch of progress made. Had he failed, he would have tied the man up, and cut into his bladder.

OBITUARY.

JAMES HENDERSON, M.D., INSPECTOR-GENERAL OF HOSPITALS.

DIED, at Jersey, a few days since. He entered the army as Hoopital Assistant August 5, 1809, and served at the capture of Guadeloupe in 1810. He was in Medical charge of the 1818 Regiment in the campaigns of 1813, 1814, and 1815 in Lower Canada, including Pittaburg, and was also employed throughout the whole of the Burnese war, under Six Archibaid Campbell, in Medical charge of the 18th and 1st Regiments. As the New Sax is the capture of Coope, as Surgeon of the as the New Sax is the capture of Coope, as Surgeon of the Assistance and the Coope of the 18th and the New Sax is the support of the Coope of the Sax is the New Sax is the capture of the Sax is the New Sax is the support of the Sax is the New Sax is the support of the Sax is the New Sax is the support of the Sax is the New Sax is the support of the Sax is 48th Regiment; in 1842 with the 3rd Light Dragooms, in Affghanistan; and in 1848 and 1849 in the Punjaub campaigns including the affairs of Ramnugger, action of Sadoolapore, and battles of Chilianwallah and Goojerat. He became Staff Surgeon July 27, 1855, and was afterwards employed at Malta. He had received four medals and four clasps.

EDWARD LONEY, SURGEON R.N.,

DIED on March 16 at the residence of his sister, Hill-house, near Cashel. Mr. Loney entered the Navy in June 1851, and after a short period of service at Plymouth Hospital he proceeded to the West Indies, where he served affoat and in Jamaica and the west indies, where he served anoat and in Jamaica and Bermuda Hospitals for seven consecutive years. Returning to England after this long-continued tropical work, and with health impaired by service at the Hospitals during two or more opidemics of yellow fever, he embarked on board the Cassar to epidemics of yealow lever, he embarked on board the Cessir to return, as frequently impress with officers, to the same station, return, as frequently interest with officers of the same station, where he suffered—with long interval—from two attacks of erypicals in the head, which placed his life in great danger at the time; the last attack was succeeded by hemiplegia, termi-nating in apoplexy. The Naval Medical Service counted few officers more accomplished in every department of his Profession, or more devoted to its duties.

MEDICAL NEWS.

APOTHECARIES' HALL.—The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday, March 23, 1871:—

A cop, Thomas Vauphan, Southess, Hunts, Alpien, Thomas Vauphan, Southess, Hunts, Alpien, Thom Heavy Orifiels, Landsdower, road, Notting-hill. Hazel, William Francis, Seymour-street, N.W. Lycett, John Allen, Scarbrough, Yorkshire, Noakes, Samuel Silverthorne, Newhaven, Bussex, Rose, William, High Wycombe.

The following gentlemen also on the same day passed their First Professional Examination:—

Fulford, William Edward, London Hospital. Moore, Samuel William, St. Thomas's Hospital. Murrell, Clement F. F., St. Bartholomew's Hospital.

APPOINTMENTS.

. The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

Cass, Stafford Thomas, L.B.C.F. Edin., M.R.C.S. Eng., etc.—Resident Medical Officer of the Notting-hill and Shepherd's-bush Dispensary. WILLIAMS, C. Threodors, M.D. Oxon.—Physician to the Hospital for Consumption, Brompton, vice Dr. Burdon-Sanderson, resigned.

MILITARY APPOINTMENTS

24TH FOOT.—Staff Assistant-Surgeon Richard Charles Coleman Hickson, to be Assistant-Surgeon, vice George Frederick Duffer, M.B., who resigns. Stri Foor.—Staff Surgeon Albert Augustus Gore, M.D., to be Surg

FIG. Symbol. Albert, who exchanges. M. Medical Department of the Blaff Surgeon, sice Albert Augustus Gore, M.D., who exchanges; Blaff Assistant-Surgeon dolm Munday, to be Staff Surgeon, sice Robert Turner, whose promotion, which appeared in the Gazette of January 24, 1871, has been cancelled.

BIRTHS.

Alcock.—On Pebruary 12, at Glendoven, Letterkenny, county Donegal, the wife of D. R. Alcock, R.N., Assistant-Surgeon H.M.S. Trafatpar, of

CHEADLE.—On March 24, at 2, Hyde-park-place, Cumberland-gate, W., the wife of W. B. Cheadle, M.D., of a son.

Fouls.—On March 28, at Edinburgh, the wife of Roberts Foulis, M.D., of Cairnic Lodge, Fifeshire, of a son.

HEAD. -On March 29, at East Grinstead, the wife of Hobert T. Head, S

Histon.-On March 19, at Bath, the wife of Staff Assistant-Surgeon J. Hinton, of a son.

Maxwell...-On March 21, at Stickney, near Boston, Lincolnshire, the wife of Peter Maxwell. M.D., of a son. PROVIS .- On March 23, at Biddenden, Kent, the wife of Dr. Wilton Provis,

ROLLESTON. -On March 24, at Oxford, the wife of Professor Rolleston, of

MARRIAGES.

COORT—MASH; —On MARCH 23. at the French Protestant Church of Edward VI., St. Martin I-legrand, Thomas Cooke, M.D. Paris, M.R. C.S. Edward VI., St. Martin I-legrand, Thomas Cooke, M.D. Paris, M.R. C.S. Contiene Again Heles Edward Proud De March March 1988. The Contiene Again Heles Edward Proud De March March 2004. De March 1988. Thomas Survey Contiene Control of Enzard de Manin.

Joseph Panaçois Control de March 18, at S. Mathliar, Elicimond, Survey, Samuel Grose, F.R.C.S., Surpeon H.M.S. Warrier, to Mary Cocilla (Public), Intrid designer of Henzy Rosenli, Westloamen, Schiffeld.

DEATHS.

DEALERS.

DATESPORT, CHARLES, SURFORD, TENESTII, Staffordshire, at Odd Rode, Cheshire, on March 22, aged 79.

DENHAM, JOSEPH WILLIAM, eldest son of Dr. Denham, of 30, Merrionsquare, Dublin, at sea, on the passage home from Buenos Ayres, on February Stafford Staffo

runry 28.

THAT 39.

EFERRIT, WILLIAM GIFFARD, M.D., formerly of Devizes, at 88, Grosvenserplace, Bath, on March 26, aged 61.

FRIDER, Thousa, Surgeon, Almeids, on March 21, aged 60.

HENDEASON, JAMES, M.D., Inspector-General of Army Hospitals, at
1, Upper King's Cliff, St. Helfer's, dersay, on March 19.

Upper King's Cliff, St. Hellei's, Jersey, on March 19.
 HOLHE, JARRA JOHES, M. R.C.S., late of Linton, Cambridgeshire, at Chippenham, Wilts, on March 19, in his 80th year.
 HOLHER, ANNA MARIA, wife of William H. Hosier, M.D., at Glashare, in the coughty of Kilkenny, Ireland, on March 26.

JOHES, HARRIST, the last surviving daughter of the late Dr. G. H. Jones, of Talyclyn Issa, Carmarthenshire, at Carmarthen, suddenly, on March 19.

LONEY, EDWARD, Surgeon Royal Navy, at Hill House, near Cashel, Ireland, on March 16. on March 10.

NULLE, Mark, widow of William Heary Neville, M.D., late of Eaher, at 16, Colville-square, W., on March 27, in her 77th year.

MILLER, Barrara, the infant daughter of J. N. Miller, M.D., Blackhoath, on March 24, aged 3 weeks.

on March 24, aged 3 weezs.

Mineser, Frankert John, International Assistant-Surgeon, eldest son of Dr. Minesen, Professor at Versailles and Military Colleges, and grandson of the late Isanc Higgin, Esq., of Cave Valley, Jamaica, at Toura, on March 9, aged 19.

WATEISS, JOSHUA, M.R.C.S., late of Chandos-street, at 49, Mornington-road, on March 21, aged 76.

VACANCIES.

Ta the following list the new ACANCE and the reason, the qualifications required in the Candidate, the person to whom applications should be made, and the day of election (as far as known) are stated in succession—ACANCE ACANCE or and Public Vescinator for Asharge Toronto Toron

ESSEX AND COLUMETER HOSPITAL.—House-Surgeon and Apothesury; must have both Medical and Surgical qualifications, and be registered. Applications and testimonials to the Committee at the Board-room, on or before April 13.

LINCOLN COUNTY HOSPITAL.—House-Surgeon and Apothecary; must be M.R.C.S.E. and L.S.A. Applications and testimonials to the Secretary, or or before April 10.

LISCOLN GENERAL DISPENSARY.—House-Surgeon; must be M.R.C.S. Eng., and be also either L.S.A. or L.R.C.P.L. Applications and testi-monials to the Secretary, on or before April 10. Election on the 18th.

monusare to use overwary, on or occure april 10. Location on the 19th.
MDDLERK CONTY LEAST, ANTUR, CLIEN IL HAVE, ASHIRAL MEdical Officer for the Female Department. Could date must be found to the female Department, Could date must be thanked to the Medical Superintendent, on or before April 18, after which date no applications will be received. The election will take place on the 18th.

PARISH OF ST. MARY ASSOTTS, KENSINGTON, W.—Medical Officer of Health. Applications and testimonials to the Clerk of the Vestry, on or before April 3.

ROYAL SURRY COUNTY HOSPITAL.—Assistant Honorary Medical Officer.
Applications to the Rev. C. R. Dallas, Farncombe Rectory, Godalming,
on or before April 27.

on or verore April 27.

BOYAL USING HOSPICAL, BAYR.—Honorary Physician; must be a Graduate of a British University, and be a Fellow or Member of a College of Physicians. Applications and testimonials to the Committee, on or before April 10.

BCARDOROUGH DISPENSARY AND ACCIDENT HOSPITAL.—House-Surgeon and Secretary; must be duly qualified and registered. Applications and tea-timonials to the House-Surgeon, under cover to the Medical staff, on or

timentals to the focus-outprom, unser cover to the man, we will be a former outpromise the former of the former of

Westmineren Hospital, opposite Westmineren Abbet. — Resident Obstetric Assistant; must be qualified to practise under the Medical Registration Act of 1998. Applications and testimonials to the Secretary of the Hospital, on or before April 4.

POOR-LAW MEDICAL SERVICE. *.* The area of each district is stated in acres. The population is computed according to the last census.

APPOINTMENTS.

Alarick Union,—The Workhouse is vacant; aslary £30 per annum. The Alarick District is vacant; area 200; population 5669; aslary £50 per annum. The Lesbury District is vacant; area 2019; population 2261;

Annum. The Lesbury District is vacant; area 2658; population

Horse Union.—The Saxtead District is vacant; area 2658; population Horse Union.—Inc Gancia. 604; relary £15 18s. per annum. Presselone Union.—Mr. Dyer has resigned the Union; area 23,397; popu-

President Union.—Mr. Dyer has remgned and basics 3484; salary £60 per annum.
Shaftsbury Union.—Mr. W. H. R. Bennett has resigned the Fontmell District; area 14,944; population, 3599; salary £70 per annum.

RESIGNATIONS.

Redmin Union.—George C. Carter, L.F.P. & S. Glasg., L.S.A., to the Nonth Union.—Enoch Davies, L.R.C.S. & P. Edin., to the Glyncorrug

North Outen,—major per the Pistrict.

Bless Berby Union.—Ollive S. Shaw, M.R.C.S. Eng., L.S.A., as Assistant Medical Officer at the Workhouse for Sick Poor.

DURHAM UNIVERSITY .- At a meeting held on Saturday DUBLIAM UNIVERSITY.—ALE BROUGHE BOARD AND AND IN Newcastle, Sir William Armstrong in the chair, it was re-wolved to found a school of physical science in connexion with the Durham University. There are to be four professorships and ten scholarships.—The cost of maintenance will be \$2000 and ten scholarships. The cost of maintenance will be £2000 a year, of which the University will defray one moiety for six years certain, and permanently if the college be successful.

CONVERSAZIONE IN THE HALL OF THE FACULTY OF PHYSICIANS AND SURGEONS, GLASOOW.—On Wednesday se'nuight the President and Fellows of the Faculty of Physicians and Surgeoms held a conversacion, to which a large number of visitors were invited. About 300 gentlemen attended. The arrangements made for the reception of the guests were very complete—the whole of the building being utilised, so that each might find whole of the outlaing being utilised, so that each might had an opportunity of viewing with comfort and ease what to him might be of most interest. In the rooms were displayed a variety of objects, not only of interest as more immediately connected of objects, not only of interest as more immediately connected with the study of Medicine, but with collateral branches of science. Dr. Fleming, the President, having made a few congratulatory remarks, Professor Herschel showed a number of experiments in corroboration of the experiments of Professor Tyndall, upon which his germ theories were founded. A vote of thanks was carried by acclamation to the President and Fellows of the Faculty for the privilege they had afforded the Licentiates of meeting together and enjoying a pleasant evening's intercourse.

CAUTION TO QUACES .- On Thursday last, the notorious Du Brange, of Gilbert-street, Oxford-street, whese bills are so freely circulated about the metropolis, was summoned before Mr. Knox, at the Marlborough-street Police-court, for describing air. No., at the agriculture and the Royal College of Surgeons of England. Mr. Straight, M.P., instructed by Messrs. Wilde, solicitors to the College, opened the case. The defence was that the tors to the College, opened the case. The defence was that the prisoner acted under one Frederic William Peskett, who was admitted a Member in 1854, and whose diploma was suspended in the shop. Mr. Knox refused to recognise the plea, and, stating what a very proper prosecution it was on the part of the College, inasmuch as so much mischief was caused by these ignorant pretenders, at once inflicted the highest penalty -viz., £20-and regretted he had not the power to inflict a greater punishment. The defendant's solicitor urged that time should be allowed to pay. The worthy magistrate refused to The worthy magistrate refused to entertain it, stating that, unless the fine were immediately paid, execution would fall, and imprisonment for three months. College will, of course, take proceedings against Peskett.

Mr. HUMPHREYS held a resumed inquiry on Thursday week respecting the death of Mr. Raphael Meldola, aged 39 years. The deceased was a Surgeon, and was found sitting in As some drugs were found in the room, an adjournment of the inquest had been ordered for an analysis of the contents of the stomach to be made. Dr. Letheby stated that he had analysed the contents of the stomach of the deceased, and found that he had died from the effects of a new poison called "chloral." This was a poison very rarely used; a small dose would produce sleep, but an extra dose would, in a few hours, cause death. Verdict : "That the deceased's death was caused by swallowing a poison known as 'chloral'; but under what circumstances he took the said poison, there is no evidence to show."

DR. CLEMENTS, of the Liverpool Workhouse Hospital, has died of typhus fever, caught in the discharge of his duties. THE Countess of Portsmouth has opened a cottage Hospital, for convalescents in humble circumstances, at Chum-

Hospital, for convisioneems in numoie circumsuances, as commission, near Eggersford House.

THERTY more patients can now be received at the Temporary Small-pox Hospital, I, Brook-road, Clapton, as a temporary from Hospital has been erected on the adjoining land. The terms of admission can be obtained on application to the Medical Superintendent or the Sister Superior of the Hospital.

THE Weymouth and Dorsetshire Royal Eve Infirmary is to be rebuilt, at a cost (including furniture) of £2200, the

present building being quite inadequate to the requirements. THE Mayor of Stockport, and five other magistrates. have been summoned by the Corporation for smoke nuisances at their respective mills. Fines were imposed in every case.

THE Manchester baby-farming case was on Monday further investigated at the city police-court. Evidence was produced as to the condition of the children, who had been removed from the house of the prisoner, Frances Rogers, and also as to certain advertisements which Rogers had published.

As it was considered necessary to have the evidence of a Medical man who had one of the children under treatment, the

further hearing of the case was adjourned for a week. THE Corporation of Birmingham has been singularly unfortunate with the sewage of the town for a long time past. and the subject has at length attained the proportions of a "difficulty." On the one hand, the inhabitants and owners of remetary. On the one hand, the inhabitants and owners of property in the neighbourhood of the bank of deposit at Saltley ave succeeded in getting an injunction, restraining the Council from depositing sewage at their sewage works in such manner as to be a nuisance to the inhabitants and owners of houses at Gravelly Hill, a distance varying from half a mile to three-quarters of a mile from the works; and, on the other hand, Sir Charles Adderley has also obtained an injunction against the Cornoration.

BATHERS, says the Manchester Examiner, like smokers, are apt to entertain exaggerated notions of the liberty of the Seventeen respectable young men were put on their subject. trial at Lewes, on Saturday, upon an indictment charging them with bathing in the sea under circumstances which were said to amount to indecency. The defendants are all inhabitants of Chichester, and the question was, whether they were to have their own way in the matter of sea-bathing, or whether the public rights were to be respected. The part of the shore selected by the bathers is admirably adapted for the purpose, but it is close to a public footpath. The main point of the defence was, that the practice had been carried on for nearly half a century, and that it had only been complained of since the prosecutor purchased some property in the immediate locality. On this, the Lord Chief Justice observed that, howocarty. On this, the Lord Onle Joshuco coeffect that, how-wer long it might have existed, such a practice was illegal, and could not be upheld. The footpath referred to was a public one, and must be taken to be "an ancient and accustomed path." On the other hand, his Lordship said it was desirable that the inhalitants should have a bothing place, and this one appeared to be very suitable. He suggested the erection of a shed, in which the bathers could dress and undress. He suggested the The proposal was accepted with gratitude on both sides, and the seventeen young men were discharged, doubtless to sin no more. Might not this wise suggestion be more often accepted in cases of a similar kind ?

in cases of a similar kind?

THE CEMPARRY OF STAGLIENO, MEAR GENOA.—At
the fortnightly meeting of the Clasgow Philosophical Society,
from Mr. Charles Heath Wilson, "On the Cemetery of Staglieno, near Genoa." After some preliminary remarks on the
carelessness and indecency which formerly characterised the method of interment used in Italy generally, Mr. Wilson said the Campo Santo, at Staglieno, was opened in 1851, and when finished will cost 5,000,000 fr. Although opened only nineteen years ago, the cometery contains four or five times as many monuments as St. Paul's, London, all erected by private munifi-A discussion followed, at the conclusion of which Professor Gairdner said that the only remark he had to make was seems variance said that the only remark so gait to find was a seem to strengthen the conclusion to which Mr. Wilson's paper seemed to point—that in all large places, such as Olasgow, it was a clear duty for the municipality to remove this matter out of the domain of private enterprise, and deal with it in the large and liberal spirit which it demanded, as a matter of public taste and sesthetics, and, what was of far greater consequence,

as a matter of decency and public health.

Dr. Brown-Sequard.-The members of the Profession will hear with pleasure that this gentleman has returned to Boston, and will make it his place of residence, for the present at least. Driven from Paris by the threatenings of war during the last summer, he receives a hearty welcome from his brethren here, and his Professional services will be gladly availed of by those having important cases in his specialty .-Boston Journal, February 16.

MELANCHOLY ACCIDENT .- A sad case of drowning occurred near Reading on Thursday. It appears that Mr. Philip Lucas, a pupil of Messrs. Maurice and Royds, Surgeons, of Reading, went boating on the Thames, on Thursday afternoon, with his two fellow-students (Messrs. Armstrong and Mitchell). When near Sonning, the boat was drawn towards the weir, over which it went, and was capsized. Mr. Lucas could only swim a little, and Mr. Armstrong gallantly endangered his own life in unavailing efforts to save him. Mr. Lucas was drowned, but Mr. Mitchell fortunately got safe to shore. The body of the deceased, who was a promising

young man, has not yet been recovered.

MANCHESTER CLINICAL HOSPITAL.—The annual meeting of the Manchester Clinical Hospital and Dispensary for Children, Park-place, was held on Monday in the Town-hall, under the presidency of the Bishop of Manchester. Dr. Hardie, Hon. Surgeon, read the report of Dr. Whitehead, the Hon. Directing Physician. The report stated, that of the two chief groups of disease from the prevalence of which we were at no time free—first, fevers of various types; and second, acute ailments much influenced by season and atmospheric agency-they had the usual proportion as to numbers, but perhaps on the whole the cases were less severe than for some time previously. Scarlatina and hooping-cough were the most prevalent and fatal, the mortality being at the rate of 70 per 1000; but with most of these cases were conjoined serious complications. Of cases of typhus they had had none recorded for two years, and only six cases of small-pox in the last four years, and no death. Of the second group of cases, lung affections and diarrhosa predominated.

TESTIMONIAL TO A SURGEON .- A beautifully executed and framed address, together with a purse of gold (£45), was and trained address, together with a purse of gold (£48), was on March 2) presented to Mr. Crocker, Surgeon, in recognition of the services rendered by him as a Medical men during an eight years residence at Wetherby; also as a mark of esteem for his uniform character as a kindhearted friend, one whose loss to the neighbourhood must be severely deplored. There was a large number of subscribers, the sums varying from 3d. to £2 10s. Mr. Crocker was a prizeman at the Leeds School of Medicine, and gained his diploma by unwearied study and perseverance whilst an assistant at Wetherby, a town twelve miles from Leeds.

THE SEWAGE QUESTION .- The Town Council of Exeter being unable or unwilling to propose a scheme for freeing the river Exe from the pollution of the city, a company intend coming to the rescue, under the name of "The City of Exeter Sewage-Manure Irrigation and Farming Company. The object will be the utilisation of the sewage of the city, the flow of which is stated to exceed a million gallons daily. A provisional agreement has been made with Lord Devon for, in the first instance, about 500 acres of land well suited for

irrigation purposes.

AN ANTI-VACCINATIONIST.—In examination before the "Vaccination Act Committee" last week, Mr. Aaron Emery, of Marylebone, said that one of his children died from vaccina-An inquest was held, and the jury returned a tion in 1869. verdict that the child died from crysipelas, caused by vaccinavergict trace the collection of the compact of the control of the collection. He obtained permission from the cemetery authorities than the very collection of the collection had a child 8 months old, who had not been vaccinated. If he was summoned, he should pay the fine, but he should never submit the child to vaccination. There was a strong objection to vaccination in that part of London where he lived, and he had seen numbers of cases in which vaccination had resulted seriously. He was a member of the Marylebone vestry, and he found that, of 110 cases of small-pox which occurred this year, 92 per cent. had been vaccinated. Why did not Mr. Emery state the percentage of deaths in the vaccinated and unvaccinated persons?

THERE is no nation where madness is so rare as in Turkey, where the people of all others think the least. In France, Germany, and England—countries more distinguished for intellectual activity—the number of suicides is greater than

in any other countries.

SMALL-POX IN THE CITY OF GLASGOW .- The Medical officer reports that during the fortnight ending Saturday, March 18, the deaths from all causes were 625, against 665 in the preceding fortnight. Of these, 318 were under 5 years of age. During the same period the cases of fever reported amounted to 421. On the 20th there were 631 known to be within the city; of these, 581 were under Hospital treatment, and 50 were treated at their own homes. There were also reported 74 cases of small-pox, as against 120 in the preceding two weeks; and on March 20 there were 124 cases of smallpox under Hospital treatment, and 22 treated at home; in all 146. Of the 124 cases of small-pox in the Hospital, 82 were vaccinated and 42 unvaccinated. Since the month of November last, when the epidemic might be said to have commenced, till the end of February, there had been 328 cases of small-pox, and 77 deaths were known to this department; but as every death from small-pox was known to them, and every recovery from the same disease not known, it would follow that a calculation the same case according to the most and the city based upon these figures would be fallacious. Taking, however, the rate of mortality in the small-pox wards in the Fever Hospital, Parliamentary-road, which was between 12 and 13 per cent. or 1 in 8 or 1 in 7, as a general rate over the city, then these 77 deaths represented at least 600 cases of small-poxthese it deaths represented at reast our classe of simal-pox. From information derived from Dr. Russell, it was observed that during January and February 15; cases of small-pox were admitted into the Parliamentary-road Hospital. Of these, 69 were unvaccinated, and 19 died (27:5 per cent.), and 88 were vaccinated, and 3 died (3.4 per cent.). Of these three vac-cinated persons who died, all were adult males—one, aged 24, with two very imperfect vaccine marks; one, aged 27, with one good vaccine mark; and one, aged 32, with a distinct but indifferent mark. The vaccination stations of the Board had now been in operation for two weeks; during that time 2015 persons had had their arms, etc., carefully examined, and of these 310 were vaccinated-160 children, and 150 adults, young men, and women .- Glasgow Daily Mail.

women.—triagoer Dang Main.

Two natives of the Garrow-hills, in Madras, are to be trained as vaccinators to practise in their tribe, which safes severely from small-pox. On the other hand, the villages of Kunnool oppose the entrance of vaccinators by force, and hide their children in the jungle.

EFIDEMIC.—The inhabitants of Malpas have been suffering from a disease of a typhoid nature; and on Monday week a public meeting was held to investigate the circumstances, and provide means, if possible, to prevent the spread of the disease. The meeting was well attended. Dr. Jordison advised what precautionary measures should be adepted. A discussion followed respecting the purity of the drinking-water supplied to the town, but this was satisfactorily answered, an analysis having been made, and the water pronounced perfectly pure. The patients were improving, though slowly, as the discase reduces them to an exceedingly weak condition. Four deaths have been recorded since its commencement.

THE figures in the following suggestive table from the Madras Administrative Report are certainly curious. They give the death-rate of British soldiers in the Presidency under the

ı	circui	m	rt a	me	es st	ate	:						
ı	:	Pe	ric	d	of Re	ddes	sec.			Deaths 1867.	per	Mille of	Strength.
	Death	28	n	nd	er 1	vea:	r of re	siden	ce.	19:3		19.2	27.2
ı	From									13.2		16.0	42-1
					yea					15.0		16.6	25.03
	**	3	to	4	year	18.				19-1		18.2	34.1
	99	4	to	0 0	year	ns.				44:7		24.0	23 9
	**	5	to	6	yea	na.				11.7		2.8	21.2
	**	6	to	7	yea	ns.				8.6		5.5	3.6
	Above	e :	7 1	rei	ATR					17.6		19.1	18.3

THE following advertisement appeared in the Mercurius Phylitics of September 30, 1658;—That excellent, and by Hypstians, approved China drink, called by the Chineana Tcha, by other nations Tay, slins Tee, is sold at the Sultaness Head Cophes House, in 'Sweeting's Rents,' by the Royal Exchange,

THE MEDICAL PROFESSION IN VIENNA.—In 1870 there were 739 Doctors of the Medical Faculty, 107 military Doctors having rights to practise in Vienus, 2 civilian and 16 military Masters of Surgery, 73 municipal Surgeons and accouoheurs, 52 dentists, 50 apothecaries, and 725 midwives; making a total of 1764. In the year 1860, the numbers of Doctors of Medicine were 584, of Military Doctors having right to practise 73, of Masters of Surgery 22, of municipal Surgeons 113, of dentists 26, of apothecaries 45, and of midwives 885.

THREE CASES OF TETANUS CURED BY HYDRATE OF CHIGHAL.—Dr. Dorigo has published, in the Gaz. Med. di Padoria of December last, the case of a boy of 13, who suffered from tetanus in consequence of a wound of the sole of the foot. The final recovery took place on the fifty-fourth day, the average daily dose having been ninety grains. narcotic effect became weak, the chloral was immediately given again. Dr. Grandisso-Silvestri mentions in the same paper another case of a girl, 8 years old, who had tetanic attacks after a lacerated wound of the middle finger of the right hand. She soon recovered after having ingested about half an ounce of chloral in five days. Dr. Bensasson, of Tunis, has also communicated to the Imparziale, of Florence, February 16, 1871, the successful case of a boy, aged 13, who was seized with tetanus in consequence of a nail running into his foot. The treatment lasted thirty-five days, about five ounces of chloral being used altogether.

BURNS AND SCALDS .- Dr. S. R. Judkin states that he has treated a good many cases of burns and scalds with entire satisfaction. He dissolves whitelead in flax-seed oil to the consistency of milk, and applies it over the entire burn or scald every five minutes, using a soft feather to apply the liniment. It gives relief sooner, and is more permanent in its effects than any preparation he is acquainted with.

EMERY CHURCHER CLAYTON, a case of dementia, was found dead on the evening of September 24, sitting on a form in the day-room between two patients. On inquiry it was found that he had been at work in the cemetery during the morning, and that the attendant out with him had seen him eating yew-berries, and had checked him. A post-mortem examination revesled a large mass of these berries half digested in his stomach, and as all the symptoms of death by some in his anomato, and as it the symptoms of ucain by some irritant poismon were present, there was no doubt that the yew-berries caused his death. It can only, however, the his large quantities that they are poisonous, as many of the patients have for years been in is he habit of eating occasionally a small number, and this man is the habit of eating occasionally a small number, and this man is the habit of eating occasionally a small of the Sussex County Lunatic Arrlum.

NOTES, QUERIES, AND REPLIES.

Be that questioneth much shall learn much .- Bacon.

Dr. Charles Kidd is thanked for his courtesy.

Thesa .- Yes; as far back as the beginning of the last century.

Evinensis. - We regret that our space will not permit us to publish the re-** The Army for our Lady Doctors,"-We must thank a correspondent who

has favoured us with a short article bearing the above heading; but we are afraid of putting so inscious a morgons before our younger readers. Certes, few prudent men would send their sons into the army if our correspondent's plan were acted on. Has he sent it to the Horse Guards !

N. P. asks us if the growth of hair has ever been treated of in connexion with epochs in life! He is approaching his grand climacteric, and says that he is conscious of an unusual growth of coarse, rough hair on the inside of the concha of the car, and likewise on the back of the car, near the site of that folded-down peak which Mr. Darwin and Mr. Woolner believe to be a vestige of the ape-origin of man

What is this discovery, says " A. B.," who sends a cutting from the Eche. We do not know-

TO SHORT PERSONS .- Anyone (Male or Female) wishing to increase in Height and Symmetry of Figure, by means of a remarkable physiological discovery, may send a stamped directed envelope to Captain F. Stafford (U.S.), Church-terrace, Kentish-town, London, N. W. A Sanitarian asks us to recommend to our readers the cheap wall-papers

sold by Pollard, 21, Little Newport-street, Leicester-square. He says: "The inside of a papered room becomes foul in a degree as a dirty shirt does; and most wall surfaces cannot be washed, and are made shabby if merely rubbed down. Hence it is a good thing to be able to get a clean and cheerful pretty-looking paper at one farthing per yard. Workingmen's wives ought to be able to strip a wall of its old paper, and put up a new one, and even, with their husband's aid, to wash and whiten a reiling." We shall believe in the "working classes" when they do things like this, instead of spouting politics.

Edward Jenser .- Some curious and interesting details of the treatment of small-pox are given in the "Letters of the First Earl of Malmesbury, lately published. Speaking of the treatment, it is said, "They are kept very cool, and are allowed to eat bread and all sorts of fruit and vege tables, but no butter; for a single slice of bread and butter would inflame their arms, and bring on a bad small-pox. This is known by

experience."

Adelaide.-The agricultural statistics are to be taken on April 1, and will be collected simultaneously with the census returns.

J. R., Swansea, -On July 19, 1819.

T. W., Fork, can be legally compelled to fulfil the engagement. Census.-The first census was taken in 1801, during the administration of

W. W., Chester.-The Universities of Melbourne and Sydney are, we believe, the only places in the Australian colonies who Medicine and Surgery are conferred. By the Queen's Royal Letters Patent, the degrees of both universities are placed on an equality with those of universities in the United Kingdom.

Melbourne. - As might have been anticipated, the quarrels of our brethren in Melbourne have formed a theme for merriment and joking for the newspapers. The Melbourns Heraid indulges in some rather ribald jesting on the matter; but the "Doctors" have only themselves to thank for

being held up to public ridicule.

Bliquette.-We certainly think it contrary to the principles which should govern the conduct of the Profession, that a paragraph like that which has been published with respect to the health of Mr. Paget should have appeared. Do not such paragraphs touch upon the delicate question of Professional honour-the honour of secrecy with respect to our patients? But it must be admitted, also, that the patient himself may be injured by the perusal of such statements. We can only repeat what we have stated on several occasions, that the Medical press cannot be too cautious in making such announcements. We beg leave to state that these remarks are addressed to the Profession, and not to the public.

The following paragraph appears in the third annual report of the Rich mond Infirmary:—

"On the other hand, there has been a falling off of £66 in the collections on Hospital Sunday, as some parishes were unable to give that aid which they had previously afforded, on account of the calls made upon them for the sick and wounded in the war."

AN ARMY MEDICAL RESERVE. TO THE EDITOR OF THE MEDICAL TIMES AND GAZETTS.

them for the siet and wounded in the war."

AT ALSW MERICAL REASUR.

AT ALSW MERICAL PREASUR.

Sig., We will suppose that John Dill does not go to deep again after his will a significant to the property of the property of the property of the will be a significant with a standing army large enough to be of some use in the event of our becoming involved in a Zourpean war. I det us also suppose that such is a great property of the property of the property of the composed of one will be composed of one with the property of the composed of one will be composed of one with the property of the composed of one with the property of the composed of one will be composed of one with bear passed through the regular army, or of combined. If it is to be really efficient and capable of at one taking upon the composed of one will be property of the composed of the composed of one will be property of the composed o



Total ...

Males. Females. Total.

We are living in a most expressive say, and if the astion can't attroct to purk her events received; who might all tend ever them as chance of doing something for themselves. It is just possible that she might make mover by no doing—or save vit, which is the same biling—as most neithing to relieve the property of the property of the property of the property events therefore the property events their passions would be cut down. However, the co-ning evint property of the property of the property events their passions would be cut down. However, the co-ning evint practice, would probably induce many to accept rather hard terms. At any rath, the offer might be made to them.

I am, &c., AN ARMY MEDICAL OFFICER.

COMMUNICATIONS have been received from-

MEDICUS; Dr. C. T. WILLIAMS; Dr. JAMES O'BRIEN; Dr. JAMES RUSSELL; Mr. HOLTON; AN ARMY MEDICAL OFFICER; WORCESTER; Dr. SEGUIN; Mr. W. H. THEVAN; Dr. GER; Mr. WALTER EREVES; Dr. OLIVES; Dr. W. S. PLAYFAIR; Mr. A. H. NEWER; Mr. WEITER EXPENDITURE; Dr. OLIVES; Dr. USLOP; Dr. W. GORDON; Dr. PHILLIPS; Professor LAYCOCK; Mr. J. CHATTO; Dr. POLLOCK; Dr. E. A. PAREES; Mr. H. ARNOTT; Dr. J. BUGHLINGS-JACKSON.

BOOKS RECEIVED-

Crisp on Prevention of Small-pex—Report of the Surrey County Hospital

—Report of Rotunda Lying-in Hospital—Oliver's Plain Facts on Vaccination—Modern Medicine: Has it kept Pace in Advancement with the Times ! by Dr. T. B. Crosby-Report of the State Board of Health of

PERIODICALS AND NEWSPAPERS RECEIVED-

Pharmaccutical Journal—Melbourne Herald—Gazette des Höpitaux—
Medical Temperance Journal, April—Nature—Cork Examiner—Glasgow
Herald—Gazette Hebdomadsire—North British Daily Mail—Transactions of the Odontological Society of Great Britain-Medical Press and Circular-New York Medical Gazette-Philadelphia Medical Times-New York Medical Record.

APPOINTMENTS FOR THE WEEK.

April 1. Saturday (this day).

Gperations at St. Bartholomew's, 15 p.m.; St. Thomas's, 91 a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 91 a.m.; Royal London Ophthalmic, 11 a.m. BOYAL INSTITUTION, 3 p.m. Mr. O'Neill, "Spirit of the Age."

3. Monday. perations at the Metropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Peter's Hospital for Stone, 24 p.m.; Royal London Ophthalmic, 11 a.m.

MEDICAL SOCIETY or LONDON, 8 p.m. Dr. Brunton, "On a Case of Measles with Variola, Measles with Everma, Scarlatina with Variola, and Scarlatina with Varicella." Dr. Myymott Tidy, "On a New Process for the Detection of Sugar in Diabetic Urine."

ROYAL INSTITUTION, 2 p.m. General Monthly Meeting.

4. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopsedic, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Ophthalmic, 11 a.m.

Opinicamic, if a decisive, 8 p.m. The following Specimens will be exhibited:—Mr. F. Churchill, "Pedunculated Growths from the Skin; Effects of Shers Spray upon the Skin in Addison's Disease." Dr. Whipham, "Growth in Liver." Mr. Hulke, "Large Medullary Tumour of Belly, with similar Tumour of Orbid," éta, etc.

5. Wednesday.

Operations at University College Hospital, 2 p.m.; St. Mary's, 1 p.m.; Middlesex, 1 p.m.; London, 2 p.m.; St. Bartholomer's, 1 p.m.; Great Northern, 2 p.m.; St. Thomas's, 1 p.m.; Samaritan, 2.30 p.m.; Kinya College Hospital (by Mr. Wood), 2 p.m.; Koyal London Ophthalmic, 11 a.m.

OBSTRUCAL SOCIETY (Council Meeting, 7 p.m.), 8 p.m. Dr. Hewitt,
"The Vomiting of Freemancy, its Cause and Treatment." Dr. Wiltshire,
"On Tetanus after Abortion." And other Papers.

"On reasons site Adortion." And Guer rapers.

ROYAL MIRGAGORICAL SOCIETY, 8 p.m. Mr. Wm. K. Parker, F.R.S., etc., "On the Mode of Working out the Morphology of the Skull."

Mr. Chas. Cubif. C.E., "On Linear Projection considered in its Application to the Delineation of Objects under Microscopic Observation."

6. Thursday

Operations at St. George's, 1 p.m.; Central London Ophthalmic, 1 p.m.; Royal Orthopsedic, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m.

HARTEIAN SOCIETY (Council Meeting, 74 p.m.), 8 p.m. Discussion on "Variola and Vaccination."

7. Friday.

orrations at Westminster Ophthalmic, 1\(\frac{1}{2}\) p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m.; South London Ophthalmic, 2 p.m.

VITAL STATISTICS OF LONDON. Week ending Saturday, March 25, 1870. BIRTHS.

Births of Boys, 1228; Girls, 1201; Total, 2429. Average of 10 corresponding weeks, 1860-69, 2116.0. DEATHS.

Deaths du Average o Average o Deaths of	f the	ten year	186	0-69 ed po	pulati	on :	756 	2	733°-	14	865 88'6 638
DEAT	HS	IN SU	B-1	DIS	TRIC	TS	FRO!	M I	EPID	EMIC	S.
		Popula- tion, 1861.	Small-pox.	Meanles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Pever.	Diarrhosa.
West North Central East South		458125 618210 383321 571158 773175	27 64 14 37 63	3 1 	5 10 3 5 13	2 1 1 	8 13 11 8 8	3 1 8	5 2 7	1 3 2	2 2 1 4

8 5 2 36 6 48 | 12 ... 2803989 205 10 14

g g Temperature Temp. Rain

METE							
From Observations at	the	Gree	MICH	ch O	beers	rato	ry.
Mean height of barometer .							29 840 ta.
Mean temperature							47'1"
Highest point of thermometer .							70-9*
lowest point of thermometer .							30.3,
Mean dew-point temperature .							41'7'
General direction of wind							Variable.
Whole amount of rain in the weel	k.						0°02 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, March 25, 1870, in the following large Towns:—

S.

	son 1871	care.	dur.	dur.	of A	ir (F	ahr.)	(Cent.)	Fa	ш.
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A	Births Registered the week ending J	Deaths Regardered the week ending B	Highest during the Week.	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3259469	41.8	2429			30.5		8.39	0.03	0:05
Portsmouth	125464	18.2	106	36	6710	34'0	46'6	811	0.00	0.00
Norwich	81787	10.8	55		68.9	30.0	46'0	7.78	0.00	0.00
Bristol	173364	37:0					***	. ***	22.	
Wolverhampton	74438	22-0				35.4		8-39	0.00	
Birmingham	378574	48.3				35.0		8.72	0.00	0.00
Leicester	101367	31.7	102			33.2		9.00	0.00	0.00
Nottingham	90480	45.3			67.6			8.72	0.00	
Liverpool	526225	103-0					48.2	9.16	0.00	
Manchester	379140				71.3	85.0		9.78	0.31	
Salford	123851	23.8	115			36'1		9'55	0.42	
Bradford	149030	22.2				36.0		8'44	0.00	
Leeds	266108	12.9	263	119	65.0	33.0	47'0	8°38 8 89	0.30	
Sheffield	255247	11.5	201	139	69.0	23.1	48.0	8.86	0.00	
Hull	135195	3810		57	61.0	29.0	43.4	6.20		
Sunderland	103037	31.3	69	44	22.	111	22.	7.72	0:00	0:00
Newcastle-on-Tyne	138293	25.2	120			35.0			0.10	
Edinburgh	179944	40.6	132		59.7	40.0		10:06	0.07	0.20
Glasgow	477627	94.3	374	300				9-33	0.00	
Dublin (City, etc.+)	322321	33.1	230	188	67.1	30.2	48°B	8.99	0.00	0.00
Total of 20 Towns in United Kingd'm	7336941	34'4	5680	3919	72.0	29:0	47-6	8-67	1.15	2-92
Paris-Week ending Mar. 24	1889842	98								***
Berlin-Week end- ing Mar. 18	800000	52		41						***
Vienna-Week end- ing Mar. 18	622067	68								***

• The actual numbers of the population of these cities and boroughs, as enumerated at the Census in April next, will probably be available before the middle of the year, and will then be substituted for these estimates.
• Inclusive of some suburbs.



ANGOVE'S CCIDENT

Extract from LANCET, May 71st, 1870.

"The advantages are that it will contain instruments enough for almost any accident, together with lint, plaster, bandages, fourniquet, &c.; and by keeping this stocked and hung up in a handy plane, on as reside to be off at any numeris. It is easily carried on horselack. By taking the instruments, &c., out, you have an oblong box, in which you can put that the property of the smaller of the property of the smaller of the scaled to. I, therefore, find it invaluable, being, "with my case," rough for the smaller out or anything less including an ampointion."

The Cases are made of hard, solid leather, and will stand any amount of lancching about, and one a very remail sum. Size of Case, 16 inches long, 5 inches deep. I From 6 Okas, covered in moroces and index duret, with avertices and strang, complete, 176; Case complete with instruments, £4.2.

MANUFACTURED SOLELY BY

ARNOLD & SONS,
Instrument Makers, by Appointment, to Her Majesty, St. Bartholomew's Hospital, Seamen's Hospital, &c., &c., 35 & 36, WEST SMITHFIELD, LONDON.

HOOPER'S CUSHIONS. WATER

(obtained the only Prize Medal, 1862).

ALSO IN USED BY H.M. ARMY AND NAVY. THE ROYAL FAMILY AND THE AND ALL INDIAN PRESIDENCIES. CLASSES OF INVALIDS. Full Length Water Mattress.





HOOPER, Operative and Manufacturing Chemist, 7, Pall-mall East, and 55, Grosvenor-street, London.

SILVER MEDAL AWARDED 1867.-JUROR 1862.

MORSON'S PREPARATIONS PEPSINE. 0F

MEDICINAL PEPSINE

(Poudre Nutritive, or "Persine Acide Amylacée" of the French Codex)

Contains the active digestive principle of the gustric juice, purified and rendered permanent and palatable. Dose—15 to 20 grains.

PEPSINA PORCI,

concentrated and NECTRAL preparation of Pepsine, free from any disagreeable taste or smell. Dose—5 to 10 grains.

These preparations of Pepsine are carefully examined and tested by a professional Chemist, and certified to answer to the tests indicated.

Full tecnationing the preparations named, and obscript the Trade Mark of T. Mossow AND Eos, is sold with a guarantee to that effect.

PEPSINE LOZENGES, PEPSINE WINE. PEPSINE GLOBULES. Are convenient forms for the administration of Pepsine.

WHEAT SACCHARATED PHOSPHATES. A Dietetic Preparation, supplying an important deficiency in the ordinary Food of Invalids and Children.

Manufactured by T. MORSON and SON, Pharmaceutical Chemists, 31, 33, and 124, SOUTHAMPTON-ROW, LONDON, W.C.

ORIGINAL LECTURES.

ON THE INFLUENCE OF THE NERVOUS SYSTEM ON DISEASES OF THE ORGANS AND TISSUES.

By THOMAS LAYCOCK, M.D., etc.,

Professor of the Practice of Medicine, of Clinical Medicine, and of Medical Psychology and Mental Diseases, in the University of Edinburgh.

(These lectures have been revised, and somewhat extended, by
Dr. Lawcock.)

LECTURE II.
SPECIAL TISSUE-CHANGES IN RELATION TO DIAGNOSIS AND THERAPEUTICS.

DIAGNOSIS AND THERAPEUTICS,
(Concluded from page 360.)

Does the trophical system regulate the chemical constitution of the blood and the lymph, and the nutrition and contractility of the blood and the lymph, and the nutrition and contractility of the blood and lymph corpusales? Blood may be considered the blood and lymph corpusales? Blood may be considered the contractility of the blood and lymph corpusales? Blood considered the considered the contractility of the contractility o

Of the chemical blood diseases scorbutas is the most typical; yet even in this the state of the nervous system is of practical importance. No doubt the causation is complex, because healthy nervous function is dependent upon healthy blood: but we know that the vigorous condition of brain and nerve with which the sentiments of hopeduness and cheerfulness are associated have warded off many of the bad effects of insufficient dict and other causes of scorbutas in crews and armies and bodies of men exposed to them. On the other hand, the effects of morbid blood are not always rightly estimated. The so-called anomic murmurs, even when there is anomain. sequire a nervous element for their production, for, as a clinical fact, they are almost peculiar to women, being very rarely indeed heard in men, however amening.

In tissue changes which are associated with morbid conditions of the blood—such as droptes and inflatumatory or other exudations—the lymphatic system is probably inflatured by the nerrons system than even to vascular. The contractility of the lymphatic vessels seems also more dependent thereon. In several species of replies there are lymph-hearts, which are so closely connected with the nervous system that can be considered to the contract of the spinal cord stopped the movements of the lymph-hearts in a frug when those of the blood-heart continued. It is not less significant, if the statement be absolutely true, that, evolutionally, lymphatics are pseculiar to vertebrates. We may conclude, therefore, that the lymphatic system has more important relations to the nerves and nerro-centres than has hitherto been suspected. In a

future lecture I shall show that the pathology of plastic exudations, ordemas, and anasarcas may be placed in a wholly new light by these facts.

I make the same remark as to the current humoral pathology of certain diseases in which there is a theory of deposits of a metric merki from the blood. Many, if not all such—as, for example, gout, "deposits"—are not deposited, but produced in the tissues where they are found, and are found there because the absorbents have failed to take them up and a remove them with other effets products. Hence, two conditions absorption—two things different, yet due to common causes, in which defective innervation is one of the most important. But, even these must be differentiated, for gonty deposits do not characterise muscular rheumatism, so that there must be a differentiate une affected in these diseases.

Muscular energy is the type of all motor power, as it is of vital energy. The "vis insita" of the voluntary muscles means electricity of high tension. It has important relations to the vis nervoss. It is thought generally that the nervoss system not only excites the evolution of muscular energy, but supplies it in part. Dr. C. B. Radeliffe has, however, by a connected series of experimental facts, shown that the whole power is in the muscle. M. Matteucci, having discovered that power is in the muscle. M. Matteucci, maying uncovered una-muscular action is accompanied by an electrical discharge analogous to that of a torpedo, and it being further found by M. Dubois-Reymond that the longitudinal surface of the muscular nerve-fibres is electrified positively, and the transverse negatively, it became easy to account for the phenomena if we suppose there is a property of physical contraction strongly inherent in muscle. But this supposition includes vital properties of muscle not taken into account, and omits other properties. I give the explanation, however, because it is instructive, although not satisfactory. The electricity in the muscle, being statical, is of high tension, and so keeps the muscular molecules in a state of tension and of resist-ance to their physical contractility. When, however, the electricity is discharged, then the state of elongation and inaction ceases, the physical contraction comes into play, and the muscle shortens; so that, according to this theory, the function of the motor vis nervosa, set free by or during an act of volition or otherwise, is to discharge the electricity of the Whenever these electrical relations of the transverse and longitudinal fibres are reversed, contractions, varying as the causes of the reversal vary, take place. Now, the causes may influence either the state of electricity of the muscle or the state of electricity of the discharger—the nerve and nervetoo state or electricity of the discharger—the nerve and nerve-centres. Rippor mortis is said to be due to the physical contrac-tion which follows upon the complete reversal incident to death. Cutting off the supply of blood to muscle or nerve, or a supply of bad blood, and various injuries to the nerves and nervecentres, chemical, thermal, or mechanical, all have the effect of centres, oreincas, incrima, or mecaninar, an inave tracerior tracerior, contract, so that opassus and convulsions, reversing the service of the contraction of the muscular fibres. Epilepsy and other convulsive disorders are thus explained. We can apply the same reasoning to arterial palsy. If the dilator- and conductors the contractive bein similar electric relations to each other fibrils of arteries be in similar electric relations to each other distributions. as the longitudinal and transverse surfaces of muscles, then palsy of the dilating fibrils will set free the physical contractility of the contracting fibrils—just as I stated with regard to the iris and its movements.

That is movements this ingenious theory are two-firstly it assumes that the centractility of mucle is, like that of controlhoue, physical in the sense of not being vital; and, secondly, it fails to explain important facts. How is it that a furious manise can put forth such enormous strength when the discharges of the electricity are morbid? Besides muscular contraction is not a persistent tension, but consists in a rapid alternate lengthening and shortening, as is proved by the myograph. The proper word, therefore, is rather vibration than constituents to the rapidity of the vibrations of the muscular fibrile; and as this implies a constantly recurring production and discharge of electricity, it follows that there is a suitable material in muscle for that production. When that material is exhausted, or when from a trophery it is not formed, the muscle loses its contractility. Anyone may demonstrate the vibratory action of mucles setchesopically, or, better still, by placing the side of his head and face on a firm pillow, so that the cer and masseter the jaw, the vibratory muscular freenites will be heard, and it will be found that the rapidity of the vibrations increases with the volltional energy of contraction. It is these vibrations

(a) Medical Times and Garette, 1902, vol. ii.

Vol. 1. 1871. No. 1084.

which wo clicit in the muscles of wasting palsy when we excite fibrillary contractions by concussion.

Apart from the theory of muscular contraction, the electric theory of a ris insite has support in clinical observation. we remember that nerve as well as muscle is in a state of electric tension, we can understand how disturbances in the electric tension of the atmosphere will induce rheumatic and neuralgic pains in persons predisposed thereto, and in others affect the feelings and intellect. It is to some condition of this kind that we must attribute the neurotic influences of certain winds-the east wind in this country, the north wind in certain other regions, as at Buenos Ayres, where it is known to excite, in some, great irritability of the sensory nervous system. Electrical therapeuties are also rendered more precise. tinuous currents of low tension, such as of the common galvanic machine, have a paralysing influence on both nerve and muscle, the sensibility of the one and the contractility of the other being suspended. At the moment of closing or of opening the current, the opposite condition is induced; and this is what results from the use of the coil machine; you excite the con-tractility of the muscles and sensibility of the nerve. Again, the line of physiological activity to which I referred in a former lecture must be considered. When a part of a nerve or of a muscle is subjected to a centripetal or "inverse" current for some time-two or three hours-that part which lies between the nearest galvanic (positive) pole and the muscle is found to retain its electricity and resume its irritability; but a centrifugal or direct current has an opposite effect. When the irritability of a muscle is wholly lost, it has no electricity. These are some of the points it is necessary to remember in the treatment of neuralgia and palsy by electricity and galvanism. In improving nutrition you restore the natural electricity.

Doubtless spasm could be relieved in certain cases by the coutinuous current, and I think it has been tried successfully.

There are certain trophesies of muscles which require us, in observing them, to take into account another principle of physics. The idea of polarity or of motion by antagonism is physics. The idea of polarity or of motion by antagonism is the foundation of many systems of philosophy and cosmo-graphy, as it is of the theory of Dr. Radcliffe. Now, anta-gonistic action is a great fact in all muscular action. It as seen in the action of the iris, of the heart and arteries, of the flexors and extensors, adductors and abductors of the voluntary system; so that much of elinical observation turns upon an system; so that much of cunical conservation turns upon an appreciation of the fact. In rheumatic gout, and in the main-d-griff of wasting palsy, there is morbid contraction of the flexors and adductors; in dropped hand of lead poisoning, a palsy of the extensors, but no affection of the flexors. It would appear from various experimental researches(b) that there are centres in the spinal cord which specially regulate the flexors and extensors and other antagonistic muscles of the body and limbs. We thus comprehend how tetauus differs from convulsions, and the flexion and extension and other movements of limbs observed in the bodies of persons dead of yellow fever

and cholera from rigor mortis. An important point in muscular pathology merits special otice. A large amount of heat is given off in ordinary muscular exercise, and in the muscular contractions of tetanus, and chemists have explained the production of it in various ways, more especially, however, by two theories—the one attributing it to the chemical decompositions which accompany muscular activity, and the other to increased friction of the blood in the vessels. But neither of these theories serves to explain the large amount of heat given off in rickets and in acute muscular rheumatism, in which the limbs are kept acute muscular racumatusm, in which the imposite expired motionless; in inflammations generally of fibrous tissues, such as pneumonia; in ardent fevers, or in the bodies of persons who have died of tetanus, yellow fever, pysmia, and rheumatic fever. Such theories fail for want of breadth of view, since the thermogeny must be considered in relation to other causes of heat-production than those alleged. The so-called meta-stasis of rheumatism and pyemia is only one of many clinical facts which prove the influence of the nervous system clinical facts which prove the minutenes of the article and on the phenomenou. So, also, with the state of the blood in cases of heat-production after profuse hemorrhage. In like manner, the changes in the blood, as to the amount and quality of the fibrine, are in relation with the mutritional condition of the muscular and fibrous tissues, and indicate that they are already in a state that predisposes them to take on morbid action. Before an outbreak of acute rheumatism the blood is highly hyperinotic. It is for this reason that excessive muscular exercise, as well as prognancy, chlorosis, and other hyperinotic conditions, pre-dispose to rheumatic affections. All these chemical facts

indicate the need for much more comprehensive views of heat-production than the chemists entertain. I shall revert to these points when speaking of morbid heat.

ORIGINAL COMMUNICATIONS.

ON THE OCCUBBENCE OF

EPILEPTIC ATTACKS AND OF MANIA IN CONJUNCTION WITH CHOREA:

> AND ON IRREGULAR EPILEPTIC ATTACKS.

WITH ILLUSTRATIVE CASES. By JAMES RUSSELL, M.D., F.R.C.P., etc., Physician to the Birmingham General Hospital.

THE first two cases which form the subject of the following report are given in continuation of certain illustrations of the report are given in continuance or certain illustrations of the combination of chorea with replieptic symptoms and mental disorder, reported in a former number of this journal (April 2, 1850). The subject of the concurrence of chorea with epileptic attacks, as mentioned in my former communica-tion, has been especially referred to by Dr. Hughlings-Jackson, who has done much to impart a considerable amount of interest to its consideration in connexion with pervous diseases

in general.

The question as to the origin of epileptic attacks in the In question as to the origin of epicput assets in the course of such diseases as chorea, and the comparison of the fits occurring under these circumstances with those which constitute the accepted form of the true epileptic attack. have a very interesting connexion with an inquiry as to the dif-ferent modes in which nervous disease is brought about in different cases, whether by changes inherent in the constitution of the proper norro tissue itself, or whether by lesion of other tissues or organs outside the proper nervous elements. It is needless to observe that this inquiry has of late years attracted increased attention on account of certain suggestions which have been thrown out in order to explain the etiology of chorea itself as well as of certain forms of delirium and mania.

The means we possess of tracing the origin of many of the diseases which affect the organs of the nervous system, by examining the organs themselves, are undoubtedly defective. Independently of the obvious fact that the molecular operations by means of which the several nervous functions are performed both in health and in disease, cannot be made the subject of anatomical investigation, neither during life nor after death, our method of anatomical investigation has hitherto proved only partially effective in detecting organic changes whenever such changes concern the finer component elements of the tissues. This may be still asserted, notwithstanding the advance made by the present analytical school of pathology in supplying the deficiency, an advance well indipathology in supprying the deneracy, an advance were mur-cated by the able lectures of Dr. Moxon at present appearing in this journal. Under these circumstances the clinical history of the discusses in question becomes of greatly increased value, and may even be cautiously employed in the absence of more direct means of research. By endeavouring to trace the conditions under which any particular disease originates, the course it ordinarily pursues, the collateral circumstances with which it is generally associated, and the mode in which it terminates, we may, perhaps, succeed in establishing some important distinctions having a direct bearing upon its etiology, and may indicate a separation between particular groups of cases, in which, nevertheless, as in the various forms of the epileptic attack, both the symptoms themselves and the manner in which

they are grouped together may be nearly alike.

Comparing now the clinical history of chorea with that of
the particular form of disease to which the term epilepsy is applied par excellence-viz., the essential or idiopathic epilepsyapplied per excellence—viz., the essential or idiopathic epilepsy-certain significant distinctions will present themselves, quite apart from the special symptoms which characterise each of these maladies. Thus, whilst in idiopathic pelpeys the family history, where manifesting any proclivity to disease, most generally points to the presence of some infirmity involving the purely nervous functions, such as peculiarly of tem-tering the processing of the pro-cessing of the processing of the processing of the pro-cessing of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the pro-tes of the processing of the processing of the processing of th fits without evidence of coexisting disease-possibly, also, to hits without evidence or coexisting disease—possion, also, to the operation of other influences which have a direct tendency to degrade the health of the nervous tissue—in chores, on the other hand, hereditary infirmity, when present at all, manifests little evidence of special nervous disease strictly so-called, but rather relates to conditions which seem to operate upon the nervous tissue indirectly, either through the bloodyessels or through changes in the adventitions elements of the nervous structures, of which rheumatism is the most prominent.

Again, as regards the circumstances belonging to the patient himself, under which the disease actually manifests itself : whilst in epilepsy we are not able to connect the occurrence of the malady with any particular constitutional or local abnormity, chorea, on the other hand, is related in so large a number of instances to certain special conditions of other than number of instances to certain special conditions of other than the purely nervous organs—encially to rehumatism, cardiac disease, and pregmancy—that the connection between the two cannuot be regarded as accidental; and to these conditions may be added other forms of disease affecting the purely auxiliary elements of the nervous centres, many of which have been collected by Dr. J. W. Oglo in an extended series of observations on fatal and nore hatal achors, contained in the British and Foreign Med.-Chir. Review (January, 1868, et seq.). Nor does the force of this statement seem to be invalidated by the admission that, in certain cases both of chorea and of epilepsy alike, powerful nervous excitement may have been chargeable with the immediate production of the attack. Once more: whilst epilepsy, when once developed in the individual, appears commonly to ally itself with the ordinary nutrition of the nervous centres, and so to become a permanent condition, enduring through a large part or even the whole of a life of average duration, commencing, too, very commonly in early years, chorea is limited in its duration, occurs in distinct attacks-sometimes, it is true, of several months' continuance. but still restricted by definite periods of time-and finally leaves the patient altogether.

These differences in the clinical histories of the two diseases

I have cited must not, I am aware, be carried too far in the present state of our knowledge, especially in the face of the present state of our knowcoge, sepecanty in successive successive present state of our knowcoge, sepecanty in successive state of the most careful inquiry; they certainly, however, hold a prominent place in the descriptions of the two maladies which present themselves to our minds, and have not been contradicted by the results of anatomical committed to whenever such examination, whenever such examination, whenever such examinations are considered to the contradiction of the results of anatomical committed to the results of anatomical committed to the contradiction of the results of anatomical committed to the contradiction of the nation has been made. So far as they go, they have a tendency to separate the diseases in question, as relates to their etiology, in the same way as the common forms of paralysis are sepa-

In the same way as the common forms of paragrams are separated from the characteristic group of insanity.

But under the term epilepsy (used in its loosest application) is comprised a variety of other forms of convulsive diseases, often spoken of as epileptiform, in contradistinction to the idiopathic variety. Now these latter forms, so far as their clinical history is concerned, stand contrasted with idiopathic cimical instory is concerned, stand contrasted with intopatine opilepsy, and ally themselves in this particular with chores; and so far as actual pathological examination is concerned, the distinction from idiopathic epilepsy is warranted by the discovery of disease in other organs or tissues than those which

are purely nervous.

The confusion thus introduced into the nomenclature of epileptic disease results from the want of separating from each other the two elements which exist in the production of the attacks; the first is the actual condition of the nervous tissue austices, it can first in the actual condition of the increous tissue at the moment of the explosion; the second, the particular condition, whatever it may be, which brings about the explosion, or disposes to its occurrence. No doubt the former element is the same in cvery variety of paroxysm, since the method in which the motor phenomena are actually effected must be unvarying. It is in regard to the second element that the essential difference obtains between the two forms of the essential directnee obtains between the two forms of opilogay mentioned above, and this difference appears to be sufficiently indicated in the distinction already suggested between their respective clinical histories. In the idiopathic form, the cames seems to be involved in the particular contains the superscenarios. mechanism by which the fits are effected—it is identified with the constitution of the nervous tissue; and since the molecular mechanism of ordinary movement escapes our means of observation, so does the peculiar change in this mechanism whereon the epileptic constitution depends. In the other form, on the contrary, the cause is external to the nervous tissue, and may be of most diverse nature, from tumours or other morbid growths, through various changes, descending probably to alterations in the ultimate elements of the central organs.

Now, it is to this second form that the cases appear to belong in which epileptiform attacks are connected with chorea; and this conjunction of epilepsy with enorms and interest when looked at in connexion with the attacks sometimes occurring in the course of the same disease. I am not competent to follow the clinical history of mental disorders

to any sufficient length, but I may observe that, between the clinical history of certain forms of mania, especially the choreic and the puerperal, and ordinary insanity, certain striking distinctions appear to be indicated of the same character with those on which I have been dwelling. A case has just occurred those on which I have been dwelling. A case has just occurred to me, which, though proving nothing, may yet serve as a sug-gestive illustration. Six months ago I attended a young lady day I was called to see her sister, who had been confined, and had been attacked with rigors, followed by tenderness over the uterus and over the left femoral vein, but without any cerebral affection. The mother of these two ladies died of some childbed

disease after giving birth to my last patient.

On this account I have connected together a report of a case of epileptiform attacks following chorea and one of mania occurring in conjunction with chorea; but I have further occurring in conjunction with chores; but I have further added the particulars of three cases, probably of the second class of epiloptic statcks, as being mearly connected with one part of the subject I have been discussing. These cases are the practical separation of these two forms of epiloptiform attacks. Two are typical instances of the clinical phenomena which are presented by the epiloptiform attacks due to coarse disease of the central organs, and are closely conformed to the model so clearly presented by Dr. Jackson (Trensections of the St. Andrews McGuila Urndutees Ander entireliation attacks. where); the third is an unusual form of epileptiform attack, by no means conformed to the ordinary type of essential epilepsy; yet in none of these cases can I point to any conclusive proof of the presence of cerebral disease, in the ordinary acceptation of the word, nor of disease elsewhere. The distinction between the two groups has been sought for in the presence or absence of particular symptoms, especially of unconscionsness, of the one-sided nature of the convulsive attacks, of the occurrence of temporary paralysis after the attack, etc. All these distinctions are open to the uncertainty to which every division of disease based merely upon clinical observation is more or less exposed. Even as regards the most typical form of epileptiexposed. Even as regards the most typical form of epilepti-form attacks (those in which the attack is unlisteral and often followed by paralysis), Dr. Jackson, whilst stating "I have had no autopsy in any case of the class of fits which I describe in this paper in which I have not found organic disease," yet same paper in which I have not round organic masses, yet asserts that, apart from appeal symptoms on post-norten examination, the presence of this organic disease cannot be safely predicated. Further experience is needed to decide this question, which yet is one of no small pathological interest, and of much practical importance.

Case 1 .- Paroxysms of Tonic Spasm occurring after Chorea. E. E., aged about 14, had chores at the end of April, 1870. There were no noteworthy antecedents excepting much vertigo. nere were no noteworthy antecedents excepting much vertigo. He has not had rheumatism, and his family history is free from that disease. Syphilis, too, appears to be excluded from family and personal history. The boy is spare and place; the sounds of his beart are feeble; his urine is free from albumen. My friend, Mr. A. thur Bracey, finds his optic dise healthy. The chorea was bilateral, and he became emaclated currently of the control of the control

during six weeks; the movements then lessened, but could not be said to cease entirely. In October he had a return of the vertigo, and is now (February) brought to the Hospital " for a pain in the hands and legs, and the use going out of them." His description and that of his mother are far from being lucid, but I gain that he has had three attacks, in which first the calf but I gain that he has had three attacks, in which first the call of the left leg is drawn up with cramp, and he experiences pain in the region of the left hamstring and around the left inner ankle; but I could not learn if there was any order in the approach of these phenomena. Then the left knee becomes fixed; afterwards it relaxes and the right side is similarly affected; the right hand is next fixed on the wrist, but the left hand except altogether. During the attacks he is very pain, but perfectly conscious; he does not stake the left service of the left of the service of the left o

Case 2 .- Severe Chorca with Maniacal Outbreaks-Consolidation

of the Left Lung.

E. E., aged 16. Her family history is free from rheumstiam and from any form of nervous disease. For the last six months she has been exposed to great privation in consequence of the desertion of her father, and has been much overworked. After an imperfect rheumatic development, indicated by some swelling of her joints—insufficient, however, to keep her at home above one day—which lasted some weeks, she experienced a sudden

d-velopment of chores in a somewhat severe form, and was admitted into the Hospital on February 8, three or four days and the Hospital on February 8, three or four days left fingers, then extended up the left arm and the left side of the neck and face (according to her mother's account), then to the left legt, and in three days reached the opposite side. She was a large, florid, bloated-looking girl; the sounds of her heart were normal.

On February 9 she was placed in a private ward. The preceding night she was stated to have raved very much, and to have been much disturbed. She was ordered acrupic doses of chloral every four, and then every three, hours; a liberal cit of milk and eggs; and six, afterwards eight, ounces of winc. Ur to the 12th the chorea continued violent; the bowels had

Up to the 12th the chorca continued violent; the bowels had been freely unleaded, and the patient took food freely. But the chloral failed in giving sleep; nor did two doses in succession of two scruples of chloral with one scruple of bromide of potassium succeed any better. She was quiet, but did not sleep, except in short nanches of ten minutes, or half an hour at the longest. On this day (February 12) her temperature the lips were cracked and dry; the urine was of high specific gravity (1632), deficient in chlorides, but contained large excess of urea; and it was then discovered that there was dulines at the base of the left side of the chest posteriorly, with feeble breathing, but no other symptom of chest disorder was presented. Two doses of chloral, each of two scruples, with half the quantity of bromide of potassium, were given in succession on each of the two following nights, without any better effect; the contraction of the contraction of

On the loth (seven days atter her admission) sho was annoyed by a visit from her mother, and the movements again became terrific outbreak of mania, which lasted two hour strict panied by a frightful aggravation of her chorsic movements. All attempts to control her having failed, she was at last tied down in bed, and then she at one ful alselep, and awoke in a

more tranquil condition.

She had now become greatly reduced in flesh and strength. The movements were again quiet, but incoordination existed to so great an extent that she found relief in having her hands and feet tied closely to the bed, in order to avoid the disturbance which attended any mascular act. The temperature continued high, and the traine loaded with urea. Moreover, the conjunctiva lining the lids, and reflected upon the globe, was intensely injected, and the eyes were closed with thick mucus. On the She continued quite deranged, at time injet eye was observed. She continued quite deranged, at time a right eye was observed, and talked incoherently. She passed her evacuations involuntarily. Her pupils were rather below medium size, and sluggish. The chest dunies, too, was unchanged, though no fresh symptoms referable to the lungs developed themselves. But all this, time she continued to take nourishment freely.

all this time she continued to take nourishment freely.

On February 19 a blister was applied to the scally, and opium in one-grain dose every four hours was prescribed. From this more grain dose every four hours was prescribed. From the large the scale of the scal

(To be continued.)

THE BOARDING-OUT SYSTEM—At a recent meeting of the Warwick Board of Guardians, the Boarding-out System Committee presented their report, which stated that the system and been in operation more than a year, and has proved successful beyond the anticipation of its promoters. The thirteen children placed out are all in good health, and have in every case met with the greatest kindness and care from their fosterparents.

HEDONISM.

By METCALFE JOHNSON, M.R.C.S.E.

The necrtainty of conveying to another the same meaning which we ourselves attach to a word is one of the failures of language, or, as Reid says, "There is no greater impediment to the advancement of knowledge than the ambiguity of words." (a) And Maudaley observes:—"It by no means follows that because the same ame is given to an idea in two people it has the same value in each." (b) Still, as Browning happily expresses it,

"How else know we save by scorth of words !"(c)

The word at the basding of this paper is intended to express the gratification ("yber) derive ble from satisfying some craving obtained from heredity of ganglionie system, or acquired property of the everbro-spins; but, in order to get at the worth of the word "hedonism," a few examples may be cited of what are ordinarily termed "eccentric persons." The word "eccentric," as will be seen, does not convry the required meaning, for hedonism may be far from being eccentric—as normal healthy theories as a music, art, trade, wine, food, etc. The following case will better explain it:—

A. B., a well-known character in the district in which he resides, about 3 to 40 years of age. His usual costume connists of a rough coat, a shirt, and a pair of "breeches"; no shose or stockings, or hat. He uses a long rough stick to climb the mountains, to which he is an intelligent guide. He has considerable thelent as a paintier, is he hedonise leads him to disregard appearances and the customs of society, and to gratify the cravings for a freat life in the mountains, together

with the Bohemianism of artist pleasures.

Every town or village has its eccentric person. The hermit

of —— is a fern-collector, who occupies the ruins of a picturesque
old mill; his hedonism developes into solitude and botany.

C. D. is a man of middle age, stooping galt, and ungainly walk or sluffle; the has a convergent squint, and is altogether a remarkable-looking man. His clothing is ragged, his hose are footless, and his boots unlaced. He has not also his a bed for twenty years. A man of considerable intelligence, fond of politics, reads the Times or any other daily papers which are given him by his wealthy neighbours or by travellers on the relief. Neivithstanding his stranges appearance, his is much trusted by those who know him, and is always welcome to his bed in the barr, as being a safegrand signist thievas and poachers. His hedonism is truly "Bohemian," and his literary penchant makes him a sort of rudimentary Walt Witman.

E. F. is an eccentric antiquarian, who lives in a state of poverty among his parahments, seals, fossis, soins, acts, act, and, in fact, resembles much the character of Crock the Chancelor in Dickers a "Black Hones." Indeed, the pages of this great novelist teem with examples of disordered hedonism, insomneth that it is difficult to find a normal example out of his numerous creations—a, Mr. Dick with his kite. Peckmiff with his morality, Job Trotter, Jingle, Smike, and Mell.

with his morality, Job Trotter, Jingle, Smike, and Mell.

G. H. was one of those curious creatures (with certain talents) called "ne'er-do-weels." In his sarly life his hedonism telenia called "ne'er-do-weels." In his sarly life his hedonism is the same of the solid property of "Man Dart" in the following the same of the solid property of the same of the following the same of the same of the solid property of the same of t

 ⁽a) Reid's "Essays on the Intellectual Powers of Man," p. 219.
 (b) Mandsley's "Physiology of Mind," p. 110.
 (c) Browning, "The Ring and the Book,"

strange manner "in the ranks." He was a great drunkard. and died in a workhouse. His hedonism always deterred him from industrial labours.

J. K. was a man of considerable talent, whose venereal hedonism caused him to forsake the paths of civilisation and to spend his life among harlots. Having contracted syphilis and drunk hard, he suffered from an incurable ulcer, for which I removed his leg; after which he returned to his old life, subsisting by ans ue; atter wince ne returned to his old life, anosating oy means of his talents for bookkeeping, which he did for certain employers who were unable to keep their own accounts. After a while his habits told upon him; an ulcer broke out in the other leg, and he died in a wretched hovel, attended by an old hag, the partner of his diabolical life, choosing rather to die in his wretchedness than submit to the order and drinkless condition of a workhouse.

L. M. is a young man of gentle nurture, who has the curious desire to follow one of the most revolting trades; and so great is his hodonism in that direction, that he will pay large sums of money for permission to work as a labourer—always, of course, sub road. He will lie in bed thinking of his darling employment, and somotimes rise in the night for the purpose of playing at this dirty trade. He is conscious that in doing so he offending against the rules of society and the wishes of his friends, and states that after a day spent in secret gratification of his hedonism, he is overcome with remorse and disgust, and of the recolusing the state of the resolutions, it is only made to be broken. He has for some time given way to "secret practices," and suffers from frequent acute cephalalgia,

In this and similar cases the brain is not necessarily diseased but subject to some more or less abnormal development of cerebro-spinal or derangement of sympathetic nerve-

cercore-spinal or derangement of sympathetic nerve. To consider the whole body, rather than the brain alone, as the organ of mentation by which a consciousness of the ex-ternal world is acquired and expressed, we must remember that so given the second of the second property of the second property of the must be second or second property of the second property of arcolar tissue its appropriate given by of oil-globules; every artery, vein, and capillary its given put yof oil-globules; and classifiers and overs norw whother second-mental all calculations. elasticity; and overy nerve, whether corebro-spinal or sympa-thetic, its fitting calibre and arrangement, all in exact proportion and aptitude, not only to the whole, but "each to each Indeed, if we consider how the nutriment of a single cell inaced, if we consider how the nutriment of a single cell domands a set of equiliaries of a special character, under the control of a ganglionic filament of suitably power, and that an exertation, as small artery or capillary (See Dr. Bastian "o'Ob-servations, but the property of the over-excitement of the corobra-spinal system by sanitary or mental straining, which would deprive the gauglionic filament of its otherwise due supply of blood, would at once prevent the nutriment of the arcolar, muscular, osseous, or cerebral cell, and that contour, muscularity, gait, posture, and facial expression, all depend on perfect cell-formation for their greater or less normality, we shall then see that a consciousness of these harmonies makes Casar to exclaim -

"Give me men about me that are sleek, Men that sleep o' nights,"

in contradistinction to "the less and hungry Cassius;" makes us to understand how "the fair round belly "demands a solar plexus which so guides direction as to cause the development of fat from well-assimilated ingests. It is this which shows of lat from wear-assimated ingests. It is thus which shows us how the cold grey eye requires a muscularity to supply the demands of a brain in harmony with this "window of the soul;" or the large glutel and gastroenemi of the flect runner and jumper demand a flexible nostril and an expansive chest.

We then see how impossible it would be for an artist to re-We then see now impossible it would be for an artist to present Pickwick as lean and gaunt; Nowman Noggs, as a "little, grey, fat man;" "Miss Cammysolo," as a buxon street of the present process of mentation may be examined as one of the see that and dumpy. Under the process of mentation may be examined as one of eall metasurephosis or molecular change; and if we examine cell-growth through the light of Dr. Lionel Beale's interesting treatise on "Protoplasm" (always avoiding some of his deductions), we are led to a series of conclusions, which may be briefly summed up as follows:-

Live is a phenomenal condition of some forms of matter, without which cell-change cannot take place. The examination of cells, from monads and infusoria to brain, reveals a unity of law of which the successive characteristics (in the unit condition) are simple blastoderm, bilateral division within a primordial utrielo (gleocapsa), contraction of cell-wall, amor-boid protrusions, and ciliary development.

All cells possess two properties-nutrition and reproduction.(d)

The accidents in the life of a cell modify its resultant form The accidents in the life of a cell modify its resultant form. (See Monthly Microscopical Journal, January and April, 1870.)
Cell-formation is closely associated with the process of climination, which is a homologue of reflex action and sensation. (See the following table.)

Homologues.

Organ.	Deposited structure.	Ultimate product or function.
Skin Mincous membrane Lieberkuhn follicle Salivary gland Pancreas Liver Kidney Muscle Sympathetic nerve Cerebro-spina Convolutions	Stroma Stroma Lobules Malpighian corpuscles Sarcous particles Ganglia Tubes and polar cells	Epithelial cells Mucus Intestinal mucus Saliva Pancreatic juice Bile Urine Contraction or force Arterial control Reflex action Sensation

By examination of the organs and changes concerned in the nerve message, we shall see that the production of mentation by means of cell metamorphosis is merely a modified form of a of means of cell metamorphosas is merely a momnet form of a simple "reflex act." In order to produce a perfectly normal result from the cell metamorphosis, "the sum of the fore-centres termed body" (Owen) must be in a condition of health, and any aberration (congenital or pathologic) will produce an

abnormal result (a disordered hedonism),

The parts concerned in the nerve message are :- Nerve tube. The parts concerned in the nerve message are:—Acree tupo-(containing pulp), surrounded by white matter of Schwam; ganglion at posterior root of spinal nerve; grey matter of cord (containing polar cells); tube of spinal nerve; medulla oblongata, thalamus opticus, and corpus striatum (containing obiongasa, mamma opucus, and corpus arranum (containing polar cells); efferent nerve communicating with sympathetic; ganglia of sympathetic; branch of sympathetic to arteries, and explinaires to grey matter of corrolutions, as well as intra-fluoring grey matter of cord and central ganglia. The present produces of connection of nerve tubes with polar cells is much pridence of connection of nerve tubes with polar cells is much in favour of both afferent and efferent communication (Bowman). We may, therefore, snggest that the wave of force passing through nerve tube to polar cell (in cord), excites in that body a change, which proceeds, by a second or efferent that body a change, which proceeds, by a second or efficiently tubular prolongation, to ganglion at posterior root, which yits control of capillary circulation (more free around polar cell, by its control of capillary circulation (more free around polar cell than white matter [Bowman]), secretes, by dialysis, between blood cells and polar cell, a force, which passes by efforem to blood cells and polar cell, a force, which passes by efforem the spinal cord, the muscle directly or, passing along the tubules of spinal cord, the polar cells around t simple reflex action on the muscle directly, or, in the second, a communication which expresses itself in sensation and what is termed a "volitional act." But, as has been before observed, this result, to be normal in character, demands a perfect nomality in the organs on which the "choses extérieures accidents of life) act; and when we come to enumerate the intra- and extra-uterine causes of variation, it will at once intra- and extra-uterine causes or variation, it will at once
appear that it is next to impossible for any two persons to be
so formed and influenced by these result extra as to educe equal
volition—and hence to profunce the perfectly normal charactery—
unless the norma or law be calculated from an average of --unitees the norms or law be calculated from an average of specimens rather than from any given type. Considering pangenesis (Darwin) and heredity (Hackel), we are prepared to expect an equally infinite variation and consequent mod fiention of experience.

The intra-uterine causes of variation are—syphilis in remote neestor, producing scrofula et hoc genus omne morborum; syphilis in male and female parents; influence of previous gestations (zebra foals); family resemblance of uncles, aunts, etc., in muscularity, contour, etc.; musical taste and colour-blindness, derived from remote ancestors; consanguine marriage; choses extérieures on pregnant mothers (Laban's flock); consumptive father, mother; secret vices; drunken fathers, mothers (see Duncan and Millard); hereditary or acquired intellectual developments—father, mother; fatigue, mental and bodily, in generative process;

(d) Motions have been seen by Schwarm among the granules of the hen's critical air documentation of the cell (Total and Bowman's "Physiology").

mesmerism in female; affection for persons other than the father (see horses). The extra-uterine causes are—fright, anger, etc., on mother's milk; wet nurses, cows, asses, and goats milk in "hand-fed" children; climatic, geographical, atmospheric, and educational influences.

cancational influences.

Now, considering that every person, thing, or circumstance
that obviates or surrounds an individual is a "chor sticrieure" to
him, and will so act upon him as he is prepared to receive
its influence, then the hedonism of a man is the spiritual expresion of the sum of the force-centres termed body (Owen).

There are numerous varieties of hedonism, such as the normal of "common sense," the instinctive of the sympathetic nerve, gastric, alcoholic, and venereal; and those which belong to the region of cerebro-spins or experience (hereditary instinct of Darwin), such as of music, colour, form (art), money (misers), wealth, power, admiration, etc.

Under this view of society, we see that the comparatively Under this view of society, we see that the comparatively non-volitional nature of an action educes from us that "charity" which "thinketh no evil" but "hopeth all things," and will make the thoughtful among us strive "to guide the erring into the way of truth, "not by the demoralising influence of "prison" ethics, or the refined cruelty of "shot trill" and the "solitary cell," but by encouraging self-interest—"the first law of nature "(see Helvettus)—to teach the stubborn ass to win the race by the enticement of the preventent enblage rather than the painful stimulation of the compulsory stick. Lancaster

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

WESTMINSTER HOSPITAL.

OPERATIONS.

Ligature of Nævus-Removal of Tumour from Breast-For Harelip-Removal of Epithelioma from Scrotum, and of Nasal

(By Mr. FRANCIS MASON.)

Wr had the pleasure of strending to see the action of persisten at this Hoppital on Tuesday. Attending to see the Macon operated upon some patients from his wards. The first was a buby, with a merus aprending over the left cyebrow. This Mr. Mason tied with the knot known as "Fergusson's knot," a measure which he always adopts in the treatment of newt, and with whose results he is well satisfied. His next case was one of doubtful diagnosis. A woman in the decline of illie came under Mr. Mason's observation, with a hard nodulated tumour the size of a large walnut, situated at the extreme outer margin in the or to breast. From its rapid growth, and from the acute pain attend-ing it, Mr. Masom deemed it probably of a scirrhous nature, although its free mobility and want of any attachment to the skin rendered its cancerous structure doubtful; and the diagnosis skin rendered its cancerous structure donotful; and the diagnosis was not sided by a lymphatic gland in the axilia, which was dis-tinctly indurated and slightly enlarged. The doubt was dispelled, however, by a jet of thin fluid shooting across the theatre as the scalpel pricked the tumour during its removal. It turned out to be a thin walled, very tense cyst, developed apparently in the margin of the atrophied breast, and with a singularly fasciculated lining, which had cussed its nodulated form, instead of the usual smooth ovoid shape of these cysts. A bit of gland tissue imbedded in its wall thickened it at one part, and lent weight to the idea that the cyst was formed by a dilatation of some of the gland acini.

A good-looking sailor was next brought into the theatre in order to have some improvement effected on a harelip, which had been clurnsily operated upon in childhood, and which now caused considerable disfigurement by means of its wide scar interrupting the moustache and notching the lip. Mr. Mason simply cut out the scar, and brought the edges together with harelip pins in the usual manner.

The next case was one comparatively rarely seen nowadays -namely, "chimney-sweeps cancer" of the scrotum, occurring in a bond fide chimney-sweep. The time has not long passed since no little disturbance was created by the endeavour to ameliorate the condition of chimney-sweep by an Act prohibiting since the condition of chimney-sweep by an Act prohibiting as the employment of "climbing boys"—the one party using as their atrong argument the "spreading of a loathsome disease", by the existing system, whilst the opponents of the course, missions lest their chimneys should suffer by the rub-

stitution of machinery, raised an opposition as foolish and inhuman in many respects as that now declared by the Anti-Contagious Diseases Act party. As a matter of fact, the passing Contagious Diseases Act party. As a matter of fact, the passing of the Chinney-Sweeper Act has made what was formerly very familiar disease to Hospital Surgeons a happily rare familiar disease to Hospital Surgeons a happily rare characters of epithelions of the scrotam—the ragged growth being about the size of a shilling, after some years duration—and the disease was simply out wave by Mr. Mason, the edge of the wound being brought together with harelip pins. Finally, Mr. Mason removed a rather large name plotypus from Finally, Mr. Mason removed a rather large name plotypus from

an old man, on whom he had operated more than a year pre-

viously for the same complaint.

We were surprised to see that, with all the other theatre arrangements in such admirable order, the use of the old-fashioned stretcher is still adhered to in this Hospital. One is so used nowadays to the canvas sheets laid on the operatingtable, into whose sides poles are thrust by the porters, who so carry the patients comfortably back to bed, that it seems like a carry the patients connortably back to bed, that it seems like or glimpse into past days to see a stretcher brought in, laid or glimpse into past days to see a stretcher brought in, laid or down like a "drunk and disorderly" police subject, for re-moval to the ward. This is surely the least comfortable commendable way of transporting sick folk, and we wonder that it is still employed anywhere.

UNIVERSITY COLLEGE HOSPITAL.

STRICTURE OF THE TRACHEA FROM SYPHILITIC ULCERATION.

(Under the care of Mr. ERICESEN.)

(Under the care of Mr. ERICHDEAL)
HENRY J., a brushmaker, aged 38, was transferred to Mr.
Erichsen's care from the Physicians' Ward on January 28,
1871, in order that tracheotomy might be performed for the relief of considerable dyspness, due to laryngeal obstruction. presumedly of syphilitic origin.

The history was that seventeen years ago, whilst in the army, a hard indolent bubo appeared in the left groin. This army, a nard induced todo appeared in the test grow. Answas unaccompanied by any sore, nor could the man remember having a sore at any previous time. His general health had always been excellent. The bubo was poulticed by order of the regimental Surgeon, and painted with iodine. After some the regimental Surgeon, and painted with iodine. After some weeks, as it did not open spontaneously, it was lanced. No pus escaped, however, nor did any suppuration ensue, although it was kept poulticed for a considerable period. He was then put on a course of mercury and hot baths, and kept salivated for some weeks; but he was at the same time swelled very much (this overling the man affirmed had never output disappeared; and even now the limb was formed to quite disappeared; and even now the limb was found to measure one and a half inches more round the calf than its fellow). As the bubo gradually subsided, an ulcer formed above one ankle, and this eventually brought about his discharge from the army. This sore did not heal until nine years ago, when patient married, and he continued free from any venereal symptom until two years ago, when an ulcer appeared on his forehead, and shortly afterwards, during a fit of sneezing, a purulent discharge took place from the nose, and continued during two months.

Whilst under treatment for this by iodide of potassinm, a fresh sore opened in the neck, and bone was exposed in the ulcer on the forehead. Since that time various other syphilitie symptoms have appeared, and in the summer of 1870 he was admitted into this Hospital, under Sir H. Thompson. who operated on an old-standing anal fistula; and whilst taking who operated on an old-standing ama instula; and whilst taking iodide of polassium at this time, another deep sore formed on treatment by the Physicians for cough, dysphagis, and difficulty of breathing; this last being specially severe at night. Syphilitic laryngifis was diagnosticated, and iodine inhalations and iodides, etc., were ordered, but without producing any marked change in the symptoms.

The state of the patient when transferred to the Surgeons' Ward, as taken by Mr. Marcus Beck, was as follows:—"The patient has considerable difficulty of breathing, but there are passes nas considerate difficulty of breathing, but there are no marked signs of suphysia. He has no spassus nor paroxysmis of dyspinca; the difficulty is constant. He has sears of old syphilitic series on the forehead, and there is a cicatrix at the root of the neck, over the end of the left clavicle. The end of root or the neck, over the end of the left clavicle. The end of the clavicle has apparently necrosed and come away in part. The cicatrix stretches over the traches, which can be felt immediately beneath it. It feels as if there were a deficiency in the rings at this side opposite the scar, and on inspiration a distinct hollow is produced at this part. On swallowing there is no vertical movement of the larynx or traches. On suscultation the greatest amount of strider is heard immediately above tion the greatest amount of strador is heard immediately above the top of the sternum. His voice is hoarse, but not markedly so. A laryngoscopic examination has been made, but no dis-case detected above the glottis. The vocal cords were entire, and white and sharp at their edges.

Mr. Erichsen, deeming the obstruction insufficient to call for operation, at once put the man on a generous diet with tvi. of wine, and ordered a mixture containing hydrarg. bichlor. μτ. 14, and potass iod gr. v., to be taken three times a day. Under this treatment the man notably improved, but by the Chief this treatment the man notably improved, our by the end of a fortnight he was slightly salivated, so that the mercury was discontinued to be replaced after a few days by pot. iod. gr. v. in dec. cinch. ii., t.d.s.

The patient continued to improve, and was discharged on

March 6, not wholly well but greatly relieved.

ROYAL FREE HOSPITAL

CONGENITAL SCROTAL HERNIA IN A CHILD EIGHTEEN MONTHS OLD STRANGULATED TWENTY-FOUR HOURS-HERNIOTOMY WITHOUT OPENING THE SAC-RECOVERY.

(Under the care of Mr. JOHN D. HILL.)
Ms. Francis Lerr, the House-Surgeon, has kindly furnished the following notes :-

W. C., aged eighteen months, was brought to the Hospital with a strangulated congenital scrotal hernia, which was characterised by the usual symptoms, but in addition there was a quantity of fluid in the occluded tunica vaginalis. The usual

means of reduction having been tried and failed, Mr. Hill proceeded to operate, after the child had been placed under chlo-roform, by making an incision an inch and a half long, commencing just above and slightly to the outer side of the external ring, and extending downwards to the scrotum. With a small scalpel, the more immediate coverings were divided on a director. and so the hernial sac reached, when Mr. Hill insinuated the director, and along this a hernia knife, under the conjoined sendon, which he slightly incised, and then endeavoured to return the viscus, in which he was successful. Suture and return the viscus, in which he was successful. Outure and strapping were used to close the primary incision, a pad and a handage being fixed over all. The patient was placed in bed, and one-minim doses of tinct, opii ordered every four hours.

February 16 .- Patient doing well; no more vomiting;

bowels acted once freely.

weis acced once trees.

17th.—Wound quite healed by first intention.

Mr. Hill carefully avoided opening the sac, because he arr. Hill carefully avoided opening the sac, because he thought the fluid therein had protected the viscers, so that the constriction of the neck of the sac was not such as to cause apprehension of any perforation of the intestine, and considering the rate of mortality in opening the peritoneum as

without the sac. It may be observed that the internal ring was drawn almost directly behind the external, and that there was thickening about the internal ring, a truss having been worn for some time.

HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, BROMPTON.

CASE OF MITRAL OBSTRUCTIVE DISEASE (FUN-NEL-MITRAL), TERMINATING FATALLY, WITH CEREBRAL COMPLICATION; WITH REMARKS

ON THIS FORM OF HEART DISEASE (Under the care of Dr. R. DOUGLAS POWELL.)

THE following case is interesting from its being a very typical one of mitral obstructive disease uncomplicated with regurgitation, and from the peculiar nervous symptoms with which it terminated.

B. B. came under the notice of Dr. Powell as an ont-patient at the Brompton Hospital, in March, 1869. He was aged 23, of healthy parentage, and had enjoyed good health, with the exception of an attack of diphtheria, until six months proexception of an attack of diphtheris, until mx months pre-viously, when he caught a severe cold, and had since suffered from shortness of breath and palpitation, with cough and ex-pectoration. He had never had rheumatism. His symptoms had become lately more serious, and he had been unable to follow his employment as an ostler for a fortnight. The ex-

pectoration had been tinged with blood the day before he came to the Hospital. The pulse was moderate and regular, and the digestive functions undisturbed. He had, however, been getting thinner for some time. The patient was short in stature and slightly made: the face somewhat puffy, but there was no and slightly made; the face somewhat pury, but there was no odema of extremities. On inspecting the chost, the sternum was slightly prominent, and the lateral region flattened. The cardiac apex-beat was in the sixth interspace within the nipple line. Cardiac dulness increased, commencing above at the third nne. Carune cauness increased, commencing above at the third ribnipple-line, and reaching to three-quarters of an inch to right of sternum at nipple level. The cardiac impulse was attended by a marked thrill, and proceeded by a long blowing murmur, which occupied nearly the whole of the interval of pause, and terminated abruptly with the flap of the mitral valve. There were some largish clicks and coarse crepitation scattered over the right lung, but no dulness was detected on percussion. The diagnosis was mitral obstructive disease and pulmonary

congestion, with probably some pulmonary apoplexy.

Counter-irritation was ordered to the right side, and a mixture given containing iodide of potassium, iron, and digitalis. Under this treatment the patient improved considerably, but a further rest in the Hospital was desirable, and he was admitted

in June.

In February, 1870, he again came under Dr. Powell's care, having continued pretty well until the last month, when the old symptoms again returned. He had occasional slight hemoptysis; the pulse was rather quick, but regular; there was some fulness in hepatic region, but no dropsy, nor any notable alteration in physical signs. He continued under treatment until September, when he was again admitted into the Hospital under Dr. Sanderson.

In July, there was some cedema of the legs, and a slight icteric tinge of conjunctiva, with dyspeptic symptoms; and in

August diarrhoa.

On admission, the odema of the legs had disappeared, but the dyspacea and palpitation distressed him on the slightest exertion. He greatly improved, however, in every respect until November 8, when, after some exertion, a severe attack

until November 8, when, after some exertion, a severe attack of dyspuces and rapitation came on, with oold, clasmy sweats and rapid, feeble pulse. In the evening, pulse 124; temperature 98-47; respiration 52; crepitation throughout both bases. By December 14, the pulmonary signs had much diminished; but while at dimner he felt giddly, and went to lie down. After an hour's quiet, howover, feeling better, he again got up to complete his dinner in the ward; the giddliness returned, he felt his heart give two "jumping beats," and that he had lost all power in the right side, and then became insensible, in which condition he remained for half-an-hour. On returning to consciousness, Mr. Bartlett, Assistant Medical Officer, noted that the paralysis was complete (both motor and sensory) on the right side, but without any deviation of the tongue. Pupils and pulses equal; temperature 98.

Dr. R. Thompson, under whose care the patient was at this time, in Dr. Sanderson's absence, considered that the symptoms were due to embolism of one of the cerebral arteries.

time there was almost complete sphasis.

The last note of the cardiac murmur was taken on the 19th, and agreed in all respects with what Dr. Powell had before noted—riz., that there was a presystolic nummur commencing immediately after the second sound, and increasing in intensity up to the first sound, with the shock of which abruptly terminated. The pulse at the wrist followed closely upon the systolic shock, and then the second sound, after which the murmur commenced again. On passing the stethoscope towards the acrtic cartilage, the murmur gradually faded, and the second sound became more distinct; on similarly passing towards the scapular angle, the first sound, though very audible at apex, became more distinct by being less complicated by the lond presystolic murmur. December 15.—Slept moderately well; complained of head-

ache. Muscular power and sensation have returned to a great extent in the right side. Tongue furred; pulse 88; tempera-ture 98'. He somewhat improved. While keeping perfectly quiet in bed there was no alteration in the heart's sounds

On the 20th there was a slight rise of temperature (98.8°); He had passed a restless night; tongue furred; bowels confined; face flushed; pulse 100.

21st.—Headache, severe, throbbing; temperature had risen to 102°; face much flushed; some coarse crepitation at left base, but no dulness; pulse 102; respiration 30.

22nd.—Power again diminished in right arm; temperature

105-8°; pulse 140; respiration 50; lung signs not more decided. 23rd.—Very restless; bilious vomiting; headache; temperature 103.4°.

The temperature continued between 101° and 102° until the 26th, the patient gradually failing, with occasional slight delirium, quick, feeble pulse, very rapid breathing, and on the 27th he died, after a very severe attack of dysmosa.

27th he died after a very severes stated of dyspinos.

On post-mortem extamination, the brain was found generally healthy and somewhat amendo, the train was found generally healthy and somewhat amendo, but the anterior and inferior portion of the middle lobe of the left cerebral hemisphere was softened, and, indeed, broken down into an irregular cavity. The softened brain substance was nowever, very amenic and traced into its substance, were not obstructed. The heart was large, and weighed 14 oz. The right arricle was bypertrophied and dilated, its museular substance being to the wind of the substance, were corn clot. The right vertricle was bypertrophied and dilated, its museular substance being to the window approximation of the proper substance of the window of the proper substance of the strength. The left anried was greatly dilated, and its walks much thickened and mascular. The mitral valve projected as a shallow funnel into the ventricle, having at its sper, a slicit like appearing thicken and the substance of forms and the substance of forms pulmonary appellary muse found. The other organs were healthy, with the exception of the sphere, which presented two hencompagic infarter to old date and alranked.

presented two hemorrango intarcts of our date and surunken. Remarks by Dr. Powell.—There are three points of particular clinical interest in this case—lat, in connexion with the physical diagnosis; 2nd, the origin of the disease; 3rd, its termination with brain symptoms and remarkable elevation of

temperature.

The funnel-mitral, though one of the rarest forms of heart valve diseases, is not, absolutely speaking, very uncommon; it in, when present, marked by very characteristic signs. A pro-longed presystolic murmur, occupying almost the whole of the pause and terminating abruptly with the sharp first sound, is most generally pathognomonic of this form of disease. The conemost generally projecting into the ventricle, having at its apex a small button-hole slit, is readily and completely closed with the contraction of the ventricle, admitting of no regurgitation, and hence the first sound instead of being accompanied by a bruit is often more sharp and pronounced than natural. In the more common form of constricted mitral, on the contrary, where the mitral valve is stretched across the auriculo-ventricular orifice like a rigid diaphragm, having a slit-like opening with margins of cartilaginous hardness, very often uneven and roughened by cretaceous deposit—in this form of disease the presystolic nurmur, more or less ill-defined, is followed almost invariably by a high-pitched and often squeaking lowed almost invariant by a mign-principle and orient-squeezing systelic bruit. The presystelic murmur is, I think, in these cases never so prolonged, and is often not to be distinguished, being masked, no doubt, by the subsequent more obvious murmur. The marked hypertrophy and induration of the right ventricle is in cases of funnel-mitral disease in marked contrast with the perfectly natural condition of the left ventricle—this ventricle having, indeed, rather less than more work to do. I have thought the funnel-mitral the form of heart disease peculiarly of non-rheumatic origin, but in this view the experience of Dr. Fagge, recorded in his interesting paper in the present volume of the Guy's Hospital Report, does not altogether bear me out; and among the several cases which have been published in the Pathological Transactions there are a few having a distinct rheumatic origin, so that my experience may be somewhat exceptional in this respect. In the majority of cases, however, there is no history of rheumatism traceable,

and the post-mortem appearances are much more in accordance with its being a congenital disease or malformation.

I am unable to give any sufficient explanation of the great elevation of temperature which preceded death in this case. Around the softened portion of brain, which, I presume, must have been the result of minute embolism, there was no inflammatory redness—indeed, there was a state of marked functional control of the property of the functional control of the property of the property of the accord with Dr. Pagge's remark on the frequency with which mitral constrictive disease is associated with blocking of

systemic vessels.

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Medical Times and Gazette.

SATURDAY, APRIL 8, 1871.

THE SMALL-POX EPIDEMIC.

THE registered mortality from small-pox in London fell last week from 20 to 192, and in Liverpool from 97 to 73. After distributing the Hospital deaths, the Registrar-General perceives but slight variations from the numbers in the previous week, but notices the fatal prevalence of the disease in St. Pancras, Shoreditch, and Bethnal-green. The Health Officers' returns of fresh cases seem to show a diminution in the number of fresh cases in St. Pancras, as well as in the adjoining parish of Islington.

Much as we have been suffering from small-pox in London and Liverpool, our outbreak will bear no comparison with the severity of the disease in some of the larger towns in Holland during the month of January last. We are informed that "in Rotterdam, of 605 deaths, showing an annual death-rate of 50 per 1000, 205 were fatal cases of small-pox, in Utrecht the 365 deaths included 162 from small-pox, and gave a death-rate of equal to 72 per 1000; and in the Haque, of 616 deaths, abec resulted from small-pox, and the annual death-rate in the month was equal to 82 per 1000 of the population." Here, then, we have in one town about a third, in another nearly one-half, and in another more than three-fifths of the deaths in the month of January arising from the attacks of this epidemic malady.

Two useful popular expositions of the doctrines held in the Profession with respect to the protective power of vaccination have recently appeared, which ought not to be allowed to pass without notice. The one is a speech made by Dr. Carpenter, of Croydon, at a recent meeting of the local board of health, of which he is an active member. He took occasion, on the presentation of a report from the sanitary committee, to refer to certain assertions made by the City Press on the subject of small-pox and vaccination, which he thought it his duty to answer, especially as that journal has an extensive circulation in his neighbourhood. The first assertion he combatted was that the Medical Profession had no proposal to reduce the ravages of small-pox within the limits of scientific control, that vaccination is no longer the safeguard it has been, but has broken down and become a "miserable sham." Against this he adduced the recent outbreak of small-pox in St. George's Hospital, where seventeen cases occurred by contagion from a case accidentally admitted, and fourteen days after its removal. That very day every servant, nurse, Medical man, and student connected with the establishment was vaccinated, and, although the seventeen patients were treated in the Hospital, not a single case occurred afterwards. His second argument was derived from the oft-quoted experience of Mr. Marson; and his third from the experience of his own private practice and that of other Medical gentlemen in Croydon, who, being careful that their whole clientile was properly vaccinated, had not had a single person fall a victim to the disease. The Profession had nothing new to say upon the subject; they rely upon vaccination as they always have relied on it, submitting themselves and their children to the operation in assured confidence of its success. The second assertion of the City Press was that vaccination was very clumsily performed, and the writer held the Profession responsible for this carelessness. Dr. Carpenter's reply was that, prior to the Compulsory Vaccination Act, Medical men were in the habit of vaccinating people gratis, preferring this unpaid work to the attendance upon small-pox cases among the poor; and he pointed out that, when vaccination was made compulsory, the miserable pittance accorded to public vaccinators has been such that it would not pay them to look up unvaccinated persons at their houses, so that large numbers of children went unvaccinated altogether, furnishing pabulum for repeated epidemics. The third assertion he combatted was, that the lymph now used has lost its power by frequent transmissions, and has now become Dr. Carpenter denounced this as a fallacy on the face of it. If a man sowed oats in his garden, oats would come up, and not something else; and so, however often vaccine was sown upon the human body, nothing but vaccine would be produced. The analogy was complete. In our opinion, Dr. Carpenter has done good service, and his example is worthy of imitation by persons having the necessary knowledge, and sitting upon guardian boards. The other exposition we refer to is put forth in the form of a neat pamphlet, by G. Oliver, M.B., of Redcar. It is entitled " Plain Facts on Vaccination." The pamphlet is well put together, and concise, as it ought to be for its designed purpose. All we have to do in commending it to our readers is to warn them against an exaggeration where the writer alludes to vaccinations performed from the heifer. No one of any anthority, that we know of, has advocated the substitution of heifer vaccination for vaccination from arm to arm in this country. The utmost that has been recommended has been the maintenance of a vaccinated heifer, from which Medical men might, as occasion arises, renew their supply of vaccine. Dr. Oliver greatly overstates the failures in vaccination direct from the heifer. No doubt during the panie in Paris they were excessive, because the inoculations were made with a haste and a want of care scarcely decent. But carefully and deliberately performed, with a due selection of the proper day for taking the virus, vaccination from the heifer, though not so invariably successful as good arm-to-arm vaccination, nevertheless rarely fails. The non-success at Rotterdam is stated by Dr. Seaton at 12.3 per cent. Our own opinion is that this even is in excess of the average, where the vaccination is performed as it always ought to be, when using heifer virus, by free scratch-

ing and deluging the scratched surface with the lymph. THREE-HALFPENCE A-DAY.

Wis sometimes see newspaper paragraphs headed "Seasonable Beneficence," or "Anonymous Munificence," and announcing that some unknown friend of humanity has sent £1000 to the Reduge for the Destitute, or to the Middlesex Hospital; and, peradventure, we may see in the "agony" column of the Times an acknowledgment from the secretary of some special Hospital of some similar huge donation sent by a benefactor unknown.

All this is very laudable. Rich men, who have thousands lying idle at their bankers, do well to provide the managers of Medical charities with the means of relieving the sick. The unknown donor most likely thinks within himself that he known personally of no deserving and destitute persons, and that he cannot select better almoners than that band of Medical officers to Hospitals and dispensaries who are devoting their time and skill to the relief of the sick-poor.

But we may tell these anonymous givers that their benevolence halts half-way. If they were to inquire, they might find out that it ought not all togo to the sick-poor through the Medical Profession, but that some of it might well be bestowed on the families of the less fortunate members of that Profession who have been left without provision.

We are writing with the prospectua before us of the Society for the Relief of Widows and Orphans of Medical Men, which is now relieving 111 widows and children of decessed members, at the rate of nearly three thousand pounds per annum; and it is well known that the recipients of this bounty are drawn from all ranks of the Profession, and sometimes include the families of those who have held high places as Hospital Medical officers and teachers in Medical schools. We venture, therefore, to suggest to those benevolent rich men who give away their thousands that the Society we have just named would be a titing vehicle for charity to the families of those who gave their services without pay to the sick and needy. Nor need we hesitate to add that there are few of us, whether attached to institutions or not, who do not contribute our full share to the work of benevolence.

The Society for the Relief of Wildows and Orphans partakes of the nature partly of a mutual insurance and partly obenefit club, and confines its relief to the families of its own members. But then its area is a wide one, including London and the counties adjacent, and one might reasonably expect, from the advantages it offers, that its list would be full and increasing. A contribution of two guinces per annum, continued for a certain number of years, or a proportionate sun paid down, and a good character, are the only conditions of membership, and on these easy terms any man may make morally sure that his widow and children can never be destitute. Widows and unmarried daughters receive pensions, and sons are sided in their start in life, and these privileges are guaranted by the fund of nearly £70,000 which the Society has accumulated.

Who is there, it may be asked, that cannot spane £2 2s.
a-year, which is less than tempence a-week, or three-halfpence
a-day, to save his family from all chance of destitution? Why
is it that we receive, from time to time, those harrowing letters
describing the death of some old college friend, leaving widow
and children absolutely dependent? Why are we told by the
Society that the number of members is rather on the decrease;
whilst, peradventure, the fruitless and despairing applications
for aid for the families of Medical men who have not been
members are incessant? How much such a society is needed
is clear from the fact that in one year twenty-one members
did and the families of eight applied for reide.

If the truth were told, it would be that most young menbefore marriage never give the matter a thought. When they marry they trust to their good fortune; they expect to make money or to inherit it; whilet, alsa! there is a large number of men whose increasing family swallows up overy penny of their hard-earned income, and who, when they recognise the necessity of making prevision, find they cannot. To some men it is unfortunately useless to speak of thirty guineas down, or of two gaineas a-year, or tempence a-weds, or three-halfpence a-day. Their work may be laborious and their gross incomes large, but every penny is appropriated before it is earned. The year's balance is a minus quantity, and whether ten pence or ten pounds, the attempt to take it out of an empty exchequer is fruitless.

We do not hesitate to urge our younger readers to make themselves life members of this Society at once, with the assurance that it is rash to wait. Time may bring a larger income, it is true, but it is also sure to bring an increase of claims. Every young man is quite right in looking for success —life would be intolerable without such hope—yet prudence dictates that the rocks ahead, the causes of failure, should not be left out of the calculation.

It may be profitable just to glance at some of the causes of failure in Medical life. Health may break down; and, to say nothing of accident, the very strongest may succumb to the fatigues, exposure, and anxieties of Professional work. It is difficult to save; but when money has been hardly saved, it is often recklessly invested, and some treacherous shares, or funds, or society (limited), may sweep off in an hour what it has taken a lifetime to save. Expectations from friends are more treacherous still. There is poor -, the Surgeon, who was telling in all the Societies, a few years ago, how his wife's father had married again at 76, and had cut the names of his ten children out of his will. Some men embark their all in an unlucky house and neighbourhood; they do no good where they are, and yet are utterly unable to move. One young man buys the skeleton of an old, worn-out practice in an old, worn-out neighbourhood, where all the old patients are dying off, the younger ones move out of town, and the streets become filled with lodginghouse-keepers, who are usually models of impecuniosity-for who would keep a lodging-house in a decayed neighbourhood if he could help it? Some men lose their practice because a whole district of houses is swept off by a railway terminus or new bridge. Marriage is a terrible trap to many. A simpleton, who is not doing well, has heard that married Medical men are more popular than single ones, and thinks that he shall mend his fortunes by marriage. But we may assure him that, if he cannot get practice enough to live easily as a single man, he is not likely to better himself by adding a wife and children to his responsibilities. Some men, we do not hesitate to say, do not get on because they have not studied their Profession in a sufficiently practical manner; they are not good stethoscopists or accoucheurs, or they may know nothing of the eye or of mental disease, and thus may miss many a chance of distinguishing themselves in general practice in the country. Anyhow, we would advise our younger readers, before they marry, to make themselves Life Members of the Society for the Relief of Widows and Orphans. If their families need it, they are sure of relief; more blessed if they need it not, they will be conscious of having relieved others.

PARISIANA.

CAMERON STUART MACDOWALL, Surgeon to the 3rd Bombay Light Cavalry, a true soldier, his veins boiling with the hottest Celtic blood, the spoiled child of Mars and Venus, and a living example of those heroes whose achievements shine in the pages of "Harry Lorrequer," has given the world his experience of the siege of Paris.(a) Finding himself at home on leave at the outbreak of the Franco-German war, in spite of a tremendous dysentery which crippled him, he sniffed the battle from afar like Job's war-horse, and started for Paris. There he was held fast by illness till the siege began, and when he was well enough to move there was no getting out. So he volunteered to act as Surgeon to the 37th Battalion of the 12th Regiment of the Paris National Guard, served in the defence of the ramparts, accompanied his regiment in the chief sorties, the affair of Bourget, etc., and, just as the siege was over, fell ill with small-pox, escaped with half-a-dozen pimples (he was revaccinated a few weeks before), rushed back to London, committed this wonderful book to the press, and has given it to the world, as he says, without revision.

We call it a wonderful book, for we never before met with so

rich a variety of matter between two covers. We have heard of an olla podrida, and of the dish which the Parisian beggars in " Les Mustères de Paris" call a harlequin : scraps of broken victuals, where every man can find a bit to his liking-the drumstick of a fowl, the tail of a fish, and a bit of cheesecake mixed up with a few olives, a bit of bacon, and the claw of a lobster. So in this wonderful book, philosophy, poetry, music, hymns to Victor Hugo, solid arguments in favour of hereditary monarchy, the air of a Breton melody, prophecies (which our author claims to make by virtue of being seventh son of a seventh son, and a second-sighted Highlander to boot), disquisitions on the origin of evil, hair-breadth 'scapes, foolhardy adventures (such, by-the-bye, as a soldier ought to have been put under arrest for indulging in), private conversations, praises of beauty, and the statistics of Parisian mortality during the siege, are to be found in the 141 pages between the two covers brilliant with the tricolour flag, and embellished with the figure of a handsome girl said to have been cut in two by a Prussian shell during the bombardment. In one page, if we dip at random, we shall light on our author's firm belief inthe dual or Manichean doctrine of two eternal beings-one good, the other evil-with the assertion that God is not omnipotent! He says he is a Roman Catholic, and so, we hope, will meet with a mauvais quart d'heure next time he goes to be shriven. He says that the reason the Catholics so venerate the Madonna and child, is that they represent the Deity as having mercy, but not power. This is curious, but we doubt whether Catholics will accept it as true. He was educated at the College Bourbon, in Paris, and tells a capital story of the conference which one of the Professors used to deliver on the subject of Celtic names. He gives a dissertation on the guillotine, with a new plan for the summary execution of criminals the moment they are found guilty. MM. les condamnes will not thank him. He tells a touching story of a poor dog that licked the hand that soon made him into soup. "La soupe fait le soldat" is a proverb to which he gives the dementi. "Soup," he says, " is the ruin of the French army; it takes four hours to make, at the least. Hot coffee, steaks, chops, or cold cooked meat" are the things for marching-days. "Horse," he tells us. " is excellent when stewed or boiled for quite eight hours. It is unpalatable when roasted or broiled. It is purplish when underdone, and the fat has an ochre tinge. I steadily improved in health on the full rations, but the diminished rations soon brought me down again. We felt exhaustion rather than hunger after a few days; for the appetite at last failed from the depression of continued hunger." that the French acted like cowards; it was simply caprit de corps, discipline, organisation, and confidence in their leaders and in each other that they lacked.

His account of the attempted revolution by the Reds in November is anuming; so is his anecdote of the orator who began his speech by saying, "Citizens, thank God, I am an Atheist!" The account which our gallant author gives of the continiers is most entiting. He believes they raise the sesser's of the troops, and we believe so too. His hatred of the Germans, and his vituperation of their crust and fruitless bombardment of Hospitals are most intense. But unless we were to reprint the book, we could not come to the end of the jolly, incoherent, reckless effusions of our author. We should think that no mess can be a dull one where he exists.

Having been educated in Paris, and knowing a large circle of friends, he cvidently was a social favourite, and we may take leave of him by quoting the acelamations which he tells us on one occasion greeted some of his amusing egotisms:—
"Brigand of Madoovall, val." "Voyervouce Stuartis" "Bravo, Mac't bravo, Majori" "Champagne round, gentlement!" "To thy health, O Scotchman of my woul!" "Triuquez!" "Trinquez!" "Trinquez!" "Trina was not without its hardships; but where Macdowall ahone, there must have been some foun, too.

⁽a) Parisiana (the Real Truth about the Bombardment); or, the Volunteer with the Bedeged Armeis, 1870-71. Adventure, America, and Active Service. By Cameron Struet Macching, 147, 62-61., etc., Indian Army, and Bombay Light Cararly; author of J. Vin Delorma; or, the Half-Sin of Lady Marquet." London: Provided do Co., 28, Hemieteastreet, Ooven-Leprice. 1871. Pp. 141.

CENTRAL AMERICA.

AT a time when the triumphant establishment of a railroad across Honduras marks the epoch of a new period in our Transatlantic navigation, little excuse need be made when we direct attention to the probable amount of disease which the emigrant, the traveller, or the resident may encounter in the little-known and much-misrepresented districts of Central America. Two theories have always been thrown out by capitalists whose interest it is to promote emigration to the tropics. One, that the climate is entirely salubrious, is thoroughly free from the distribution of zymotic diseases, and that unparalleled longevity is attained with ease by the residents in the "Paradiscof Mohammed." The other, and diametrically contrary statement, is that the European, when passing over the plague-smitten spots of Central America, is doomed to sudden and to certain death from fevers or cholera. It so happens that the absolute truth lies between the two extreme statements. We shall briefly pass over what appear to be the leading epidemic and other diseases of Nicaragua and Honduras, and we shall endeavour to point out such obvious causes of disease as may induce the white conquerors and occupiers of the fertile districts of Nicaragua and Honduras to "stamp out," to a great extent, certain prevalent symotic affections.

Much confusion has been unnecessarily imported into our consideration of the subject by the inaccurate maps of the distribution of disease which appear even in our best and most trustworthy authorities. If, s.g., we turn to the celebrated map of the "Fever Districts of the United States and the West Indies. on an Enlarged Scale" (plate 35 of Johnston's "Physical Atlas"), we find conditions laid down of the distribution of disease in those localities which are quite at variance with actual fact. We shall take yellow fever. This fearful scourge is there laid down as on a narrow belt fringing the Atlantic Ocean and the Gulf of Mexico, and being entirely absent on the western or Pacific slopes of the land. Now, everyone who has travelled in Central America knows that this statement is precisely the reverse of the actual and absolute fact. It is the Pacific ports of Realejo and of Panama that, so far as regards yellow fever, have produced a far greater amount of absolute deaths, in proportion to the population, than have the admittedly unhealthy, but less dangerous ports of the Atlantic seaboard. It is doubtless a source of great sorrow that there do not exist any trustworthy nosological statistical accounts of the distribution of death in Central America. Where there is no stable or permanent government, and no authentic census, accurate figures cannot, of course, be given; yet a residence in the tropics affords one opportunity roughly to gauge the relative amount of disease, and to indicate the individuals of the white, coloured, and black races who are especially liable to attack. The yellow-fever zone appears to be chiefly, in Central America, confined to the volcanic range of the west of the country. West of the Lake of Nicaragua, the volcanic hills, which belong to a later geological period than the granitic alopes between the lake and the Atlantic, and throw a light, tufaceous ash over the whole soil, include the chief vellow fever districts, like Realejo, Granada. Masaya, or Rivas. A traveller who enters Nicaragua from the east, and lands, say, at San Juan del Norte (named, by a dyspeptic invalid, Greytown-an absurd name, which has become unenviably famous in the annals of British and American diplomacy), first encounters a low marshy country, in which the chief and most important disease is the low remittent fever, analogous in its course to the "jungle fever" of India

This disease, locally termed cultuture, may be said to be the chief and most common affection of Central Americs, commencing with dryness of skin, giddiness, and scute pain in the back; it results on the second day in partial delirium, and on the third, if the patient is likely to survive, in comm. Everybody suffers from this affection more or less, and the term febre is only applied to the more violent cases of this disease. There appears, however, to be not the slightest real distinction between the febre and the calentura, although the Indians are fond of using the former word for the fatal cases, and rather object to the idea that anybody could die of the calentura, which is merely the "custom of the country." The natives, however, draw the most definite distinction between the calentura and the comita amarilla, or yellow fever. The calentura seems equally distributed over the whole of Nicaragua and Honduras. Its distribution seems to bear no relation whatever to climatic influence, to the altitude of the affected district above the sea, or to the race of the individuals who may be attacked. It appears, in fact, to be endemic over the whole country. Its sequelæ are often excruciating rheumatic pains, accompanied with giddiness and scute pains in the back. The remedies universally employed are diaphoretics and sudorifics. Ipecacuanha always, and calomel where possible, are exhibited in enormous doses, which apparently produce very slight effect upon the dura ilia of the Nicaraguan peasant. The practice of Medicine, as it is confined to the mixed-breed, barefooted Doctors, is naturally at a low ebb. An instance has been recorded in which the enormous dose of forty grains of "blue mass," or blue pill, were boldly and deliberately administered to a stout Costa Rican without any particular evil result having followed. Tartar emetic has been employed by English Doctors with great success in the case of the calenture.

For the yellow fever, the natives of Honduras and Nicaragua appear to possess no remedy whatever. Their ideas of disease are purely in the first stage of Comte's process of the evolution of the human mind. They regard yellow fever as a scourge of the Deity, and when patients are attacked with it they make no attempt whatever either to palliate the agonies of the patient, or to effect a cure. They allow the excreta from vellowfever infected persons to lie unremoved in the roads and in the dwelling-houses; they render themselves liable to infection in every possible manner by the use of the blankets and clothing of patients infected with yellow fever; they sleep without the slightest fear in huts and on hammocks in which a yellowfever patient has just died, and whose excreta are within a few feet of them. The highest civil and religious authorities (in Nicaragua, at least) have no scruple in appropriating to their own use, and using with signs of jubilant exultation, the blankets of some deceased white man who may have died of yellow fever. They, at the same time, have the most abject terror at going near anyone who may be thought (often without reason) to be suffering from yellow fever.(a)

The yellow fever appears rarely to be developed on the Atlantic seaboard, and never on the highlands of Chontales, usually about 1200 feet above the level of the sea. These heights are well wooded, chiefly on a granitic formation, and are almost impassable during the wet season, which lasts from September to March. During the wet season of 1867-68, the hills of the Chontales district were ravaged by an epidemic of cholera, resembling in its essential characters the true Asiatic cholera. The Wulwa Indians and mixed-breeds of the district did not possess any tradition of the previous existence of any similar epidemic attack. In one locality, inhabited by seven whites and 152 coloured people, the mortality was one white and forty-eight coloured population in December and January, 1867-68. The remedies employed (Board of Health mixture of chalk and opium) were very successful, but the filth in which the natives lived, coupled with the fact that the patients were often left to die in the wet mud, covered with their own excreta, and abandoned by all nurses, precluded the attainment of a very high percentage of cures.

Skin disease is very common in Nicaragua. Elephantiasis and leprosy are frequent, the former usually attacking the negro, and the latter the Indian population. A kindel paoriasis also frequently attacks Europeans who have resided in the

⁽a) The common tapeworm of the Indians is indistinguishable from the Bothricershalus lates of Eastern Europe.

country only a few weeks. The Indians attribute it to the water; but however this may be, there is no question that it is aggravated by the low and starvation diet common to both Europeans and Indians in the wet season. It is, however, significant that the disease only attacks Europeans, and that there is not a single case on record of either an Indian, a negro, or a mixed-breed being a victim. Syphilitic and gonorrhoal affections are very common, especially amongst the mixed-breeds. Nearly the whole stock of the solitary chomist's shop in Granada de Nicaragua consists of remedies for syphilis, and drugs which are supposed to act as aphrodisiaes amongst the Indian population. The goodwill of most individuals amongst the aborigines can be bought by the trifling donation of some drug which is supposed to act either as a prophylactic against fever, or as an aphrodisiac. The Indians have the most superstitious reverence for anyone who professes to be a Medical man, and who may be able to combine a slight knowledge of the properties of European drugs with a cool head amongst the often hostile Indians.

It is, of course, hardly necessary to say that the number of death from gunshot and incised wounds is very great, especially amongst the Indians and mixed-breeds. The negroes are too quiet and too much persecuted by the Indians to have the opportunity of much quarrelling with others, or amongst themselves, and their ultimate extinction as a race is an affair almost immediately to be expected.

THE WEEK.

TOPICS OF THE DAY.

THE Fellows of the Royal College of Physicians, at the Comitis on Monday, the 3rd inst., elected Dr. Burrows their President for the cusuing year. Dr. Burrows' tenure of office as President of the General Medical Council afforded full proof of his high qualifications for presiding over the discussions of a Professional assembly. He will fill the President's chair with dignity, and discharge the duties of his office with ability. But whilst the Profession will thoroughly approve the choice made by a majority of the Fellows, they will also not forget that the late President, Sir James Alderson, has filled the President's chair with the greatest courtesy and no lack of ability during his four years' period of office, and they will at least sympathise with the motives which led a considerable number of the Fellows to record their votes in Sir James Alderson's favour. Sir William Jenner, who is one of the Censors of the College, obtained also a sufficient number of votes to prove that at some future time the President's mentle will rest on his shoulders.

The Committee of the Council of the Royal College of Surgeons have drafted a new scheme for a Conjoint Board, which will be submitted to the Committees of the Royal College of Physicians and the Apothecaries' Society. It would be premature to discuss the provisions of this amended scheme. It is sufficient at present to say that it proposes the representation of the Universities in the Conjoint Board by assessors or examiners, on condition that the Universities shall not grant degrees admitting to the Register to those who have not passed the examinations of the Board; and also that it indicates a peauniary arrangement which shall insure to the Royal College of Surgeons a sufficient permanent income to maintain the Hunterian Museum and Library of the College at a proper stundard of utility and excellence. We showed last week that it was absolutely necessary for the College to make provision for the support of these great collections, and that in doing so they are benefiting, not merely the College of Surgeons, but the whole Profession.

There is a vacancy in the Senate of the University of London, which will be filled early in the month of May. We understand that Dr. Parkes is likely to be brought forward as a can-

dilate. It is really superfluons for us to say one word as to the claims of Dr. Parkes to the highest honours and trust which his University can bestow. One of the earliest graduates and exhibitioners of the University of London, Dr. Parkes's subsequent services in the cause of science have not merely diffilled the promise of his brilliant career as a student, but have reflected honour and enhanced the fame of his University If it be considered desirable that the Senate of the University should illustrate in the persons of its members the branches of learning which the University was founded to foster, no more representative man, not merely in Medicine, but in the collateral sciences, could be chosen than Dr. Parkes

The case of Briggs' Administratrix v. the Lancashire and Yorkshire Railway, and that of Richard Hill, tried for the manslaughter of Edward Briggs, two cases tried last week on the Midland Circuit, and both originating in the same accident, are not without Medico-legal interest. In the first, which was tried in the Civil Court, the plaintiff was a young woman, whose husband, a young farmer, named Briggs, had been killed at the Bradford terminus, where he was standing on the platform, when a train dashed into the station at the rate of fifteen miles an hour, tore up the fixed buffers at the end of the line, and carried the deceased through the window of the porters' room. He died soon after from his injuries. His widow was pregnant, and an action was brought against the Company both on behalf of the unborn child and of herself. The guard of the train, Richard Hill, which caused the accident, was, according to the plaintiff's witnesses, drunk. His own statement went to show that he had been ill for several weeks, and that he had only returned to work's week before; that he had been suffering from an abscess in the thigh, which had not yet healed, and that be had taken twopennyworth of whisky on an empty stomach to relieve his feeling of illness; that he afterwards became dizzy, and recollected nothing till an hour after his accident. Medical evidence was given to the effect that the man had been ill, and had not entirely recovered. The counsel for the plaintiff contended that the Company was liable, whether the guard was wilfully drunk or was ill; in the latter case the Company ought to have known it, and have prevented him from working the train. The judge and jury took the same view, and gave the widow £600 damages, but the judge would not allow the claims of the unborn child, on the ground that it might be still-born. The guard was then tried for the manslaughter of Briggs. The jury, in the Civil Court, had found "that Hill was under the influence of drink caused by carclessly taking more than was right in his weak state of health, and that such drinking caused him to go to sleep, and that such conduct was negligence." Baron Cleasby, who tried the criminal case, directed Hill to be acquitted, on the ground that, although the guard was guilty of sufficient negligence to make the Railway Company civilly responsible, the evidence was such as to make it quite masafe to ask a jury to find that he was guilty of negligence so great as to be criminal. "As he understood the jury who tried the case, their verdict meant the same thing. They believed that the man was ill, and that in order to alleviate his illness he incautiously, but with a quite innocent intention, took so much liquor as, acting on his illness, had an unfortunate influence on him. This cannot be so culpable as to be criminal." To prevent these accidents it would be a good thing if the railway companies were obliged to maintain a Medical officer at each of the principal stations, whose duty it should be to inspect the guards and engine-drivers before the starting of each train.

The answer given by Mr. Stansfeld, the new President of the Poor-law Board, to a deputation which waited on him in reference to the Baly-farming Bill now before the House of Commons, makes it probable that the Government will consent to refer the Bill to a select committee. At least, Mr. Stransfeld said that he would support an application that the Bill should be so referred before his colleagues. There is, no doubt, force in Mr. Stansfeld's remark—" that there are grave objections to the very extensive system of registration and supervision involved in the licensing of nurses, and in making the system applicable to all women who took children to nurse, in order to prevent abuses by bad women." But after the case of Margaret Waters, we maintain that the Government of the country is bound to interfers in this matter. Inaction on the part of Parliament holds out a temptation to the commission of a crime, which, whilst it is generally ignored or winked at, is punished with the utmost rigour when public opinion seems to demand an example. This is neither wise policy nor justice.

Mr. Julian Goldsmid, M.P., has offered to the University of London the sum of £100 per amum to be expended in the purchase of books for the library, and we understand that he proposes to make provision for continuing a like grant after his death. We need hardly say that the authorities of the University have galdy accepted his offer.

We recently noticed that Dr. Kidd, of Dublin, has been elected an Honorary Fellow of the Obstetrical Society of London. We should have added, that at the same meeting of the Society Dr. Keiller, of Edinburgh, and Dr. Tracy, of Melbourne, had a like honour conferred upon them.

At the next meeting of the Epidemiological Society, on April 12, the subject for dissuasion will be "The Epidemio of Relapsing Fever." Papers are promised by Mr. T. J. Dyke (of Merthyr Tydvil), Dr. Robinson (of Leeds, Dr. Buchanan, and Mr. Netten Radeliffe. We are requested to state that the Society invites the attendance of all who take an interest in the subject.

We see that the past and present students of Guy's Hospital are combining to present Mr. Cock with a testimonial on the occasion of his retirement from the senior Surgeoncy of that Hospital. Mr. Cock has high claims on the students whom he has instructed for his unvarying kindness and courteey, to say nothing of his high merits as a teacher of practical Surgery. But he has also strong claims on the gratitate of those Members and Fellows of the College of Surgeous who recollect how well and wisely he presided over the discussions in the College at the somewhat stormy period in the history of the Profession during which he filled the Presidential chair.

We have lately drawn attention to the danger which may lunk in the basket of clean clothes from the wash. An instance in point is given in last week's police reports. At Worship-street, a man named Johnson, a laundry-man, was fined so, and 2s. costs for having taken clothes in to weak whilst bit daughter was lying ill in the house with the small-pox. The defence was that there was carbolic acid placed in the room, and line in the rooms for drying. Medical evidence was given that it was impossible to do more in the way of distinction without an apparatus. Of course, no disinfection ought to have been trusted to in such a case. But exposing it to the fames from burning sulphur is, we think, the best mode of disinfecting linen. Dewar's (of Kirkealdy) sulphur cakes, and Herring's alcoholic solution of sulphurous add answer very well.

Mr. Bailey Denton, in a letter to the Times, sounds a note of warning as to the water-supply in the coming summer. He

"We are now on the eve of a season which must be sattended by a water famine among the rural poor, if it be not providentially relieved by the fall of more rain than usual, with special means taken to preserve it when it falls. At this moment the springe throughout the country are lower, and the surface points and pools have less water in them, than my memory receilects to have been the cuse in any former spring; mult, as vegetation is getting rapidly forward and evaporation is becoming more active, it is not likely that the subtergranges astores will be increased by any amount of rain which may now fall. But it is in the power of cottagecowners to collect a portion of the rain which may fall, the provision of underground tanks, and so make up in some neasure for the scarrity produced by the recurrence of several dry summers without the intervention of a thoroughly wet writer to effect a balance. A baloner's cottage and outbuildings generally over about 2½ poles of land, and an inch of rain falling upon them would, if collected, turnish 351 gallons,

which, at ten gallons a day, would hast five weeks.

"But I venture to repeat the question I have so often, with your permission, already asked.—When are we going to ecollect and store the surplus waters of winter (there is never a winter without surplus drainage and surface waters) for disposal in

the summer !

SMALL-FOX AT LIVERPOOL.

THE number of deaths from small-pox in Liverpool, which had fallen from 129 in the ninth week of the year to 89 in the tenth and eleventh, rose again during the twelfth week, or that ending March 25, to 97. Dr. Trench, at a recent meeting of the Health Committee, pointed out the inadequacy of the ordinary Government arrangements for vaccination and revoccination in the present extraordinary emergency. Workingmen and working-women could not be induced, he urged, to avail themselves of what appeared a gratuity, by going often to distant places during working hours. He suggested, therefore, that the vaccinator should go to them in the evening after their work was over; and, as an instance of the benefit that might be expected to accrue from this, mentioned the case of a densely-peopled block of buildings belonging to the Corporation in Silvester-street. In January there was a severe case of small-pox in the buildings, He immediately obtained permission for a vaccination-station to be opened there for one day, and in consequence of this 132 persons, not one of whom probably would have gone to the ordinary station, were vaccinated; and although the block stands in the very centre of an infected district, there had been only one case of small-pox in it since, and that in a person who foolishly declined to avail himself of the opportunity thus offered to him of being revaccinated.

MACKNEY TO WIT.

The Medical Officers of Hackney seem to be treated somewhat cavalierly by their lords and masters. The Hackney and Kingsland Gazette contains the following delicate worseau:

"The Ibetier, par Excellence (')—Dr. Graham, who a few weeks since was appointed District Medical Officer for West Hackney, in the room of Dr. Jarris, applied for an increase of stippend on the ground that the time required for the performance of the duties was greater than he had anticipated. He also expressed the dire threat that, unless his request to granted, he must withdraw from the parcolial service. Mr. Fraid suggested that, if that letter was to be considered as an offer of Dr. Graham a resignation, it should be accepted—a granting present. Mr. Holmes said the whole tenour of the letter was of a piece with Dr. Graham's behaviour and speech when elected."

"The Hackney Board of Works" at a late meeting disensed the question of the "Convalescent Home," at which the conduct of their Medical Officer, Dr. Tripe, was somewhat severely handled. The paper above quoted thus finishes an account of the proceedings:—

"After a long discussion, it was decided, on a division, that permission be given to the Medical Officer of Health to make an explanation in respect to the establishment of the place in question; and thereupon Dr. Tripe proceeded at considerable length to answer the charge which had been preferred against him, that he had taken the initiative in establishing the Hospital in the neighbourhood. He concluded by remarking that were if he had in this instance shown an error of judgment with was one for which he had been more severely castigated than he had a right to expect, as it was the first which had been brought against him, although he had been for fifteen years Medical Officer of Health for the district. Another long dis-

THE DUTY OF CORONERS.

THE opinion is becoming more and more extensively spread that the office of coroner is a superfluity; that the inquiry into uncertificated deaths could be more easily effected by a Medical Officer of Health; and that when there is suspicion of foul play the duties should be performed by the police. The following narrative will show which way the wind blows :-

At an inquest held recently at the Bath Hotel, Unionstreet, Oldham, before J. Molesworth, Esq., coroner, touching the death of a child nine months old, who died suddealy, the jury having been sworn, the chief constable observed that he desired to ascertain where his duties as chief constable ended and those of the coroner commenced. The death in the present case was reported to him at the policeoffice, and in virtue of his authority he made investigation into the circumstances of the case, and arrived at the conclusion that no inquest was necessary, as no blame attached to anyone. Coroner: As the law now stood he held it to be his duty to

hold an inquest in all cases of sudden or violent death, whether suspicion attached to anyone or not.

Chief Constable : He held the contrary, and that the coroner had no right to invade the private house of any individual unless there was suspicion. Mr. Hodgkinson (Chief Constable) theu read from "Burn's Justice of the Peace," as follows:—
"The mere fact that a body is lying dead does not give the coroner jurisdiction, nor even the circumstance that death was sudden; there ought to be a reasonable suspicion that the party came to his death by violent or unnatural means."

Coroner: In half the cases on which inquests were held there was no suspicion.

Chief Constable: Then there was no need of an inquest.
The Coroner: If the view held by Mr. Hodgkinson was correct, he would supersede the coroner in ninety-nine cases

Chief Constable: Not quite so great a proportion, but he should in sixty out of every 100. There were from 5 to 7 per cent. of the deaths recorded by the registerars which were registered without a Doctor's certificate, and if inquests were held upon all such, the number of cases upon which they were held would be an increase of 7 per cent. upon the whole number of douths He thought it was high time something should be done to define the matter, but it was more a question for the Legislature. The judges of this circuit had decided that when a man was committed for trial by the coroner he must also be committed by the magistrates. Now he did think that one of these was superfluous.

The Coroner: The magistrates could not inquire into a case

unless there was suspicion.

Chief Constable: Neither could the coroner.

The Coroner remarked that the recent revelations in London

had left a strong desire for inquiries into the deaths of children, to see that they had been properly treated. He then read the cases in which inquests were to be held, including all cases of violent or unnatural death; all cases in which the cause was not certified by a Medical man; on all persons found dead; and on the bodies of prisoners under whatever cause.

The Chief Constable: Then these were instructions which the registrars failed to carry out. If the coroner thought he ought to send all information of sudden deaths, he would send them, but there ought not to be different rules in different

counties

The Coroner: His idea was that it was the duty of the police, at least, to report the case to the coroner, and for him to make inquiries. Otherwise the superintendents of police would take upon themselves the inquiry which devolved upon the coroner.

Chief Constable: In sixty out of every 100 cases in which he sent information of a death he knew the verdict before ever the inquest was held, and he did think it a strange

anomaly.

Coroner: If the chief constable were to neglect to send the information the coroner might deem it his duty to order a ost-mortem examination, and have the body exhumed. It was for the coroner to say whether there was suspicion or not, and not leave it to the chief constable.

Here the matter dropped, but only to be renewed in a correspondence, which the coroner concluded by thus informing the chief constable of their respective duties :- "It is clearly your duty to report to me all sudden or violent deaths in your borough, and it is clearly my duty to make such inquiries as I think right and proper."

THE ALICE HOSPITAL AT DARMSTADT.

WE have received reports up to March 9 of this Hospital. which continues to be under the direction of Dr. C. Mayo. It continues to receive the worst cases from the army in France.

"Several bad cases of gunshot fracture have been received from the neighbourhood of Orleans, and others from Amiens. The Hospital has now been open twenty weeks, and has received more than 700 patients. The deaths have amounted received more than 700 patients. The deaths have amounted to 20, and have been due to the following causes:-Typhus, 1; typhoid fever, 8; ditto, with perforation, 1; dysentery, 3; acute meningitis, 1; phthisis, 2; pneumonia, 3; confluent small-pox, 1.

FROM ABROAD. - PROFESSOR BILLROTH'S LETTERS FROM THE SEAT OF WAR-THE MORTALITY IN THE PARIS AMBULANCES

In his fourteenth letter, Professor Billroth enters upon the subject of gunshot injuries of the bloodyessels. As to the immediate consequences of injuries to large bloodvessels, with profuse hæmorrhage, neither he nor any of his Hospital colleagues had any opportunity of observing them, and in no instance did he meet with an example of a primary ligature of a large artery. This has been conjectured to have arisen from the fact that such patients bleed so rapidly on the battle-field that all aid arrives too late. Again, attention has been drawn to the frequency with which, in gunshot wounds of the extremities, and especially of the pelvis, the arteries escape from injury by balls, these sometimes coursing along the vessel without wounding it. It is, therefore, quite possible that injuries of great vessels are of not such frequent occurrence as a priori might have been expected. There are numerous instances, too, of vessels even of so large a size as the norta being traversed by modern projectiles without hemorrhage always following. Professor Billroth heard of a case at Carlsruhe, which, without an autopsy, would have seemed impossible. Hæmorrhage only occurred several days after the injury, the man, with a hole in his aorta, having borne the transport from Worth to Carlsruhe without the occurrence of hemorrhage.

We have not space to follow Professor Billroth in his detailed account of the cases which came under his care, but may select a few of more especial interest. He met with three cases in which the external iliac or femoral arteries were injured by projectiles without bleeding ensuing. In the first of these, the two ends of the external iliac were found, after death, widely separated from each other, within a traumatic ancurism the size of the fist. There was also a large hole in the iliac vein. No external hemorrhage had taken place, and the patient died of gangrene. The case was also remarkable from the shot having traversed the bladder, and the orifice of entrance, which was in nearly direct communication with the wounded vessels, being completely healed. The orifice of exit, at the lower part of the bladder, was very narrow. There had been neither urinary infiltration nor bloody urine. The two cases of wound of the femoral were remarkably alike, no hemorrhage having occurred, and the wounds being nearly healed; while, although there was communication with the vein, the circulation of the limb was in nowise interfered with, nor were any of the consequences usually attributed to varicose aneurism present.

Three cases were met with of "spurious aneurism," in which traumatic ancurism, following injury to the artery, sooner or later gives rise to hemorrhage. In the first of these, hemorrhage recurred three weeks after a gunshot wound of the thigh, having on prior occasions been temporarily arrested by compression. A large incision having been made into the

aneurismal swelling and the coagula rapidly cleared out, an enormous discharge of blood took place from a hole plainly visible in the femoral, in spite of the vessel being firmly compressed under Poupart's ligament. It could, indeed, be only arrested by direct pressure by the finger on the aperture. The vessel was tied above and below this. The bleeding, however, did not cease, although the vessel was tied again and again, its walls being, in fact, too friable to allow the ligature to hold. As the patient, during these trials, had lost much blood, the external iliac was tied, hæmorrhage being suspended by pressure made within the wound. The bleeding was immediately arrested. It, however, recurred, both from the femoral and iliac, and the patient died worn out by the repeated hemorrhage and pyremic infection fourteen days after the ligature had been applied.

Professor Billroth next adverts to what he terms one of the most important and most difficult portions of the whole field of military surgery-secondary hamorrhage. Among his 132 wounded patients treated at Weissenburg, he met with 16 s rious cases of this, 13 of the patients dying and 3 recovering. Adding the cases, also, which he saw at Mannheim, there were 27 in all, 22 dying and 5 recovering. These figures sufficiently show the fearful danger of secondary hemorrhage in gunshot wounds. Among the 16 cases at Weissenburg, in 3 (wounds of the neck, leg, and foot) compression and plugging were employed, and in 2 (wounds of the chest) the suture was tried, All the 5 died. In 11 cases the ligature was resorted to-in 1 (fatal) the subelavian, in 5 (3 dving) the femoral at the sartorius, and in 5 (4 dying) the external iliac having been tied. Of the 8 unsuccessful cases, only 3 proved fatal in connexion with the ligature itself-1 dying from gangrene, and 2 in consequence of bleeding from the tied artery. The other 8 patients died solely in consequence of pyemia, sooner or later after the arrest of the bleeding by the ligature. As long as they lived there was no recurrence of the harmorrhage. An interesting case is related of the ligature of the common carotid performed by Dr. Stephhani at Mannheim on account of repeated secondary hemorrhage from a wound of the face. The patient seemed to have quite recovered, when, on the twenty-eighth day after the ligature, erysipelas appeared behind the car, and on the thirtieth the hiemorrhage reappeared at the operationwound, and evidently from the peripheric end of the vessel. Compression at the wound nearly arrested the bleeding for several days; but on the thirty-ninth day this returned again. Digital compression was kept np in the wound for thirty-six hours. The patient became excessively restless, so as to require morphia. The bleeding recurred, and, in spite of transfusion, he sank. At the autopsy, the centric end of the vessel was found filled with a firm, solid thrombus, which extended to the aorta, while the peripheric end only contained a loose pntrid coagulum. There was also a splintering of the articulation of the left jaw, without any trace of callus.

In six individuals (five dying), Professor Billroth met with bleeding in the region of the subclavian or its branches, and in five of these he either tied or assisted to tie the vessel. Among them was a powerful young officer, who had received a wound, the ball entering underneath the middle of the right clavicle, and had passed out through the subscapular fossa, piercing the spina. The wound healed under simple treatment, and he was about to return home, when, on the nineteenth day, hæmorrhage took place from the posterior wound, and recurred again and again, in spite of compression and the other means that were employed, reducing him to the lowest ebb. An attempt at digital compression had to be given up, on account of the pain it caused, and the styptics with plugging proving useless, the ligature evidently became the only resource. The blood poured from behind the scapular wound, but its exact source could only be conjectured. An attempt to tie the vessel within the wound would require a preliminary partial excision of the scapula; and the difficulty of such an operation, even when performed by Langenbeck, and the great hiemorrhage which usually accompanies it, would naturally cause hesitation in its adoption on the present occasion. It was therefore resolved to tie the subclavian in the usual place above the clavicle, and the ligature effectually arrested the hiemorrhage. But eighty-four hours after the operation profuse hismorrhage appeared at the seat of the ligature, the bleeding being fearful, so as hardly to be capable of restraint by means of the finger passed into the wound. So great was the pain caused by this compression, that although the patient was in an anæmic state, it was found necessary to anesthetise him before proceeding to a new operation. This operation, performed at night, with the aid of only a few assistants, was attended with immense difficulty. While exposing the vessel behind the scalenus in order to get at the centric divided end, the internal jugular was wounded, and had to be secured. After this end of the artery had been secured with great difficulty, as some blood issued also from the peripheric end, this, too, was tied to render matters more secure. The operation, performed at midnight, took threequarters of an hour to complete. The patient recovered his consciousness, and was well supplied with stimulants; but a few hours afterwards he finally sank.

In his next letter Professor Billroth enters into the general question of the treatment of hæmorrhage,

According to the Press Medicale Belge for March 26, there are still in Paris 10,000 wounded treated in 700 ambulances. The statistics of these ambulances amply exhibit the fact so easily demonstrated at Brussels, of the great superiority of the " American " system. Thus we may compare the ambulance under the direction of Nélaton, at the Grand Hôtel, with the American ambulance established in the Avenue Uhrich, which, as regards the number of wounded, were of equal importance. At the Grand Hotel not a single subject of amputation was saved; while in the American ambulance 2 in 10 only were lost in the worst cases. In the former, the mortality was 80 per cent.; and in the latter at first only 4.70 per cent. After the "affaire du Bourget" the wounded suffered from cold, and greatly from bad diet, and then the mean mortality mounted up to 13 per cent. As the siege became more and more distressing, the sick felt its effects in an increased degree, and the mortality attained its maximum of 20 per cent. Thus between these two ambulances there was the enormous difference of 75 per cent. This difference was chiefly attributable to the difference in the bygienic conditions of the two establishments. The ventilation was excellent in the American ambulance, while in the rooms of the Grand Hôtel it was quite insufficient. Moreover, there the great imprudence had been committed of leaving the carpets and curtains, and hospital gangrene furnished a large contingent to the mortality.

PARLIAMENTARY .- MADRAS MEDICAL FUND-CONTAGIOUS DISEASES ACT CORRESPONDENCE ... LICENSING BILL LOCAL COVERNMENT AND TAXATION-EXCESSIVE MORTALITY AMONOST INFANTS-REMOVAL OF DESTITUTE PAUPERS DURING THE SMALL-POX PPIDENIC

In the House of Commons, on Friday, March 31.

In reply to Mr. Barelay,
Mr. Orant-Duff said no decision had been arrived at with
respect to the course to be adopted in reference to the annuity
branch of the Madras Medical Fund. Unavoidable delay had
cocurred from the necessity for fresh reference to the actuary, but the hon. member might rely upon there being no avoidable

On Monday, in reply to Mr. Gilpin, Mr. Gladstone intimated his willingness to produce certain correspondence that had passed between himself and the Honorary Secretaries of the Association for the Extension of the Contagious Diseases Act. and also correspondence between himself and the Chairman of the National Association for the Repeal of the Contagious Diseases Act.

Mr. Bruce brought in his Licensing Bill. He commenced

by stating certain defects in the present system, which it was in cessary to cure-viz., that more licences are granted than are necessary, and the mode of issuing them is unsatisfactory; that there is no security for the orderly management of publi houses, nor for the prevention of adulteration, and that the hours of opening are too long. And the remedy would pro-ceed on these two principles: that the public have a right to have a sufficient number of respectably conducted refreshment-houses open, and that all vested interests shall be fairly considered. Dealing first with houses for consumption "off the premises," Mr. Bruce stated that the change in the law would be very slight, chieffs consisting the change in the law the premises. Mr. Bruce stated that the change in the law would be very alight, chiefly consisting of an abolition of the Table Beer Licence, and the requiring of a justice's certificate previous to the Excise licence in every case except that of wholesale dealers and wine licences. Then passing to the larger class, house for consumption on the premises. Mr. Bruce stated that the existing districts will be considerably subdivided and that it will be left to the load based in a subdivided, and that it will be left to the local magistrates in the first instance to decide in each district, without appeal, how many licences shall be allowed. But if they go beyond a certain proportion to the population, the ratepayers may challenge their decision, and demand a poll. The certificates will only be for a certain period, liable to revocation; and the Excise licences which are to follow on them will be of two sorts-a general licence corresponding to the present publican's licence, and a limited licence corresponding to the beer licence; and there will also be a special description of licences issued for hotels and eating-houses. As to the hours of closing, the Bill proposes to equalise public- and beer-houses, and to close all at midnight in London, at eleven in the country towns, and ten in the rural districts, but with power to the magistrates, with the consent of the ratepayers, to shorten that time by one hour. The opening hour is to be seven o'clock in the one nour. The opening nour is to se seven tones in our morning, with special arrangements for districts where there are markets and the like cases. The honrson Sanday will be from one to three and from seven tonine c clock. In explaining next the penal clauses of the Bill, Mr. Bruce laid great stress on a proposal that all the penalties shall be endossed on the back of the posal that all the penalties man to the penalties of the not only to the house but to the manager. A traveller is defined as a person five miles from his home; the fine for drunkenness is raised to 20s., or imprisonment with hard labour, with heavier punishment for persons in charge of horses, steamengines, or dangerous weapons. The penalties against adultera-tion are very severe—heavy fines with imprisonment, ending in forfeiture of the licence; and the £130,000 a year which Mr. Bruce expects to get from the sale of licences and the licence rents is to be applied in maintaining a special force of inspectors, who will be empowered to visit the public-houses all over the country, to take samples of the liquor sold, and to have them analysed.

Mr. Goschen introduced his two Bills for the remodelling of our system of local Government and taxation. At the end of a long and able speech, he thus summed up the objects of his a long ann alos specen, he thus summed up the objects of ms measure:—It was proposed to consolidate all rates; to have one universal system of deduction; to have one parochial system of elections instead of two; an audit covering the whole of the country; to organise the parish; to establish a civil head which would represent the parish; in all parochial affairs; to limit the powers of the vestry to deliberate func-tions, and to transfer the executive functions to a simple paro-chial Board; to ntilise the chairman of the Parochial Board in order to elect the representatives of the County Financial Boards; to extend the provisions of the Sanitary Acts so as to provide for Hospitals and other matters not sufficiently provided for at present; to give greater coercive powers to the vided for at present; to give greater coercive powers to the central authority to carry out the Sanitary Acts; to combine in one department all the business relating to local government, and to provide for the simplification of areas. With regard to finance, they proposed to make all hereditaments, both visible and invisible, liable to rates; to improve the mode of valuation by making owners and occupiers each liable for half the rates, and to surrender complete seach liable for half the rates, and to surrender the honse-tax in relief of the local rates. Her Majesty's Government trusted, notwithstanding the large amount of business to be transacted in the course of this session, to carry through Parliament the measure, the provisions of which he had sketched, because it was not only important in itself, but would provide the means for still further legislation, which was at present almost at a standstill for the want of powers necessary to carry it ont. The right hon gentleman concluded by moving for leave to bring in the Bills which he had described in his speech.

Sir M. H. Beach moved the adjournment of the debate.

After some discussion, the motion for the adjournment was carried.

On Tuesday.

Mr. Charley gave notice that on Friday, May 5, he would call attention to the excessive mortality among infants, and more for a select committee to inquire as to the best means of preventing this destruction of infant life.

Mr. Downing asked the President of the Poor-law Board whether any steps had been taken or advised to guard against the removal of the destitute from unions in England and Scotland, where the small-pox had prevailed, to Ireland; and, if

so, the nature thereof.

so, the nature thereof.

Mr. Stansfeld said the Poor-law Board had no power to suspend any removals; but he had addressed a circular letter to those unions from which removals to Ireland most frequently occurred, advising the suspension of such removals while the epidemic prevailed.

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the undermentioned Districts.

			_	No. of Cases week ending							
Distric	Districts.					Mar. 18.	Mar. 25.	April 1.	April 1. Sent to Homital.		
West-											
Chelsea . St. George,	Ha	DOVET.	12	10	6	6	5	?	-		
square .			14	.16	7	19	10	11	9		
St. Margaret a	nd St.	John,		1							
Westminste			47	30	27	2	9	9	-		
St. James, We	estmi	ster .	8	3	3	8	4	4	1		
NORTH-											
St. Pancras			64	62	69	63	6.5	44	9		
Islington .			31	62	23	34	49	26	9		
Hackney . CENTRAL			30	36	41	31	24*	9			
City of Londo			20	22	17	13	13	13	3		
St. Giles-in-t		obla	10	5	10	1	5	8	6		
Holborn .	He - I	erus .	6	2	3	3	2	3	2		
St. Luke's			. 9	20	27	18	12	2	-		
EAST-	•			20		10	1.0	١.	-		
Whitechapel			31	34	32	13	33	9	-		
Poplar .		: :	9	9	2	9	1	ii	- 5		
SOUTH-							1				
St. Mary, New	ingto	n .	. 8	16	19	2	28	23	18		
St. Olave, Sor			. 4	2	9	1	11	5	1		
St. George-	the - M	lartyr.	. 1						10.5		
Southwark			. 3	2	17	5	. 5	9	8		
Bermondscy				15	P	2			-		
Lambeth .			. 28	12	28	33	33	P			
Clapham .			. 5	28	17	29	22	13	7		
Battersea.			14	9	13	P	1	P			
Wandsworth			. 5	4	?	3	5	10	-3		
Putney .				-	1	1	2	1	-		
Streatham				1	P	2	3	3	P		
Camberwell			: 5	26	14	13	4	4	1		
Greenwich			-	2	9	P	_	-	-		
Lewisham			. 2	1	16	2	1	2	-		
Plumstead			4	1	1	4	6	4	-		

· Return imperfect,

HYDROPHORIA IN CILEBHER.—At the meeting of the Northwich Local Board, on Saturday, several cases of hydrophobia were reported, and it was said that cases were of daily occurrence in the neighbourhood. A farmer at Marston had had to shoot two helfers, and other animals had had to be destroyed through the disease. The Board decided rigidly to enforce the law that owners of dogs should have them muzzled.

THE New York Druggists' Circular informs us that borax is superior to everything else for exterminating the cockroach. The smell or touch of borax is said to be certain death to them.

THE ARMY MEDICAL SCHOOL AT NETLEY.

The twenty-second session of the Army Medical School was opened on Monday, April 3, by an address from Dr. Maclean, the Professor of Military Medicine. Sir Galbraith Logan, the Professor of Military Medicine. Sir Galbraith Logan, and Dr. Arnastrong, C.B., Director-General of the Medical Department of the Navy, came down from London to be present at the address, Colonel Evans Gordon, the Commandant, and all the staff of the Hospital and School were also present.

Dr. Maclean, in bidding the candidates for the Army Medical Department welcome to Netley, referred to the fact that for two years the Service had been closed, and that the Indian We yould the cervice and over closes, and that the running we will be considered to the consideration of the consi colleagues and himself had had pleasure in aiding as far as they could. They were all delighted to welcome the Naval Assistant-Surgrons, and he had no fear but that there would be the most cordial feeling between the two Services. They had never had at Netley any Service distinctions, and between the army and the Indian candidates there had never existed other than the most friendly feeling. He did not doubt it would be the same with the navy. He then pointed out how desirable it was to use the means of tuition already provided at Netley, instead of forming a fresh school for the navy Surgeons, and in how many ways the same teaching which was useful to army Medical officers would equally benefit their brethren of the navy. In future wars, also, the precedent of the Crimean, Chinese, and Abyssinian wars would no doubt be followed, and we should see large employment made, both of marines and blue-jackets, for land service. After enlarging on this topic and stating that, when the exigencies of the Service would permit, a naval Medical officer of great reputation and acquirements would be added to the leading staff at Netley, Dr. Maclean referred to the great war just ended, and glanced at various questions which it raised in respect to the action of Medical officers and to the voluntary Medical and other assistance which is now so freely offered by every nation during war. He expressed an opinion that the peace establishment of an army could never suffice for war, and that the proper course was so to organise single for war, and that the proper course was so to organise in time of peace the volunteer assistance which would be wanted for war, that when necessary it could be set in notion without delay or difficulty, and be brought into complete co-peration and regulariton by a proper union with the regular Medical staff of the army. He then turned to the work of the coming session, impressed on the gentlemen who were about to enter the two Services the necessity of gentlemanlike and correct behaviour, as the honour of the Hospital and of the Services were in their hands, and concluded a very telling and cloquent

address amidst load applianse.
The Commandant (Colonel Goanow), after thanking Dr. Maclern for his excellent fecture, congratulated his hearers on the union at Netley of the two Services, and expressed his earnest hope that the four months at Netley would be not only a profit-

able but a pleasant time.

Sir Galbraith Logan and Dr. Armstrong then made a few observations. The former urged on the candidates the importnuce of making the utmost use of the opportunities at Netley, and stated how important he considered it to be that the specialities of army Medicine and Surgery should be thoroughly acquired at the outset of a Medical officer's career. He referred to an alteration in the London examination which he had introduced by the establishment of a voluntary examination in modern languages. He had been very much pleased to find that, out of fifty-seven candidates, no less than twenty-seven led undergone a voluntary examination in French, and several in German. He impressed on them the importance of keeping up these languages. In connexion with this subject he referred in very feeling terms to the death of Count Wollowicz, whose knowledge of languages was so remarkable, and who in all other ways was one of the most promising young officers he had ever known. After a few wordsof kindly welcome to the navy Medical officers, Sir Galbraith Logan expressed the pleasure he felt in seeing the School again in full work, and in hearing the admirable address from the Professor of Medicine.

Dr. Armstrong said it had been his strong desire for some time that all gentlemen entering the Medical Service of the navy should go through the Netley school. He anticipated great benefit to the Service, and he hoped that the nava-Assistant-Surgeons he had now sent would endeavour to their utmost to profit by the instruction, and to do honour to the Service they had entered.

THE HEALTH OF THE NAVY.

The practice of publishing a statistical abstract of the health of the navy in a separate form a seon as compiled, leaving the Medical observations and reports, when selected and duly elaborated, to follow in a larger volume, puts us in possession, at an earlier date than would otherwise be the case, of the numerical results of the year's contest with disease at various stations. The period embraced by the statistical abstract, however, being from July of one year till June of next, while that treated of in the larger volume is from January till December of the same year, gives rise to a certain amount of confusion in the study of these reports.

During the twelve months from July 1, 1869, till June 30, 1870, inclusive, a trilling increase in the ratio of cases entered on the six-list, and of invaliding, and a comparatively high increase in the death-rate, occurred. The latter was altogether occasioned by the prevalence of yellow fever in the West Indies and on the south-east coast of America, causing fifty-one deaths on the former, and ten on the latter station, and by the loss of the gunbout Maney is China, whereby thirty-four lives

were los

It is satisfactory to learn that the system of transferring vessels employed on the vest costs of Africa to other stations, after a comparatively brief period of service, continues to be attended with continues to be attended with the pre-continues to be attended with the pre-coding year, but more than 200 below the average of fourteen years, while the death-rate was only 7 s per 1000, a decrease of 2 per 1000 as compared with the pre-coding year, but more than 200 below the average of fourteen years, while the death-rate was only 7 s per 1000, as compared with the previous twelve months, when the mortality was the lowest on record, and 17-6 per 1000 below the average mortality for fourteen years.

The efficient manner in which the Contegions Diseases Athas been enforced at the Cape of Good Hope has borne fruit in the fact that from January till June, 1870, during which the Oldediary, with a crew of 240 men, was moored in Sinon's Bay, although the men had free access to the shore, abundant leave being granted them, only one case of sphillis occurred.

On the Kast Indies station, on the other hand, venercal diseases caused a very considerable amount of inefficiency. In the Farte great loss of service was occasioned, while the vessel was at Bombay, by sphilis contracted there, and most of the cases of rheumatism which subsequently were placed on the sick-list had a syphilist contracted there, and he greatest loss of service was from venereal diseases contracted at Bombay. The Dryast suffered similarly, at the same station. In the Nyasphe, syphilis contracted at different ports, Bombay among the number, caused more loss of service than any other form of disease, the cases, as a rule, being exceedingly tedious in their progress.

During the stay of the iron-chal ship Ocean in Japan, the greatest loss of e-trice was from sphillic diseases, contracted at the Yoshiwarra, the great public brothel of Yokohama. The disease was exceptionally virulent, and in many cases symptoms of constitutional sphillis of a most malignant type ensued. The crews of other vessels on the same sation suffered in a similar manner. Small-pox broke out among the crews of a tousiderable portion of the vessels employed on the China station. On board the Zhôra, with an average strength than 12 per count of their properties. The thready all made good recoveries; but a marine drafted from that ship to the Icaru of the country of the properties of vessels on home stations; but the practice of vaccination of these onlowers actual port in this country has caused greater attention to this point as regards the crews of vessels on home stations; but the practice of vaccination of these onlowing at the practice of vaccination of the order of corticins and the practice of vaccination of the order of corticins at the practice of vaccination of the order of corticins and the practice of the

especially of all men of the coloured races, even while only temporarily employed, should be established as an inviolable rule.

It is remarkable that in almost all vessels passing more than It is remarking that in amost an vessels passing more than a few weeks at sea, boils, abscesses, and ulcers, "attributable to the nature of the dict." caused a very large amount of inefficiency. On the cadet training-ship Bristol, which, while attached to the flying squadron, had been 169 days at sea. and had been necessarily victualled very much on salt proviand nad ocen necessarily victualized very much on sair provi-sions during that time, the loss of service from boils, etc., amounted to 2607 days—or, in other words, more than seven nene were daily incapacitated for duty from these causes alone. Only three deaths by suicide are reported in the total force,

but seventy-seven men were drowned, a considerable number of whom most probably must have committed suicide. The death-rate for the whole force was 10.3 per 1000, varying from 7 on the home and Mediterranean stations, to 23.1 on the North American and West Indies stations, and 24.2 on the China station. Omitting the deaths caused by the loss of the Slaney, the death-rate from disease alone was 7.5 per 1000. During the preceding twelve months it was only 5.8 per 1000.

The iron-clad ships held a favourable position in comparison with the other vessels on the same stations; and of all seagoing vossels they presented the lowest ratio of cases placed on the siek-list, or 12:66 per 1000 of the total force, their death-rate, 8:2 per 1000, being 2:1 per 1000 below the average

mortality of the total force.

REPORT OF THE ROYAL SANITARY COMMISSION

NO. IV .- CENTRAL AUTHORITY.

THE Commissioners having affirmed the proposition that there must be local administration of sanitary affairs, lay it down as indispensable that there should be, in addition, a central authority. Of this anthority, the function should be to keep the local executive everywhere in action; to aid it when higher skill or information is needed, and to carry out numerous matters of central superintendence.

The Report attributes the present inefficiency of the central authority to three causes-viz., want of concentration, want of central officers, and the want of constant official communication between central and local offices. The want of concentration is evidenced by the fact that, at present, questions of local government are referred to the Local Government Act Department of the Privy Council; measures for diseases prevention to the Privy Council; and certain other matters to the Board of

Turning next to the question of the particular department to which should be intrusted the various functions thus spread to which about no intrusted the various functions this spread abroad, the Commissioners find ready to hand the Poor-law Board. The Privy Council presented itself, but the Commis-sioners failed to discover any especial reason why regulations bearing upon disease should emanate from that department. The Home Office, too, was found to have no means of ascertaining sanitary wants; no officers of health; no inspectors to report: no knowledge of the amount of sickness in the country, and, indeed, no officers who could furnish such information. But and, indeed, no officers who could furnish such information. But in the Foor-law Board (asy the Commissioners) was found a de-partment in the closest relation with every parsis in the king-domupon matter intimately connected with saintary measures, possessing a staff of inspectors widely acquainted with the con-dition of every district, and having also a complete and efficient boly of Medical officers, who could be made available for many purposes of sanitary inquiry and information. The Commissioners state that on these grounds, amongst others, they " are led irresistibly to the conclusion that the various branches of sanitary administration could best be superintended by a Minister, who should, at the same time, be charged with the administration of the Poor-law."

Their conclusions appear to be supported by the considera-tion that the subjects of public health and poor relief are necessarily cognate. Sanitary law must bear a constant ratio to poor-laws—the one making provision for health, the other for that destitution of which sickness is both the cause and effect. Hence, all sanitary and poor-law administration seem naturally capable of being arranged in two sub-departments, under one common head. But upon the necessity for two sub-

departments the Report lays great stress, alleging that it would lead to great misconception were we, even apparently, to subreat to great misconception were we, even apparently, to sub-ordinate the care of health to the provision for infirmity, and the economy of public wealth to the relief of destitution. They therefore propose that the title of the Minister under whom these two heads of administration should be placed should clearly signify that his charge is of two distinct, though correlative, departments. That title, as is now generally under-stood, will be that of "Minister of Health and the Poor."

For the provision of inspection under the new ministry, the Commissioners recommend that the three inspectors of the pre-sent Local Government Act Office and those of the Medical Department of the Privy Council should be amalgamated with the present poor-law inspectorate. To the numbers of these, such additions should be made as the amount of work or the technical nature of the inquiries to be conducted may render necessary, considerable discretion being left to the central authority as regards this particular point.

On one point the Commissioners express themselves with much decision; and, as their opinion is directly at variance with the recent policy of the Poor-law Board, which has been to introduce a class of sub-inspectors, we commend it to the notice of the present President. The Commissioners admit that they "prefer putting additional inspectors over reduced areas to giving to the inspectors assistants, and thus making two inspectors travel over the same ground, and introducing an inferior class of men into the central service.

Another advantage which the report discovers will arise from the coupling of sanitary and poor-law administration, will be the union of the Medical staff for both purposes, thus making Mr. Simon, Dr. Smith, and Dr. Bridges available for the superintendence of public health and poor relief indifferently.

But while proposing fully to equip, both generally and Medically, the central authority, the Commissioners wish it to be understood that it must avoid taking upon itself the actual work of local government, but should assume only the task of This, at least, is the general tenour of the remarks, direction. though-with some apparent contradiction-they recommend through—what some apparent contranuction—they recommend that power should be given to the central authority, in case of necessity, to enter and execute works. This is probably, how-ever, merely intended to be "power in reserve;" of which they elsewhere speak as being a useful stimulus to local authorities, —in fact, as ort of "nd in pickle," intended more for purposes of intimidation than for actual use.

The Report does not overlook the possible, though not very probable, case where the toust antiquety default but by excess, and suggests that, were the check exereised by ratepayers over extravagant representatives to prove insufficient, it would be well that the general superintendence of the central authority should be extended to such cases also. But, as a general rule, the interference of the central authority will be required in the reverse direction—that is to say, not to check excess, but to forbid default. Therefore it is that the Commissioners consider that there should be one recognised Commissioners consumer task there should be one recognised and sufficiently powerful Minister, not to centralise administration, but, on the contrary, to set local life in motion—a motive power, and an authority to be referred to for guidance and assistance by all the sanitary authorities for local government throughout the country. Great is the rei invertie to be ment throughout the country. Great is the ris inertia to be overcome; the repugnance to self-taxation; the practical dis-trust of science; and vast is the number of persons interested in offending against sanitary laws, even amongst those who must constitute chiefly the local anthorities to enforce them.

Under such a scheme as the Report sketches, the Com-missioners anticipate that "all the powers of local government will acquire new strength and meaning from their completion on a national system. When pollution of water, for instance, is made universally and practically penal, it will have to bear the brunt of national condemnation as a nuisance. Local prejudice and apathy cannot long resist established public prejudice and apathy cannot long resist established public the side of the law. The advance of practical science, no longer discredited by the scoffs of ignorance, will have the means of wide illustration to carry conviction. The community will first learn, and then demand, their right to protection from preventible diseases and death, in return for rates levied on them by a local authority responsible everywhere for public health."

THE brutal fellow who bit off a portion of his brother's tongue, in the neighbourhood of Rhyl, has been sentenced to five years' penal servitude, at Flintshire Assizes.

BARON MUNDY'S REPORT ON THE AMBULANCE DE L'ANCIEN CORPS LEGISLATIF.

This Ambulance was established on September 19, 1870, in the Palace of the President de l'Ancien Corpa Legislatif, and closed on January 31, 1871. M. B. Baron Dr. T. Mendy was the Medical Director; Dr. Mosettig, of Vienna, the Surgeon-inclief; and Messra. Christensen and Nissen, Norwegian Surgeons, were the Resident Medical Officers. The subordinate staff was composed of foreigners and Frenchmen, and all its members are mentioned with honour in Dr. Mundy's Report. Dr. Mundy had ample funds placed at his disposal, and appears to have expended them with judicious liberality. He esteems success in treatment rather than minute accuracy in all the details of expenditure, per patient daily, to be the most desirable end of Hospital administration. He regretted, however, to observe that the Finance Committee was animated by a too scratinising spirit, which evidently clashed no little with smore liberal views, but in order to satisfy all its demands he reduces, with invincial minuteness, the daily expenditure of 5 fr. 12c. per patient to its equivalent by the hour, minute, and second: Considering a good ensime to be the most important element in modern hygiene, he applied nearly the half of the total funds of the Ambulance to this purpose, and is justly its innumerable difficulties, to have a choice and varied bill of fare daily.

The number of beds, at first 50, was increased to 100 towards the end of October, with a room for officers, containing five beds. To the non-Professional eye the imposing exterior of the building conveyed a very deceptive impression as to its suitability for the purpose of a Hospital. When judged on hygienic ability for the purpose of a Hospital. When judged on hygienic ability for the purpose of a Hospital. When judged on hygienic ability of the purpose of a Hospital with its contignous gallery and seven acloss opening into one another, with windows of coloseal dimensions, all on the same side, and with walls covered with tapestry, was incapable of therough ventilation, and formed a vortable fecus for materials of infection of all sorts. It was only by the most scrupilous maintenance of the wounded to fresh beds (as far as possible two beds for each patient were calculated on), unremitting disinfection, a constant supply of fresh dressings, the plentiful use of carboile acid and Condy's fluid, and a perpetual change of air and of all materials employed—that the outbreak of hospital gam-

green and other infectious diseases was prevented.

The original intention of reserving the ambulance for Surgical cases, notwithstanding the protests of Dr. Mundy as the injurious results of promisenously introducing sick into an ambulance exclusively established for the treatment of wonded man, was departed from, and during the first three typhoid fever, diphtheria, dysentery, and small-pox were admitted for treatment. The result proved the truth of Dr. Mundy's warnings; eight of the newly-admitted patients died in less than three weeks; one of the wonded was attacked by small-pox during his convaluescen, and had his life again inspended on January 27, the wounded and convaluescents were transferred to other ambulances, and measures taken for the thorough cleansing and disinfection of the building and all the thorough cleansing and disinfection of the building and all the

Hospital material.

Maety-one wounded were admitted directly from the field, and 45 from other ambulances. No case of bayonet or aword wound was admitted. Among this number, 7 primary and 18 secondary operations of varying diagrees of importance were performed. articulation of the hip, 1; resection of the lower jaw, 2—the injury of the bone in both cases being complicated with laceration of the one power of the properties of the company and perforation of the company as imputation of fingers, 1; and resection of the case power of the district of the fine of the company operations included—ligation of the district of the fine of artery, 1; elevation and removal of portion of particulations, 1; and of metastanal bones, 2; resections in the shaft of tibis and fibula, 4; and of the elbow and radius, 2; re-amputation of stump of thigh, 1. No deaths occurred after

any of the secondary operations, but four of the primary opera-

tions-namely, the two amputations of thigh, the exarticulation of hip, and one of the resections of the lower jaw-terminated fatally. Seventeen other deaths occurred among the wounded —namely, 2 from typhus attacking patients suffering from wound of the head and arm, 1 from wound of neck complicated with fracture of base of skull, 2 from penetrating wound of with tracture or base of skull, 2 from penetrating wounds clest, I from fracture of vertebre, 4 from penetrating wounds of abdomen, I from wound and fracture of hip, 2 from wound of thigh complicated with laceration of large veins, and 3 from same cause with fracture, I from wound and fracture of iron same cause with ifacture, i from wound and iracture of knee, I from gangrene, I from fracture of leg, and I from wound of bones of hand. The total mortality among 247 wounded and sick was 29, or a little more than 11 per cent. It will thus be seen that, considering the nature of the operations, the severity of the wonnds, and the circumstances of the siege, the practice of Dr. Mundy and his colleagues was attended by a very gratifying degree of success; there was not a single case of hospital gangrene, and there was only one case of purulent absorption, consequent upon abrasiou of the leg and gangrene from frost-bite, in which the patient declined But it should be remembered that the history of amputation. the 96 convalescent wounded transferred to other ambulances remains incomplete, and that only 19 were discharged as cured and fit for duty with their corps.

CLINICAL EXPERIENCES OF CHOREA. By Professor STEINER, of Prague.

This work embodies the results of the anthor's observation of fifty-two cases of chorea treated in the Childrens' Hospital, at Prague. Of this number three cases were fatal. The first case, a boy, of 84 years, was seized with chorea after falling down a cellar step, and the autopsy pointed to a growth of cellular tissue in the substance of the spinal marrow as the probable cause of the disease. Chorea came on in the second case, a little girl of 9 years old, a few days after she had been playing, and with back to back and hands over her head had been swinging her companion. She died, and an abundant extravasation of serum fluid into the spinal cord, with hypersemia of the cord and its meninges, was found after death-changes which appeared to be the result of her violent exertion, and the cause of the chorca. This conclusion was confirmed by four other similar cases resulting from the same cause, which recovered. In the third case, a boy, of 6 years old, it was proved that the chorea was the expression of an inflammatory exudation into the spinal canal, following an attack of articular rheumatism with consecutive peri-and-endocarditis. The patient was improving, when sudden serous effusion into both pleurse with acute codems of the lungs supervened. Out of 252 cases the author has only seen four cases occur is the course of acute articular rheumatism. He regards the frequent coincidence of the two diseases in France as due to some local influences, but comes to the conclusion that acute rheumatism, with or without endocarditis, may cause chorea in a certain number of cases. He does not agree with those French authors who look upon acute rheumatism and chorea as but one disease expressing itself in a two-fold way, though it is easy to see the connexion between the two diseases. Its clinical course, no less than its anatomical appearances, proves that acute rheumatism has a great tendency to affect the serous membranes, and in certain cases the disease localises itself not only in the joints, but also in the spinal membranes, the irritation of which produces the symptoms of chorea. In other cases the author considers the symptoms of chorea. In the choren to depend essentially upon a disturbed nutrition and an increased excitation of the spinal marrow. The cause of this spinal irritation is, in the majority of cases, ansemia and a faulty condition of the blood, a conclusion borne out by the consideration of the following facts.

consideration of the following mets.

I. Children who suffer from ohorea have generally grown-rapidly; are of tender build; weakly; ancemic. 2. Certain acute infections diseaser-vir., searlet fever, measles, typhus—often cut short the chorea altogether, or temporarily. 3. A nutritions dist and tonies have a beneficial influence upon the disease. 4. Blowing murmars are andible over the heart and in the veins, which disappear as the patient improves.

In the reins, which manppear as the patient improves. This condition of animia is frequently associated with irregularities of growth and development. Chorea generally occurs between the ages of δ and 11 years, or during the periods

in which the teeth and the sexual organs become developed, and in many cases might be called, the author thinks, a disease

of development.

In a smaller number of cases, the spinal irritation seems to arise from changes in the spinal cord and its membranes; as, for instance, in the case related above, in which a growth of cellular tissue was found in the substance of the cord. It is possible that in many cases similar recent growths have been present without being discovered; hence, a thorough microscopical examination of the spinal cord is most essential to the right understanding of the true nature of chores. The growth may be small, circumscribed, or diffuse; may cause slight or serious mechanical irritation; and the symptoms vary accordingly. In short, the anthor regards chorea as an irritation of the spinal cord, induced and maintained—(1) by ansemia, (2) hypersemia, (3) serous and hemorrhagic exudations, (4) by new growths and organic changes in the region of the spinal marrow and its membranes. This spinal irritation may have a traumatio or a rheumatic origin, or may result, as above, from some anomalous conditions of development and growth. The author therefore classes chorea amongst affections of the spinal cord.

The course of chorea is generally chronic. He has only seen one scute fatal case. In some instances chorea has been cut short by the supervention of one of the acute infectious diseases. In a little girl, 6 years old, a severe attack of scarlet fever cut short the dorea, which never returned. In another case, an attack of measles cured chorea of long standing; it returned, however, after the measles had left, but in a milder form. Chorea often returns. Of fifty-two cases, the author saw it return in five children twice, in one child three times, in two children four times; the interval varied from four months to two years. With regard to treatment, on the principle that chorea is, in the majority of cases, associated with amemia, he gives iron alone, or in combination with nervine tonics, as zincl oxyd. If it be associated with rheumatism, he gives quisine and digitalis, but the most successful remedy in his hands has been Fowler's tincture, which he has rarely found fail, especially if iron be given first. The largest dose in one day was eight drops, but he begins with a dose of one drop, and gradually increases it. Its use is not continued after fourteen days, if no benefit results. He also uses cold water in many cases, in the shape of wet sheets.

Upon Vascular-Motor Disturbances of the Extremities in some Febrile Diseases, especially in Preumonia.

By R. LEPINE.

Much attention has been paid to the congestion of one or other cheek that occurs in pneumonia, but comparatively little to the vascular-motor disorders that take place in the extremities

in febrile diseases, especially in the case of old people.

The chief symptom of these vascular-motor disorders is a very important increase of the temperature of the extremities of the one side of the body. The difference of temperature may be perceptible in one part, or over the whole of the extremity, or even over the upper and lower extremity, but it is more frequent in the upper limb. It is occasionally accompanied with increased redness of the skin. The author has found the difference of temperature to vary from 1° to 3° centigrade. In cases where the upper extremities exhibited a great difference of temperature, the thermometer in the axilla only indicated an increase of some tenths. As a rule the increa of temperature of the extremities was found on the side of the body corresponding to the affected side of the chest.

The symptom does not appear to have any great prognostic importance; the cause is not yet quite clear, but it is conjectured that it is dependent upon a functional derangement of the hemispheres of the brain, and is analogous to pneumonic hemiplegias. Though in no case, as yet, has any apoplectic symptom been noticed, yet some alteration in the cerebral condition of those suffering from this complaint has been remarked. The author has more than once seen slight hyperemia of the medulla and the sympathetic. It remains for pathology to explain this very interesting symptom.

Acute Atrophy of the Liver.

By Dr. BUDESPITZ, Physician to the Wicdner Hospital. by Dr. Billeria, inspread to the wreater mospital, 1899, S. A., and the S. A. and the last monthly period. No other cause but great mental depression and anxiety could be found for her illness.

son and anxiety count do tound not nor mines.

Present Condition.—Patient well developed; body of icteric colour; selerotic yellow; pupil somewhat dillated; langs and heart normal. The liver duliess reached from the fifth to the righth rib. Stomach distended; abdomen tympanitic; left inguinal glands swollen; alight blenorthea vagina. The patient complained of retching, sickness, and giddiness. Pulse 84; temperature somewhat increased; tongue coated; stomach and liver region tender. Ordered ice to the head, warm fomentations to the liver; alkaline mixture.

May 30. - The giddiness had ceased; slight retching;

pulse 84; tongue coated; no stool. 31st.—Two stools; pulse 90. June 1 to 6.—During these days she was free from head-ache; much exhausted; pulse 80—90; a water injection brought away stools, partly coloured partly colourless.

7th to 11th.—Severe headache suddenly came on, with night weats, vomiting, retching; the colour of skin more yellow; tongue coated; pulse 84-96; great thirst. "Quinine was now given; an enema daily; and ice to the head and by mouth." 12th .- Headache and retching less; pulse 86; night sweats;

greater thirst.

13th.—A very restless night. The patient was very delirious, tossing to and fro in bed, and shricking; could hardly be kept in bed. The very slightest touch in the region of the liver caused severe pain. Muscles of face distorted. Abdomen distended and very tender to the touch. Night sweats; unconsciousness; trismus. Percussion of the liver gave a resonant sound between the sixth and sepenth rib; everywhere else percussion clear and tympanitic. On account of the trismus medicines could not be swallowed. Morphia was injected subcutaneously.

14th.-Sho was quiet one hour after the injection. Unconsciousness continued. Urine and faces passed involuntarily. The patient groaned whenever the liver region was touched; the jaws tightly clenched; pupils insensible to light; extremities cold; pulse hardly perceptible. She died convulsed

at 8 in the evening.

Analysis of the Urine during Life.—Urinary sediment contained much mucus, some lithates, and epithelium; slightly acid; sp. gr. 1012; odour of bile; colour yellowish brown. The urea, chlorides, sulphates, phosphates, uric acid, all diminished in quantity. Pigment matter, carbonate of ammonia and lithates present, and much cholepyrrhia.

Post-mortem Examination. - Body well-nourished; skin of icteric colour; brain membranes tinged yellow; brain cedematous. Left lung adherent in lower lobes; hypostatic congestions; in pericardial cavity half an ounce of yellowish fluid; ecchymoses on surface of heart. Liver weighed 1 lb. 9 oz., and had all the appearance of acute yellow atrophy. The gall-bladder contained tenacious mucus; stomach distended, its mucous membrane swollen; ovaries enlarged.

REVIEWS.

The Treatment of Surgical Inflammations by a New Method, which greatly Shortens their Duration. By Fueneaux Joedan, F.R.C.S. Eng., Surgeon to the Queen's Hospital, etc., Birmingham. London: J. and A. Churchill. 1870.

"The great majority of diseases which the Surgeon treats are of an inflammatory character." Mr. Jordan wisely makes this the opening sentence of his book, for it at once reminds the reader that a plan for the treatment of the great majority of Surgical diseases by a new method which greatly shortens their duration would be perhaps entitled to a place in the first rank amongst the benefits conferred upon the Profession. How far the fair promise of the title is borne out by the subsequent chapters we will endeavour to show. As evidence of the earnest manner in which our author has gone about his work, we quote from a passage in which he attempts to give the train of reasoning which ultimately led to the discovery of the new

"To logical minds no remedy is the worse if it is capable of intelligent explanation. To such minds, if any select class & remedies are not only in practice the best, but are also the most remetites are not only in practice the feet, but are also the most consistent with physiological and pathological laws, their value consistent with physiological and pathological laws, their value different periods, started on two different routes in search of the best remedies, and both hit on exactly the same remedies, the grounds for using such remedies would not be weakened. I have attempted to do this. I sought with a single desire for truth (and the usefulness of truth) to discover the best remedies for inflammation on theoretical grounds. . . . I then, and entirely without bias, I believe, endeavoured to discover the most rapid cures of inflammation, and under what circum-

stances, and by what means.'

After this preliminary stimulation, it is not a little disap-sinting to find that the plan of treatment of inflammations pointing to find that the plan of treatment of unnammacons aid down in this volume merely includes attention to the following rules:—(1) Remove the cause, (2) secure rest, (3) elevate the part, (4) apply pressure, and (5) employ counter-irritation. And this rule of treatment Mr. Jordan, counter-irritation. And this rule of treatment Mr. Jordan, "discarding for the time authorities, books, teachers, and friends," endeavours to apply to all inflammations alike. But we venture to suggest that, in this wholesale renunciation of all external advice, Mr. Jordan erred, inasmuch as a careful and external survice, art. Jordan erred, inasmuch as a careful reference to authorities would have shown him that similar principles of treatment, founded upon similar observations, had guided others before him, and that those former workers had quite intentionally and that those former workers had quite intentionally. had quite intentionally modified and varied the treatment, simply because they saw that the complex series of pheno-mena included under the term "inflammation" produced very different manifestations as they affected different parts of the body, and in different degrees of intensity.

In the pursuit of his great inquiry, the author tells us that he had observed that a mustard poultice will often cure a bronchitis; that pressure will ensure the speedy relief of an inflamed synovial membrane; and that rest will sometimes allow an inflamed part to heal, which it will not do whilst in constant motion; and he was accordingly led to the conviction that counter-irritation, pressure, and rest are important principles in the treatment of inflammation. There can be no capes in the treatment or innamination. There can be no doubt that Surgeons have not been sufficiently impressed with these matters of every-day observation, and it may be frue that, in endeavouring to adapt the treatment of a given inflammation to its special manifestation, they have risked losing sight of the practical truth insisted on by the suthor, that inflammation being everywhere the same, the same printhat innamination being everywhere the same, we same reighe of treatment will always be successful; and certainly Mr. Jordan's experience seems to justify his position in this regard to an extent which, without his numerous confirma-

tory cases, we should have been slow to recognise.

We have no wish to be misunderstood. Although no new remedy is brought forward, yet the manner in which Mr. Jordan insists upon the unity of the inflammatory process wherever occurring, and the consequent expediency of a uniform rule of treatment in all cases, is something sufficiently novel in Surgical practice. It is assuredly too much the fashion to speak of pressure, for instance, as being an excellent remedy for certain inflammations, as orchitis, or synovitis, and yet to hesitate about its universal application, although it seems to us obvious that, as Mr. Jordan says, a necessary condition of inflammation being increased space, a judicious limitation of inflammation to saig increases space, a judicious ammation of pagac—in other words, present—suggests itself at once as an appropriate remedy. Not that we very cordially approve of the shot-bag recommended by the author as a specially good way in which pressure is to be applied. Anyone who has had much experience in the treatment of inflamed breasts must be aware of the difficulty encountered in the endeavour to secure equal pressure on such a part, and any such clumsy or unequal pressure as is too apt to be afforded by the shot-bag only increases the pain, which uniform pressure as certainly and immediately relieves. In the same manner, Mr. Jordan no doubt does good service by his enthusiastic praise of counter-irritation, which seems to constitute the "new" method referred to in the title. After a very careful perusal of what is stated on this head, however, we fail to discover anything novel beyond, indeed, the universal application of the remedy, and its exaltation at the expense of other well-recognised methods of treatment. For the rest, Jenner, Clutterbuck, Higginbottom, and other well-known writers on the subject have been nearly as loud in praise of irritants as Mr. Jordan himself. It is, perhaps, the most serious defect in the book that, in order to invest counter-irritation with the prestige of that, in order to invest counter-irritation with the pressys or being the remody for inflammation, other highly important sids are disregarded or condenned. Thus, we meet with such passages as this:—"Cold, locally, is in most case very painful, and I have never seen any rapid result from its use. It would that that, directly applied to an inflamed part, it ought to which the condenness of the condenness of the condenness of the depresses all action of whatever kind. The probable crylinan-tion of its comparatively mercical mutilities is that its action is depresses all action of whatever kind. The probable explana-tion of its comparatively practical inutility is that its action is only superficial. To cool or freeze the skin merely over an inflammation, even where the skin is involved, tends to aggravate the inflammation." And, in like manner, no men-

tion is made of other modes which have been practised, with striking results, for cutting off the blood-supply from an in-flamed part, as deligation of the main artery of the limb. In Mr. Simon's article of inflammation in Holmes's "System

f Surgery." under the head of Treatment by Counter-irritant Measures, the following suggestive remarks are made :-

"But besides this antagonism effected through the general "But besides this antagonism cureous turough the general circulation, there probably are antagonisms of a local charac-ter; and parts which are respectively supplied by different contiguously rising branches of one arterial trunk, seem spe-cially able thus to antagonise each other. For, assuming the flow through an arterial trunk to remain the same, one branch or set of branches can only transmit more blood, if simultanneously another branch or set of branches transmit less; and we may well conceive it to be an important function of vasomotor nerves to provide for the adjustment of this antagonism, by establishing such inter-arterial sympathies that the relative opening of one branch shall determine the relative closure of opening as only offering and theorem the threat recommended blood is measured by the degree in which it is indocent or active, so to stimulate a part is the sure way of determining blood to it. Ubs stimulus, ities offers we may be determining stimulating one part, we may, it is believed, divert blood from another. The irritated part, structing blood to itself through arteries which open wider to facilitate the process, is supposed to become increasedly antagonistic to all parts which are in arterial sympathy with it, including, of course, any inflamed part which is thus circumstanced."

It is upon this special method of employing counter-irritation that Mr. Jordan lays so much stress, and nearly all the illustrative cases, which form the bulk of the volume, are instances of

its application.

These cases, admirable in their brevity and surprising in the support which they give to the doctrines enunciated in the text, form the most interesting part of the volume, whilst the simple outline sketches which illustrate them are all that could

be desired for the purpose.

As instances of what can be accomplished by the treatment which Mr. Jordan has so heartily adopted, we may mention that the list of over 180 cases quoted includes examples of acute orchitis cured in twenty-four hours by painting nitrate of silver over the scrotum, and stripes of blistering fluid over the femoral arteries; of acute generation cured in three or four days by blistering the periueum and femoral regions; of chronically enlarged cervical glands, which had resisted every other known treatment for three years, cured in three weeks by iodine irri-tation at the back of the neck; of immediate relief of pain and rapid subsidence of nodes round which a belt of irritation was traced; and of hosts of other inflammations of all kinds cured

bouring main vessels.

As to abscesses, we are told that, " with this treatment, as a general rule, it is not necessary to open abscesses;" but "incisions are often an excellent form of counter-irritation, and in this way they are beneficial in the great majority of abscesses.

But the counter-irritation of incisions is tardy in its effects;" and hence it is better to employ some more active

with apparently marvellous celerity by the simple process of irritating the surrounding skin and blistering over the neigh-

remedy, as a stripe of cantharides or iodine.

rementy, as a stripe or eastmandes or rotune. Finally, as examples of the preventive efficacy of counter-Finally, as examples of the preventive this awoman livel seven days after an injury of the intestine, and then died rather suddenly from shock, with except finese spread freely over the bowels, but with no sign of peritonitis—a result ascribed to vigorous applications of iodine to the skin on the onset of any Of course, it is possible that here the freces escaped pain. Of collect, it is possible that here the acceptance only shortly before death; but the case is striking enough. In another case, in which recovery followed ovariotomy performed during peritontia, the result is also ascribed to counter-irritation at the groins, and it is specially pointed out that there could be here no post-hor propter-hor delusion, although it is not the first recorded case of recovery under such untoward circumstances.

In order to estimate the value of Mr. Jordan's book fairly, it is necessary that one should dismiss from one's mind any claim to novelty which is suggested by its title and the general hand-ling of the subject, and to regard it merely as an earnest plea for the more general recognition of the usefulness of a measure which, perhaps, has not been duly estimated, and which certainly seems to have lapsed too much into desuctude of late years. As a text-book for students, the work is gravely defective; but as the record of enthusiastic industry in pursuing a special line of treatment, and as a catalogue of cases most convincing in their results, the book will, doubtless, effect.

great good in securing more general attention to the frequent excellent effects of counter-irritation. With such uniformly favourable experience in the lands of Mr. Jordan, it is indeed surprising that the treatment has not been long since adopted by all his colleagues in the Queen's Hospital; but we have no doubt that this publication will induce them, as well as other Hos-pital Surgeous, to make a fair trial of this therapeutic agent. and the result will probably be that this remedy will be once more generally used, although it may be not so exclusively employed as Mr. Jordan thinks expedient.

First Medical and Surgical Report of the Boston City Hospital. Edited by J. Nelson Borland, Physician, and David W. Cheever, Surgeon. Boston: Published by the Board of CHEEVER, Surgeon. Trustees. Pp. 688.

In a former notice, we drew attention to a certain portion of the contents of this volume; the remainder we now proceed to consider. An article on the Treatment of Acute Rheumatism is communicated by Dr. John G. Blake; the eases (300 in number) communicated by Dr. John G. Blake; the cases (300 in number) have been selected from over 500 admitted during the five pears of the Hospital's existence. The treatment was partly alkaline, produced the control of the production of the control of the production of the control of the control of the control of the in 125 cases, of which eighteen became complicated with heart affection, even after being some days in the Hospital, but within a week or thereby of the onset of the disease; and of trees two died, Of the rest, the endocardial nummurs dispop ared in one-half before leaving the Hospital. The results are hardly so pleasing as the advocates of the alkaline mode of treatment would have us believe. Blisters were tried in a cortain number of cases; pain was relieved for a time, but was apt to return. The average stay in Hospital of the patients arented with alkalies was twenty-four days, by other means thirty-five.

An interesting article on the Treatment of Skin Diseases, by Dr. Damon, follows. He compares his statistics with those of Professor Erasmus Wilson. A valuable contribution to Medical science, by Dr. J. Baxter Upham, comes next in order. He gives, in a tabular form, the results attained in the Hospital in the treatment of typhus and typhoid fevers. Of typhoid, 152 cases were treated, of typhus, only 38. In 148 cases of typhoid, 132 cases were treated, of typhus, only 38. In 148 cases of typhoid, forty-three of the patients were between 10 and 20, and eighty-three between 20 and 30. Of the 152, 131 recovered and twenty-one died, but the ages of the patients who died are not given; nevertheless the facts but stated tend to the state of the state of the patients who died are not given; nevertheless the facts but stated tend to the state of the state given; nevertheless, the facts just stated tend to show that

typhoid is a disease of early rather than advanced life. In fatal cases, the average highest temperature was 105.7. Of thirty-five cases of typhus, the disease occurred in eight between 10 and 20, fourteen between 20 and 30, six between 30 and 40, and four between 40 and 50, the other three being under 10. Of the thirty-eight, ten died. A good many points of interest are overlooked in these reports, but the materials

of interest are overlooked in these reports, but the materials s-wen to have been rather imperfect.

The next paper is by Dr. Cheever, and deals with reproduction of the libia. The cases given are two in number. The control of the libia. The cases given are two in number. The small-pox and measles, was left in very bad health. Here right teg became painful, pus formed, and by-and-bye dead bone was discovered. In operating, the bone was cut across just below the junction of the epiphysis to the shaft above, and the whole of the lower portion of the bone removed, thus exposing the ankle-joint. The periotecum was very loosely exposing the ankle-joint. The periotecum was very loosely day bone could be fort; in right at difficulty. By the eighteenth and be considered, but it was not till five months had classed consistence, but it was not till five months had elapsed that she was allowed to put her foot to the ground. During this time the continuous action of the muscles had drawn the head of the fibula half an inch higher than usual. This is common in excisions of the body of the tibia. The second case also occurred in a girl, 8 years old, who had suffered from suppurative periositiis. Five inches of the shaft were removed, and the patient did well. A third case was in Hospital at the date of the above writing.

There is not much to be said with regard to the ophthalmic report by Dr. Henry W. Williams, or of that on the aural department by Dr. J. Orme Green. Next come two cases recorded by Dr. Cheever; one of encephaloma of the tonsil, another of occlusion of the vagina. The former disease is very rare; in this case there seems to have been no doubt as to the malignancy of the tumour; but the microscopic appearances as here detailed leave some doubts as to its anatomical nature. The mass was removed from without, as it projected considerably, and the operation was entirely successful. In the other case a cul de sac only existed. In dissecting to reach the uterus the peritoneum was opened, and the patient sank and died.

The uterus was bipartite. Dr. A. D. Sinclair contributes a very fair article on "Peri-uterine Inflammation"—if we can call a collection of upwards of twenty cases, without any specific comment, an article. Some of the cases occurred in Hospital; one, it would seem, in private practice. Under the above title the author comprehends more than one form of disease, which have more commonly

been known as varieties of pelvic cellulitis.

The last regular article in the volume consists of an abstract The last regular article in the volume consists of an acciracy of the Surgical work of the Hospital, by Dr. Cheever. Four aneurisms of largearteries have been treated—three popliteal, one innominate. One popliteal was treated successfully by flexion; in another this failed, whilst accurres succeeded. The third in another this failed, whilst acupressure succeeded. case terminated fatally from erysipelas, the vessel having been occluded by acupressure. In the operation for the innominate aneurism, the patient died almost on the tuble. It was a case amentamu, ine patient used aimost on the tune. It was a case in which no such operation should have been attempted. For other reasons than anenrism, the common carvida was titled four times: thrice unsuccessfully. The linguist was three times tied—in all successfully. The femoral was once tied for harmorrhage; the patient died of pysemiswas once tied to includingly, the first was once tied (successfully) for hemorrhage. The external iliac vein was twice tied—once for a wound penetrating the vessel, when the patient survived; and again for hemorrhage from the femoral vein, but too late to says the patient. The femoral vein was once tied for a gunshot wound in the groin; the patient died in three hours. A number of cases of cut throat are next recorded. Next, cases of tracheotomy and asophagotomy, of perineal section, and operations for the radical enre of hernia and for strangulated hernia. Finally come fractures and amputations. The general Medical and Surgical tables of the Hospital conclude a volume which, if not deserving the high-flown encomiums paid to it, is yet highly creditable to the industry and intelligence of the staff of the Boston City Hospital. Above all things, it proves that Hospital reports may be something better than the useless records of amputated fingers too common among ourselves.

Annuaire de l'Université Catholique de Louvain. Trente-einquième Année, Louvain. 1871.

The Calendar of the Catholic University of Lougain. Thirtyfifth Year. 1871.

Wg are indebted to Dr. Lefebvre, Dean of the Faculty of Medicine in the Catholic University of Louvain, for the little volume whose title stands at the head of this article. Although many of our readers may know that there is such a University from the fact of Van Beneden, the celebrated naturalist, being a Professor in it, they probably have little idea of its completeness as a school for students of theology, law, Medicine, pieteness as a school for students of theology, law, Medicuse, philosophy, and literature, and of schoology, civil engineering, philosophy, and literature, and of schoology, civil engineering. Professor: in that of law, twelve: in that of Medicine, thirteen; in that of philosophy and literature, fifteen; and in that of technology, etc., filteen. From a catalogue of the works written by the members of this academic body during the five years intervening between January, 1856, and December, 1860, we see that the Medical Professors have been by no means idle; Dr. Hubert, Professor of Midwifery, having published fifteen memoirs, and his son, Dr. Eugene Hubert, Prof.-agrégé, three memoirs, and a "Cours d'Accouchement," in two volumes; Dr. Lefebvre, Professor of General Therapeutics and Pathology, three special works (one of which we shall anu ratnoiogy, unree special works (one of which we shall take an early opportunity of reviewing), and three memoirs; and M. Van Kempen, Professor of Anatomy, having brought out a second edition of his "Traité d'Anatomie Descriptive et d'Histologie Spéciale," in two volumes, containing nearly 1000 pages, a third edition of his "Manuel d'Anatomie Générale, and two reports, one on the last epidemic of cholera in Belgium, and the other on the eucephalic functions. In the other and the other on the eucephanic functions. In the other departments, and especially in the faculty of technology, civil engineering, and mining, the Professors have been fully as active, M. Henry, Professor of Chemistry, and M. Van Beneden, Professor of Zoology, being especially deserving of honourable mention.

The University contains four colleges-that of The Holy The University contains our conegree—that of The Holy Ghost, for the study of theology; that of Fope Advisor VI., for the study of philosophy and law; that of Maris-Thérèse, for the study of the sciences and of Medicine; and that of Juste-Liper, for the study of the classics (les humanités). In some respects

this University sets an example that our own older and better endowed universities might imitate with advantage. It possesses endowed universatives might imitate with advantage. It possesses a laboratory for general chemistry, another for analytical chemistry, and another for chemical manipulations, besides a museum and laboratory of industrial chemistry; there is a botanical garden presided over by Professor Martens, a botanist of European fame; and there are special muscums of miner-alogy, of metallurgy and of mining, of zoology and compara-tive anatomy, of human anatomy, of experimental physiology,

and of archeology.

Each year is divided into two academic terms, besides which there is an Easter vacation of about three weeks, and a summer vacation extending from July 11 to October 3. During his first year the Medical student attends lectures on anatomy, physiology, comparative anatomy, and pharmacology, and at the close of the session is examined on these subjects. During the second year he attends courses on special pathology and tice second, year he attends courses on special pathology and therapeutics, general hethology and pathological anatomy, and passes his Premier Examen de Docteur. His third year is devoted to the study of forensic Medicine, midwifery and diseases of women and children, midwifery. midwifery and diseases of women and children, midwifery poperations, public and private by giene. Surgical pathology, and operations, public and private by giene, Surgical pathology, and the property of the curriculum is of a very efficient character.

Lists of the successful candidates are given, from which it appears that during last year twenty-six passed the third and final examination for the Doctorship, five of them seee is plus

grande distinction, and nine avec distinction.

As the subject of university expenses is one that is still agitating the public mind, it may be worth while to mention that students are received into the Colleges of Pope Adrian VI. and Marie-Therèse on payment of 600 frs. or £24, annually. Each student bus a study and a bedroom, which are furnished by the College for a fee of 8 frs. yearly !

GENERAL CORRESPONDENCE.

TREATMENT OF NASO-PHARYNGEAL POLYPUS BY ELECTROLYSIS.

LETTER FROM DR. JULIUS ALTHAUS.

[To the Editor of the Medical Times and Gazette.] Siz.—I shall feel obliged if you will kindly give a corner of your valuable journal for the following case of naso-pharyngeal polypus, which has been successfully electrolysed by Professor Von Bruns, of Tübingen:—

A male patient, aged 23, suffered from a large fibrous polypus of the pharynx, which the Professor removed with Maisonneuve's constricteur, in December, 1866, after previous division of the velum palati. The tumour, however, soon after the or war reason parasi. In a tumour, nowever, soon after the operation, began to grow again. In April, 1869, the polypus filled up not only the whole pharyngeal cavity, stretching forth into the eavily of the mouth, between the edges of the artificial eleft pulate, and reaching down to the lower end of the solum, but also about 11.11.00. the velum, but also elogged the left masal cavity, close down to the nostril; whilst, by further but invisible ramifications, it the most it wants, by intract out invision ranneauous, it wants in May, 1830, detertolysis was resorted to, one needle being inserted into the plaryngeal and another into the mast portion of the polypus. The treatment was continued, with a few interruptions, up to March 1870, when the polypus had been so far destroyed that nothing more could be seen of it, and only a small remaining trace could be felt by the finger introduced into the pharyngeal and nasal cavity (two inches farther into the latter). The improvement commenced as soon as electrolysis was resorted to. The time required for the electrolytic destruction of this

tumour was certainly long; yet it is satisfactory to find that the treatment ultimately proved successful in a case in which so bold and skilful an operator as the Professor of Surgery of Tübingen declined to undertake a second operation by other and more rapidly-acting Surgical procedures

I am, &c.,

JULIUS ALTHAUS, M.D. Pryanstone-street, Portman-square, W., March 18.

THE WATER THEORY OF CHOLERA, AND THE INDIAN SANITARY COMMISSION.

LETTER PROM MR. DE RENZY.

[To the Editor of the Medical Times and Gazette.]

Sra,-In the "Sixth Annual Report of the Sanitary Commission with the Government of India," there are some errors and omissions in the statement of the facts bearing on the question omissions in the statement of the facts bearing on the question whether contaminated water was the principal means by which whether contaminated water was the principal means by which important to correct. After reviewing the history of the epidemic in the country at large, Dr. Cuningham censes to the conclusion that the facts do not favour the water theory of propagation, and he adduces the cases of the Amritsar guol, and of the cantonments of Peshawur and Kohat, in support of

this opinion. I shall examine these cases separately.

In the Amritsar Gaol, "the water," says Dr. Cuningham,
"was reported to be of good quality, and the civil Surgeon is of opinion that it could not have been contaminated by any cholera discharges." Now, as a matter of fact, the water was extremely bad. Its composition, as ascertained by an analysis made for the Amritsar Cholera Commission by Assistant-Surgeon Whitwell, was as follows:—Total solids per gallon, 49 grains; volatile matter, 7 grains; sodium chloride, grains; ammonia, present; nitrous acid, present. "But," says Dr. Cuningham, "to make sure that any danger arising from this quarter might be obviated, all the drinking water was boiled and filtered before being used." There is no doubt that the water was purified by these processes, but there is good reason to suppose that the water, as it came fresh from the well, was largely used by the prisoners; they had free access to the well for ablution and other purposes, and it is a matter of universal experience in Punjaub gaols that prisoners are induced with the greatest difficulty to use water which has undergone any sort of manipulation. In fact, in gaols where the Hindoo element predominates, as it does at Amritaar, prisoners will only use such water when water in its natural state is altogether unprocurable. There are facts which lead me to think that in the case under consideration water was not the medium by which the cholera virus was introduced; but the history of the case is not by any means so incompatible with the water theory as Dr. Cuningham's report represents.

with the water theory as Dr. Cuningham's report represents.

As regards Peshawur, Dr. Cuningham admits that the
principal source of water-supply—the Bara River—"was
subject to every form of pollution." But he argues that, as subject to every form of pollution." But he argues that, as some of the troops who took their supply from a comparatively pure well suffered equally with those who took their supply from the stream, the part which water played in the dissemination of the disease was of very secondary importance. But as the troops are situated at Peshawur, it is quite impossible to be sure what water the men drink. They may have pure filtered water in their barracks, but when they go out for a walk they may have to drink cholera-tainted water in the bazaar, which takes its supply from one of the Barn cuts, this same cut their like at the same cuts. same cut being, like other cuts, subject to every kind of pollution from latrines, wash-houses, etc.

A further argument advanced by Dr. Cuningham is, that a great part of the cases in H.M. 36th and 10th Regiments occurred in camp, when the regiments were away from their ordinary sources of supply, and separated from each other by a number of miles. Now, in connexion with this fact one most important circumstance has to be stated. The camps into which the infected troops were removed were almost entirely dependent for their water supply on irrigation cuts, which, like those in the station, were exposed to every kind of pollution; and, further, the villages in the vicinity of the camps were themselves infected with cholera at the time. The bearing of this fact on the question at issue is obvious.

At Kohnt, again, Dr. Cuningham admits that the water-supply "was liable to pick up all forms of impurity in its course." It is conveyed into the station in an open channel, into which a portion of the plain, used as a latrine and urinal, drains. "But," he says, "there is no evidence that the water was the cause of the disease, much less that the dangerous element which it diffused had been derived from cholera evacuations." Demonstrative proof is not to be expected in such a case; but when we find that the Kohat gool, which has an independent and comparatively safe water-supply, has preserved an immunity from four cholern epidemics, in which the troops and the people of the town, who live within a few hundred yards' distance (the gaol is actually within the town boundary), suffered most severely, it is difficult to resist the conclusion that the water was the medium of contamination in the case of the troops and town population who used the stream water, especially when this conclusion accords so well with the results of experience elsewhere.

In describing the outbreak at Subathn, Dr. Cuningham speaks of "the sanitary condition of the station as good water wholesome, and not liable to contamination." water is obtained from several sources, not one of them being entirely safe, but some of them are so situated that it is hardly possible for them to escape contamination. One of the sources is a very shallow well, sunk in the gravelly bed of one of the watercourses which serve as the drains of the station. It is obvious that here, too, the facts of the case are not incompatible with the water theory. Subathu is the most unhealthy of the hill sanitaria, fever and diarrhosa being the prevailing diseases. This fact has hitherto been referred to the comparatively low altitude of the station; but it will be advisable to reject such an explanation until measures have been taken to place the an expanation until heasiles have been supply beyond the possibility of contamination. Beautiful barracks have been built, and large sums spent in improving the conservancy and general sanitary condition of the station, but the water-supply is so bad as almost entirely to nullify the advantages which might have been expected from these measures.

Dr. Beatson, the Inspector-General of Hospitals H.M.'s British Forces, and other high Medical anthorities, despair of its being possible to effect any substantial improvement in the health of the troops quartered in the plains of Iudia. They maintain that as regards barrack accommodation, conservancy, and other important arrangements affecting health, there is little further scope for improvements. I can only speak for the Punjanb, with every station of which I am now familiar. In that province, at least, nothing has as yet been done to In that province, at least, nothing has as yet osen done to insure a pure supply of water to the troops, and I will not dispair of its being possible to secure them against the epidemics which prove so destructive to them until this great reform has been effected. I might mention other reforms, of secondary importance, which are still needed, but, in the present state of the province, the reform of the water-supply is the one which

presses most urgently for attention.

The statements of the Sanitary Commission with the Government of India are calculated to damp the energy of the Government in carrying out this reform, by weakening the motives for undertaking the work with vigour and completing it without delay; but, as regards the Punjaub at least, his conclusions are, I think, based on an erroneous or an imperfect conception of the facts.

I am, &c., Kingstown, March 18.

A. C. C. DE REVEY.

REPORTS OF SOCIETIES.

OBSTETRICAL SOCIETY OF LONDON. WEDNESDAY, MARCH 8.

Dr. BRAXTON HICKS, F.R.S., President, in the Chair.

WALTER RIGDEN, M.R.C.S., and George Eugene Yarrow, M.D., were elected Fellows of the Society. The following gentlemen, Wattie Rioder, M.R.C.S., and George Eugene 1 arrow, al. J., were elected Fellows of the Society. The following gentlemen, recommended by the Couneil, were elected Honorary Fellows of the Society:—Alexander Keiller, M.D., of Edinburgh; George H. Kidd, M.D., of Dublin; and Richard T. Tracy, M.D., of Melhourne, Victoria. Mr. Truns exhibited a Fostus, the subject of Encephalocele. The child presented by the face, and was still-born.

The Passilexy exhibited for Mr. D. Johnson a specimen of Deformed Fortus, with the vilacents adherent to it. there being

Deformed Fotus, with the placenta adherent to it, there being no funis. Referred to a committee.

Dr. Westmacort showed a remarkable specimen of "Corkscrew Funis."

Dr. Granville Bantock showed the Vaginal Speculum of Professor Neugebauer, of Warsaw, which he thought was not sufficiently known. It consisted of two parts, the inferior or posterior, and the superior or anterior, exactly similar, and introduced separately. Dr. Bantock considered the instrument more generally useful than any other with which he was acquainted, and he exhibited one made for him, which was longer

and smaller than the original pattern.

A paper by Drs. Braxrow Hicks and Phillips was then read, entitled "Remarks on Tables of Mortality after Obstetric Op-rations." It commenced by some general remarks on the Operations. It commenced by some general remarks on the subject of statistics, pointing out that to be of any value in Medicine it was highly important that the data upon which

they were founded were reliable. Strictly speaking, they should be absolutely correct. Statistics derived on an extensive scale from incomplete data, though in some instances valuable to a certain extent, were not to be made use of as proof against the truth of another opinion resting on a more sure though less broad basis. The palpable vitiating causes of statistics were incorrect data, whether resulting from unreliable sources or from incorrect grouping and incorrect mode of application. The importance of these considerations was evident when conclusions derived from statistics were brought to bear as a guide to practice. The paper had been suggested by analysing the tables of mortality after operations quoted by obstetrical authors, and of mortality after operations quoted by obstetrical authors, and its object was to draw attention to the imprefect mode in which these had been drawn up, and to the delusive conclusions to which they consequently lead. The plan adopted in the paper of the cases which made up the ordinary tables of mortality recorded by almost every obstetrical writer. This was done in reference to cranictomy, the use of the forceps, and version; and, so far from those operations having a mortality as stated in books, the cases were found to be very few which the operation could with any above of probability be made account-danger of midwifery operations, the authors stated that it should be elearly borne in mind that they were especially nershould be clearly borne in mind that they were especially per-formed to counteract the effects of some one abnormal conformed to counteract the emets of some one annormal condition, or more than one, occurring simultaneously or consecutively. Extracts of several of the cases were read, and in reviewing the reports death could in the great majority be clearly traced to the disease for the alleviation of which the operation was undertaken, or to the lamentable neglect leading operation was undertaken, or to the immentance negrect feature to the too long postponement of it. Cases of overy degree of complexity had been grouped together in the tables, and many a death attributed to an operation which probably would not

have happened had the operation been sooner performed.

Dr. CLEVELAND was willing to admit that the authors had clearly made out a case showing the dangers that were likely to accrue from the use of imperfect statistics, but, on the whole, he was disappointed that they had suggested no remedy. He thought such accuracy of judgment and skill in operating as would insure data for perfectly reliable statistics on a comprehensive basis were scarcely obtainable.

After some remarks by Dr. Aveling,

Dr. PLAYPAIR said that the abstracts of the cases just read showed beyond doubt that the fatal result was in almost all of them to be traced to the unnecessary and culpable delay in resorting to artificial felivery. The whole tendence of modern midwifery seemed to him to show the importance of early interference in suitable cases. The truly scientific practice was, not to dread the operation, but to know when and how to resort to it

Dr. HEYWOOD SMITH thought the paper one of great practical usefulness, inasmuch as by drawing attention to the existence of fallacies in the statistics of mortality after obstetric operaions, it opened the way to a more scientific method of operating —viz., when it is determined that an operation is necessary, the sconer it is proceeded with the safer for the patient. He suggested the drawing up of a form for circulation, so arranged as to facilitate the more accurate and ready registration of all cases of difficult labour.

Dr. Mador would have been glad to hear from the authors the result of their own practice and experience. In a large midwifery practice, during the last extrem years, he had been fortunate enough not to meet with a single maternal death after craniotomy or the use of the forceps. The principle advocated in the paper against delay in employing instrumental or other aid in cases of difficulty was a sound one, and should be strongly enforced.

Dr. ROOERS appreciated the labour expended in examining the original cases, and his experience quite agreed with the results deduced, that the great mortality in operative midwifery

resulted from delay in interfering.

Dr. Hicks and Dr. Phillips replied.

Dr. Butvor read the particulars of a case in which the entire ovum was expelled at the seventh month of gestation. and the child rescued alive, although it must have been born at least fifteen minutes before being taken out of the membranes. Dr. Brunton thought the case supported Sir James Simpson's practice in placenta previa of extracting the whole placenta before the birth of the child.

Dr. Mador said, with regard to the absence of hemorrhage Dr. MADDE Suid, with regard to the assessment of memorine from the placental surface, the case was only an additional proof of the correctness of the views he held on the subject. The mere separation of the two layers of cecidua—secretina and uterms-did not necessarily give rise to hiemorrhage. This and therms—that not necessarily give rise to neutron logic only occurred when those membranes from various causes cointeneed to break up. The probable explanation of the child being alive was, that as the fostnes in utero had some-what of an aquatic existence, it was still in its own element. and for a while not far removed from intra-uterine conditions. Dr. HEYWOOD SMITH said the child's circulation continued as

if it had been still in ntcro, with the substitution merely of acration by the atmosphere, acting directly upon the uterine

aspect of the placenta, for the maternal blood.

The PRESIDENT agreed with the explanation given by Dr. The PERBILEYS agreed with the explanation given by Dr. Heywood Simith, that as the placenta was exposed to the oxygen of the air the circulation was kept up. The exposure to cold might, at the same time, have lessened the demand for oxygen. Dr. Wilterings said the case had Medico-legal bearings.

Dr. CLEVELAND had within the last fortnight been called to a lady at full term whose child and placenta were expelled with scarcely more than a hemorrhagic stain on the bed-linen.

Dr. Grido said that the practical lesson from Dr. Brunton's case was to take care, should the placenta be expelled before the birth of the child, to expose its uterine surface to the air.

MEDICAL SOCIETY OF LONDON. MONDAY, MARCH 13.

DR. ANDREW CLARK, President, in the Chair.

Dr. Andrew Clark, on taking his seat as President, delivered an Address which was listened to with great interest and attention.

A vote of thanks was then given to Mr. Gay, the retiring President, for his activity and zeal during his year of office, and also to Mr. Barnes, the Secretary, whose term of office had

expired.

Dr. RICHARDSON then read the paper of the evening, entitled "Some Further Additions to Therapouties: Organic Bromides, Metachloral; with a Note on Sulphur Alcohol." The author first described the methods of research in therapentics, which consist in following up modification of certain organic com-pounds by modification of the elementary composition of the compound. He then introduced some new medicinal bromides -viz., bromide of quiniue, bromide of morphine, and bromide of strychnine-together with combinations of the same. Bromides are best administered in the form of syrups, each drachm of the syrup containing—in the syrup of the bromide of quinine, one grain of the bromide of quinine; in the syrup of the bromide of morphine, one-eighth of a grain of morphine; and in the syrup of the bromide of strychnine, one thirtysecondth of a grain of bromide of strychnine. Compounds of the syrups of the bromides of quinine and morphine, and of quinine, morphine, and strychnine were also useful. In each drachm of these the same proportion of dose-wiz, one grain of quinine, one-eighth of a grain of morphine, one thirtyor quintile, one-eigent or a grain or morphine, one unrey-secondth of a grain of strychnine—was maintained. Dr. Richardson had found the bromide of quinine of great service in syphilitic ulceration. He had obtained most valuable results from frequently repeated doses of syrup of bromide of results from frequently repeated tools of syrup of formine of quinine and morphine in cases of neuralgis; and is a case of diabetes the syrup of quinine, morphine, and strychnine had been signally successful. The bromide of quinine he believed the best preparation in cases of remittent or intermittent fever. Dr. Richardson next brought forward bromah hydrate; it was less soluble than chloral hydrate, and produced more con-vulsive action, and, on the whole, he did not think it could at all replace the last-named substance. He then passed on to anhydrous chloral, placing before the Society a specimen of pure anhydrous chloral, and, by the addition of pure water, it pro-duced chloral hydrate. Chloral itself is a fluid caustic; it abstracts water rapidly, and might, he thought, be usefully abstracts water rapidly, and might, he thought, be usefully employed as a causitie is some cases where soft fungous growths required to be removed. Chloral hydrate absorbed would be found to exert an after sedative influence. A specimen of metachloral was then shown, an insoluble white substance made by expessing chloral hydrate to sulphuric seld. This substance is isomeric with chloral, and when treated with absal is resolved into chloroform and chlorate of the alkali absal is resolved into chloroform and chlorate of the alkali employed. Administered to inferior animals, it seemed to act as a gentle narcotic; being probably slowly decomposed in the as a gentic narcolus; being probably slowly decomposed in the body, it may yet prove of service in practical Medicine; lastly, Dr. Richardson exhibited a specimen of mercaptan, sulphur alcohol (C₁H_cS), in which sulphur replaces the oxygen of ordinary alcohol. He detailed a number of interesting facts

bearing on the action of this agent, dwelling especially on the bearing on the action of this agent, dwelling especially on the mental depression it produces even when taken in very minute quantities. The alcohol is exhaled by the breath as it passes from the bodies of animals, and communicates to the breath peculiar odours like the odour met with in wasting diseases. From this fact the author deve a suggestion for a new line of research in diagnosis—viz., the detection of organic sulphur compounds derived from the blood in the air expired from the lungs by diseased persons. Sulphur compounds the blorated in the dimentary cannil seemed harmless—i.e., were not absorbed -but it was now quite certain that when some of them are actually introduced into the circulation, even in minute quantities, and are diminishable by exhalation from the lungs, quantities, and are diminished by exhibiting from the heart, and mental depression. We may therefore, infer that the formation of sulphur compounds within the circulation from disease might account for some examples of excessive temporary prostration, for the cause of which we have as yet no satisfactory. factory explanation.

Mr. Gay called the attention of the Fellows to a very ingenious contrivance made by Bower, for allowing a patient with injury of a lower limb to take exercise; it is called the "invalid bicycle." It consisted of a frame on wheels, with a movable rest for the unsound limb, crutches, etc.; the patient progressed readily by pressing onward with the sound limb.

LEGAL INTELLIGENCE.

SPITTLE v. WALTON. (Before Vice-Chancellor BACON.)

Evidence-Witness of Unsound Mind.
On December 9, 1870, one Joseph Beddoe, on a Medical cer-ON December 9, 1870, one Joseph Destoce, on a facture certificate, was placed as a present of association of the factor of the f was, the Commissioner went to the asylum, saw Beddoe, went over the affidavit with him, asked him if he understood the facts, and could speak to the facts as there stated. Beddoe answered that he could, and volunteered a statement in addition to some of the particulars mentioned in the affidavit, and he was accordingly sworn.

ne was accordingly sworn.

The affidavit was stated to be "sworn at Sutton Coldfield, in
the county of Warwick, the 9th day of January, 1871, before
men a Commissioner to administer oaths in Chancery in
England."

The Vice-Chancellor held that the Commissioner had not discharged his duty properly in taking the affidavit and de-scribing it as sworn at Sutton Coldfield, without calling attention to the fact that it was sworn by a person of unsound mind on some points, in a lunatic asylum. Both here and at common law, some preliminary inquiry was necessary for the purpose of assertaining the capacity of a person tendered as a witness, but alleged to be of unsound mind, before his evidence could be listened to. In this case, an affidavit out and dried was taken or instead to it in this case, an amount out and oried was taxed to the deponent and assented to by him during a lucid interval without the application of any test. The afflicati, which was wholly irregular and improper, must be taken off the file, and plaintiff must pay the costs; but liberty to the plaintiff to produce Beddoe at the hearing of the cause to give evidence eved roce was granted.

> IN RE WIDDOWE'S TRUSTS. (Before Vice-Chancellor MALINS.)

Possibility of Issue-Presumption of being Past Child-bearing-Spinster, aged 531.

This was a petition for payment out of court of two sums of money to which the petitioners were severally entitled, abso-lutely in case they left no issue, but only for their lives in case of their leaving any children.

The Vice-Chancellor held that it might be presumed that both the petitioners—one of them being a widow aged 554, who had never had any children, and the other a spinster, aged 531—were past the age of child-bearing, and directed the fund to be paid out accordingly.

CHOLERA has been prevalent in Madagascar, Vellore, and Bangalore.

OBITHARY.

GEORGE WOOLLEY, M.D.,

Was born at Dunkeld in 1813, and spent the early years of his life in that place, until the time of his entering upon his lifs in that place, until the time of his entering upon his Medical studies at Edinburgh. Here he continue until qualified as a Surgeon, and then returned to his native control of the co to leave London, completely broken in health, his right thigh and arm being severely crippled from several fractures they had sustained. He remained in the North recruiting his health for two years, and during his sojourn there married a daughter of the late Dr. Dyce, of Aberdeen. Having taken the degree of M.D. at Edinburgh, he again came to London about 1859, of M.D. at Editiourga, he again came to London shoot: look and reasured his practice, meeting with a hearty welcome from his many friends. Here he continued to labour, till the presence of domestic anxiety and the death of his wife broke his spirit and his health. Symptoms of heart disease soon appeared, and compolled him to discontinua his duties. These symptoms increased in severity, and at last terminated fatally on the 30th ult. Dr. Woolley was characterised by many high qualities, his honourable, just, and upright mode of living gaining the confidence of all who knew him, while his warm, sympathising, and generous heart won him many friends, and obtained for him the affectionate esteem of the old and young alike. His removal will be felt in many a home, and his name and memory will retain lasting respect.

MEDICAL NEWS.

ROYAL COLLEGE OF PHYSICIANS OF LONDON.-The undermentioned gentleman passed his First Professional Examination on April 4 :-

Fowler, Breame Weston, of St. George's Hospital.

ROYAL COLLEGE OF SURGEONS OF ENGLAND .- The following gentlemen passed their Primary Examinations in Anatomy and Physiology at a meeting of the Court of Examiners on the 4th inst., and, when eligible, will be admitted to the Pass Examination :-

see Examination, and, when telegrote, will be and see Examination of the Hull Bell Analyst, Henry, 16 Cup? Hospital.
Ashley, Henry, 16 Cup? Hospital.
Bell, O. Parson, of the Hull Beller Hospital.
Bennets, William H., of R. George's Hospital.
Bennets, William H. of R. George's Hospital.
Colley, Thomas Henry, of Guy's Hospital.
Hallows, M. Coleman, of St. Bartholomer's Hospital.
Hallows, M. Coleman, of St. Bartholomer's Hospital.
Hallows, M. Coleman, of St. Bartholomer's Hospital.
Hudson, John, of the Leeds behool.
Jordan, Profertick W., of the Manchester School.
Jordan, Profertick W., of the Manchester School.
Lambert, John, of the Leeds behool.
Hospital.
Mahomed, P. Alber, of Guy's Hospital.
Mahomed, P. Alber, of Guy's Hospital.
Price, J. Jagod, of the Leeds School.
Price, T. Devinus, of Guy's Hospital.
Simmonds, W. Albacon, of Guy's Hospital.
Simmonds, W. Albacon, of Guy's Hospital.
Simmonds, W. Albacon, of Guy's Hospital.
Williams, Leonard, of R. Thomas's Hospital.
Williams, Leonard, of R. Thomas's Hospital.

The following gentlemen passed their examinations on the 5th inst., viz. :

II., VIZ.: —
II., VIZ.: —
Andrews, Samuel, of St. Bartholomew's Hospital.
Batterbery, George II., of King's College.
Batterbery, George II., of King's College.
Batterbery, George II., of King's College.
Lockeys, E. Merry, of King's College.
Dakeys, C., Thomas E., of the Westminster Hospital.
Dakeys, C., Thomas E., of the Westminster Hospital.
Droot, Wan, of University College.
East, George E., of St. Mary's Hospital.
Garract, William A., of Goy's Ziorpital.
Granger, F. Marradou, 4th the Laeds School.
Green, James, of the Manchester School.

Griffiths. A. Vavasour, of the Barming, and School, Hall, Janne T., of the Manchester edisod. Hall, Janne T., of the Manchester edisod. Hall, Janne T., of the Manchester edisod. Hall, Janne T., of the Barbichouse's Hospital, Joseph, George W., of the Liverpool School. Lawrence of the Control of the Contro w a Hospital.

Nine candidates on the first day and six on the second having failed to acquit themselves to the satisfaction of the Court of Examiners, were referred to their Anatomical and Physiological studies for three months.

APOTHECARIES' HALL. — The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday, March 30, 1871 :-

No. 10 M. Prodevick, Purk-place, Brixton,
Challe, Prodevick Fring, Guernaey,
Frean, Bichard, Middleses Hospital,
Hanne, Alfred Heary, Notting-phill,
Mafe, Heary Davis, Provil,
Mafe, Heary Davis, Provil,
Mafe, Heary Davis, Provil,
Wilks, Charles Benjamin, Gloscoster,
Wilks, Wilks,

The following gentleman also on the same day passed his First Professional Examination:—

Elam, Shrofield, Guy's Hospital.

MILITARY APPOINTMENTS.

BOYAL ASTILLARY.—Assistant-Surgeon William Creyk, M.B., from the 4th Foot, to be Assistant-Surgeon, vice Frederick Joseph Byrne, who resigns.

rvesgus.

4rr Foor.—Staff Assistant-Surgeon John Livingstone Power, to be Assistant-Surgeon, vice William Creyk, M.B., appointed to the Boyal Artillery.

7rr Foor.—Surgeon John Hendler, having completed twenty years' full-pay service, to be Surgeon-Major, under the provisions of the Royal Warmat of December 2f, 1850.

147H Foot.—Surgeon John Edward Moffatt, having completed twenty years' full-pay service, to be Surgeon-Major, under the provisions of the Royal Warrant of December 27, 1870.

MODAL WATERIA OF DECEMBER 27, 1870.

1978 FOOT.—Supposed Herry Bolton Hamard, having completed twenty years' full-pay service, to be Surgeon-Major, under the provisions of the Royal Warrant of December 77, 1870.

MEDICAL DEPARTMENT.—WARM Assistant-Surgeon William Collin, to be Staff Surgeon, rice William Alexander Davision, M.D., placed upon

half-pay.

BIRTHS.

CHARLES .- On March 25, at Calcutta, the wife of Dr. T. E. Charles, of a

DEMISTER.—On March 27, at Rosemount, Tramore, co. Waterford, the wife of J. Carroll Dempster, M.D., Deputy Inspector-General of Army Hospitals, of twins, a son and daughter.

Evans.—On April 2, at Acacia House, Finchley-road, N.W., the wife of Evan Evans, M.D., of a son. HAMMOND .- On April 1, at Ipswich, the wife of C. W. Hammond, M.D.,

or a son. Individual to the Architecture of the Architecture of Architecture o

THEODALDS —On March 5, at Jubbulpore, the wife of Surgeon-Major J. R. Theobalds, Madras Army, of a son.

MARRIAGES.

BONAVIA—ORDORNE.—On March 31, at Christ Church, Marylebone, E. Bonavia, M.D., Surgeon Bengal Ariny, to Lucy Mary, eldest daughter of G. A. Osborne, E-q., 22, Lorset-square, London.

of U. A. Unicerus, Soc., 22, Lorent-esquare, Ladonou. Monague-Ballan.—On March B. Ballanda. March B. Ballanda. B. Ballanda

DEATHS.

GEORGE, ROSERY VILLINES, M.D., at Malaga, after a short illness, on March 96. Hopens, Eowano, M.D., on April 1, at Redland, Bristol, aged 67.

Pigor, J. M. B., M.D., at Ruddington, Notts, on March 26, aged 86 WOODFALL, JANE, widow of the late John Ward Woodfall, M.D., at Maid-stone, on April 3, aged 64.

WOOLERY, GROBGE, M.D., native of Dunkeld, at 143, Camden-road, on March 30.

VACANCIES. '

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of cleetion (as far as known) are stated in succession.

made, and the day of election for far as known as spite action about be Arcasaru Urov-Medicale for a known are stated in succession. District. Candidates must have the qualifications prescribed by the General Orders of the Foor-law Board. Applications and testimonials to Gro. Winn, Eq., jun, Clerk to the Guardians, one force April 17. Devia Li Houvitz. or Levens, 26, Sono-sept and.—Devide Force April 17. Devia Li Houvitz. or Levens, 26, Sono-sept and.—Devide Grow and England. Applications and testimonials to the Secretary on or before April 13.

ESSEX AND COLCRESTER HOSPITAL.—House-Surgeon and Apotheoary; must have both Medical and Surgical qualifications, and be registered. Applications and testimonals to the Committee at the Board-room, on Applications are or before April 13.

HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CREST, BROWFTON, S.W.

—Assistant-Physician; must be M.D., or M.B., or M. B.C.P. Applications and testimomials to the Secretary, on or before April 19.

LINCOLN COUNTY HOSFITAL.—House-Surgeon and Apothecary; must be M.R.C.S.E. and L.S.A. Applications and testimonials to the Secretary, or or before April 10.

LINCOLN GENERAL DISPENSARY.—House-Surgeon; must be M.R.C.S. Eng., and be also either L.S.A. or L.R.C.P.L. Applications and testi-monials to the Secretary, on or before April 10. Election on the 15th

LONDO From Hospital,—Assistant-Physician; must be F. or M.R.C.P.L.
Applications and testimonials to the Secretary, on or before May 9.
Election on the 12th.

MIDDISMX CONTY LEVATIC ASYLUM, COLMEY HATCH.—Assistant Medi-cal Officer for the Female Department. Candidates must be duly quali-fied and registered. Applications to be made on printed forms, which can be obtained of the Medical Superintendent, on or before April 15, after which date no applications will be received. The election will take place on the tuth

Nonwicz Dispersauv.—Resident Medical Officer. Candidates must be duly qualified. Applications and testimonials to the Treasurer on or before April 20.

Pasish or St. Panceas.—Public Vaccinator. Applications and testi-monials to D. Fildew, Clerk, at the Vestry-hall, on or before April 10. Election on the 13th, at 12 p.m., at which time candidates are expected to attend.

TO RITEM'S COLLEGE, BIRMINGHAM.—Medical tutor; must be a Member of the College of Surgeous of England, Ireland, or Scotland, or a Graduate of a University of Great Britain or Ireland. Applications and testi-monials to the Scoretary, on or before April 8.

ROYAL SURERY COUNTY HOSPITAL.—Assistant Honorary Medical Officer, Applications to the Rev. C. R. Dallas, Farncombe Rectory, Godalming,

n or before April 27.

on or before April 37.

ROYAL DETRO IL DOSTILLA BATH.—Honorary Physician; must be a ROYAL DETRO IL DOSTILLA BATH.—Honorary Physician; must be a Royal Bather of a College of Physicians. Applications and technical be the Committee, or before April 10.

SOUTH REASON BATHER IN CHARGE A PROSTILLA WALVEST AND A PROSTILLA BATHER IN COLUMN BATHER IN CO

"Chairman of the Medical Committee," on or before April 29. Laceton on May 8.

8 waxsa Hospital.—Resident Medical Officer; must have both Medical and Surgical qualifications. Applications and testimonials the will commence on May 1.

82. Election on the 29th. The duties will commence on May 1.

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82. Election on the 29th. The duties will commence on May 1.

83. Election on Laceton Commence on May 1.

84. Election on the 29th. The May 1.

85. Applications and testimonials to Mr. House-Surgeon; must be qualified to practise under the Medical Registration. Act of 1858. Applications and testimonials to the Secretary, on or before April 15. Election on the 29th.

POOR-LAW MEDICAL SERVICE.

* The Profit-Law MEDICAL SERVICE:

* The Profit is stated in acres. The population is computed seconding to the create part of the profit is stated in acres. The population is computed seconding to the RESIGNATION.

East Word Colon.—Mr. Charles C. Mayre has resigned the Brough District; acres \$1,00; pp. APPOINTMETS; 16 to, per annual. APPOINTMETS; 16 to, per annual. APPOINTMETS; 16 to, per annual. APPOINTMETS; 16 to, per annual.

District. District, Community Incorporation.—Wm. Dresser, M.R.C.S. Eng., L.S.A., L.R.C.P. Lond., to the First District. Charles E. V. Goate, M.D. Univ. Elin., LR.C.S. Edin., L.S.A. Lond., to the Second District. John Overton, M.R.C.S. Fag., L.S.A., to the Third District.

Bast Presson Union.—Thomas II. Willian, M.R.C.S. Eng., L.S.A., to the

Third District.

Third District.

Slipton District.

Slipton District.

Slipton District.

Higher Chief.

Higher

DR. ROBERTS, of St. Asaph, who was thrown from his carriage, as we recorded last week, has since died.

In the news by the West India mail we find that cattle plague had broken out in Chili.

ONE of the old hulks at Devonport has been lent to the Civil authorities at that port, for a Hospital for patients suffering from infectious diseases.

WATERWORKS in connexion with the collection of springs have just been commenced at Bath. The reservoirs will be about five miles from the centre of the city, and the sources which will be utilised are spread over some distance.

An important meeting has just been held in Newcastle, for the purpose of forming a College of Physical Science in Several handsome subscriptions were promised, that town. and it is to be hoped the scheme will meet with the general support of the public.

The annual report of the University College, London,

inst published, shows a highly satisfactory condition of affairs.
The most important event recorded is the establishment of a new faculty (science), which, says the report, "marks a distinct stage in the development of the College."

MISS RYLANDS, a lady whose name is associated with many noble works of benevolence and charity, has contributed £500 to the Committee of the Working-men's Fund for the extension of the Queen's Hospital, Birmingham.

tension of the Queen's Hospital, Diffungaman.
THE result of the Poor-law Board inquiry as to certain
charges preferred by the managers of the Central London
Sick Asylum District against Mr. B. Roberts, their clerk, has
been his dismissal by the Foor-law Board.
THE Foor-law Board having displaced two of the

Medical officers of St. Pancras, in consequence of their not residing within their districts, the Board of Guardians last week appointed, from among seventeen candidates, Mr. John Hall, of Chalk Farm-road, Medical officer for district No. 3, and Mr. J. Mitchell, of Euston-square, Medical officer for district No. 4.

WHILE labouring to extinguish the fire caused by the Prussian artillery in the Civil Hospital on August 25 last, M. Emile Hepp, the well-known pharmacentical chemist, of Strasbourg, and one of the most illustrious men of science that France has lost by the war, received an injury which has cansed his death, at the early age of 52.

SMALL-POX has made its appearance at Lagos, but its ravages had, up to the last accounts, not been severe.

ACCORDING to the latest information, small-pox is pre-ACCOMPTION on the facest maximation, sintar-pox is prevailing in China and Japan among the civil population, and to a slight extent among the troops.

THE New Zealand Herald reports that a supply of animal vaccine lymph has been forwarded to the colony from the

vaccine lymph has been forwarded to the colony from the Belgian government. It has been extensively employed by the Practitioners of the Island, and by order of the government the public vaccinator is strictly to conform to the wishes of the public as to the employment of either human or animal lymph. This Sanitary Commissioner of the Punjaub draws attention to the loss of life by small-pox which occurs annually in the Punjaub, a country which is yet practically unprotected by a vaccination. In that province, with a population of the province of the pr mormous. Any person walking through the streets of a Punjaub city is struck by the immense proportion of persons blind of one or both eyes, a calamity caused in 99 cases out of 100 by small-pox. Europeans, who, as a rule, are tolerably well protected by vaccination, suffer very little, though they live in the midst of a never-ending epidemic.

An additional illustration of the effectiveness of vaccination as a preventive of small-pox comes from Wrexham. Two deaths have occurred there. In the house where they Awo castan nave occurred there. In the house where they cook place, there were father, mother, and seven children, the cook place, there were father, mother, and seven children, the years, and 5 months. All but the one who was 6 years old and the one who was 6 months old had been vaccinated, and these only were attacked by the disease. They were taken ill on Friday night week; the deler died early on the following morning, and the younger in the afternoon, the illness being of the most virulent character.

THE METROPOLITAN WATER COMPANIES .- The necessary alterations for a constant water-supply-alterations of mains and services to adapt them for a general constant supply -are calculated to involve an outlay of from one and a half to two millions on the part of the metropolitan companies.

THE Metropolitan Board of Works have undertaken to defray the whole cost of converting the waste land contiguous

terray the whole cost of correcting the waste and configuous to Stepney-green into a recreation-ground. THE VALUE OF REVACUATION.—A few weeks ago small-pox appeared in the Glasgow Industrial School. Dr. Dunlop, the Assistant Medical Officer of Health, was instructed to inspect the children, numbering 150 girls. Seven were found with small-pox fully out. On the following day seven others were taken ill. One hundred and ten girls were vaccinated, and five ladies. Since then there has not been a single case.

WESTMINSTER DISTRICT BOARD OF WORKS. - At a westmissize District Board of Friday, the Hon. A. Ponsonby presiding, a report from the Street-cleansing and Sanitary Committee was submitted, recommending the use of Mr. Cooper's patent salts for watering the whole of the district during the ensuing season, which was carried unanimously.

GREENWICH HOSPITAL NAVAL MEDICAL PENSIONS .-The London Gazette reports that, in addition to one Deputy-Inspector-General's pension of £80 per annum, and fourteen Staff-Surgeons' and Snrgeons' pensions of £50 per annum, another pension of £100 per annum, for an Inspector-General, and two additional pensions of £50 per annum, for Staff-Surgeons and Surgeons, are to be established.

THE BABY-FARMING CASE AT MANCHESTER .- Frances Rogers, the baby-farmer, who was arrested by the Manchester police a few weeks ago, was on Monday committed to the assizes on distinct charges of murder, attempted marder, obtaining money by false pretences, and misdemeanour for having neglected to provide proper nourishment to the children under her care.

PUNISHMENT FOR FILTHY HOUSEKEEPING .- At the Salford Police-court, last week, Dr. E. S. Syson, Medical Officer of Health, charged William Robinson, 119, Hodge-lane, Officer of Health, charged William Robinson, 119, 1100ge-1ano, with keeping his house in so filthy a condition as to be prejudicial to the health of the inmates. Dr. Syson said that he had brought this case before the Court as a warning to filthy housekeepers generally. The defendant was fined 2s. 6d. and

DR. MARY-DURAND, writing in the Siècle, observes that the experience of the garrison of Metz is nearly conclusive that salt meat does not play so great a part in the production of scurry as is generally supposed. The defenders of Metz were deprived of salt from September 4 to October 17, and yet suffered severely from scurry. Dr. Mary-Durand attributes this disease to cold and damp, to the want of fresh vegetables, to compalsory drill, and, above all, to insufficient food. He also considers notslaging a powerful adjunct to these cases. The bearings of this mental affection on the disease have been DR. MARY-DURAND, writing in the Siècle, observes plainly visible in the Prussian army, and among the Breton Mobiles, who often suffer from mal-du-pays.

MANCHESTER MEDICAL MISSION .- The first annual meeting of the Manchester Medical Mission was held at the offices, 176, City-road, last week. The distinctive character of the Mission was the combination of the healing of the body and the presentation to the afflicted of spiritual consolation. Dr. Smeal, the Medical Superintendent, submitted a report of the operation of the Mission during the year. It was esta-blished February, 1870. The funds went to provide medicines measure recurary, 1840. Ane tunds went to provide medicines and dispensing requisites. The number of patients who had visited the dispensary during the year was 4565; the visits to house by the Medical Superintendent, 5091; total visits, 9560. Devotional services, numbering 104, attended by patients and others, had been held in connexion with the Mission, at which

2017 had been present.
DR. E. W. MURPHY.—The hand of sickness and poverty has fallen upon the late Professor of Midwifery at University College. For a considerable time past he has been unable either to lecture or to practise. A committee of influential members of the Profession has been formed for the purpose of amendors of the Profession has been formed for the purpose of raising a sum of money sufficient to procure him an annuity of £59, to keep him, in his declining years, in something like comfort. About £450 is required, of which nearly half has been subscribed. We have no doubt it will be forth-coming. It would, indeed, be a reflection upon us as a Profession if we allowed a man who occupied at one time so high a position as Professor Murphy to sink for want of pecuniary aid. Dr. Arthur Farre is the treasurer to the fund.

MORTALITY IN INDIA.—In the central provinces during the month of October the number of deaths in a population of 6,732,447 was 12.819. Of this total, no less than 9688 were dne to fever, bowel complaints 1434, and anake-bites and wild animals 70. There was not a single death from cholera, and but few from small-pox, but the total rate is still high.

Amongst the towns, Jubbulpore gives the worst return, the deaths being 4.8 per 1000; whilst in ten others it was above 3 per 1000. The cattle disease continued in some districts, but it was not spreading. In the north-western provinces the death-rate for October was, per 1000—Cholera, '02; small-pox, '01; fevers, 2-22; bowel complaints, 30; injuries, 62; all other causes, 20: total, 2-80. There were 85 deaths from suicide— 24 males and 65 females-122 from wounds, 483 from accidents, and 140 from snake-bites and wild animals. Population about 30,000,000

ROYAL INSTITUTION OF GREAT BRITAIN.—At the reneral monthly meeting of this Institution, on Monday, April 3, 1871, Warren De la Rne, Esq., D.C.L., F.R.S., Vice April 3, 1871. Warren 196 is 10th, 1881, 1961. It. 1865. Wieseller, in the chair, the following gentlemen were seeded. Robert Hannah, 1894; John Henry Mackenzie, 1894; 1894. Robert Hannah, 1894; John Henry Mackenzie, 1894. Req.; 1894. Robert Hannah, 1894; Joseph Reynolds Masters, 1894. George Borwick Robertson, 1894. P.C.S.; George Wilson, 1894. The special thanks of the Members were returned for the following the seed of The special thanks of the Members were returned for the following donation to the "Fund for the Promotion of Experimental Researches":—T. William Helps, Esq. (sixth donation), £10. The presents received since the last meeting were laid on the table, and the thanks of the Members returned for the same.

ROYAL COLLEGE OF SURGEONS. — At the primary examinations for the diploma of Membership, which were brought to a close this day (Thursday), there were 108 candidates, to whom the following questions in anatomy and physiology were submitted, viz.:—1. Describe the atlas and axis, with the articulations and ligaments connecting them with each other and with the occipital bone. 2. Describe the with each other and with the occipital some. 2. Describe the structure of the capillaries and veins, and the mechanism of the systemic, capillary, and venous circulation. 3. Give the origin, course, and distribution of the following nerves:— (1) glossopharynged, (2) hypoglossal, (3) internal pudic.

4. What is meant by excito-motory action? Describe how
the excito-motory circuit is completed, and give instances
exemplifying this action in health and disease. 6. Give the dissection required to expose the internal mammary artery and its branches; noticing (but not otherwise describing) the parts its branches; noticing (but not otherwise describing) the parts brought into view or removed in the process. Then state the conrec, relations, distribution, and anastomoses of the trunk and its branches. 6. Enumerate the various kinds of cartilage, give examples of each kind, and a description of its minute structure and properties.

ROYAL SEA-BATHING INFIRMARY, MARGATE. - The MOVAL SKA-BALIMO INFIRMANI, BLANGIAE— ZUR annual general meeting of the above institution was held on Friday last at the offices, Chespidio. The report stated that the Hospital has now 250 beds, and remains open all the year round for patients affilied with serofulous diseases. The number of patients in the Hospital during 1870 was 866, of number of patients in the Hospital during 1870 was 664, of whom ninety-five were discharged cured, 204 greatly benefited, 158 benefited, forty-nine unrelieved, and seven had died; the remainder (158) were still in the Hospital. The out-patients during the year had been sixty-nine. The total income for the year had been 6676 le 7.4, and the expenditure had been £7988 0s. 1d. The report concluded with an earnest appeal for extended necessity as were formed to the content of the conte

for extended pecuniary support.

SANITARY DISPOSAL OF THE BODIES OF THE SEDAN BATTLE-FIELD .- In a letter from Sedan dated March 19, the combustion of the bodies, as conducted by the Commissioners of the Belgian Government, is described. They employed very simple measures for preventing any ill effects from the delete-rious miasmata which might arise when the heat became great. The pits having been opened, and the bodies stripped naked The pits naving oven operaris, and the content stripped market without deranging them, tax was poured in in proportion to the number of bodies buried, so as to cover them with a very thick layer of this liquid. When this had fiftrated in every direction, petroleum oil was poured over the bodies, and set fire to, the flames being rendered more frece by larchwood. They spread in every direction, penetrating even to the bottom of the pits, so that at the end of three hours nothing remained of the bodies but the bones in a state of complete reduction. While all this was going on, fumes of chlorine were abundantly While at this was going on, times of choins were automated, disengaged, and the workmen declared that they did not perceive the slightest cadaverie odour. After this calcination of the bodies, a solid layer of dry tar had formed over the of the bodies, a solid layer of dry tar had formed over the pits, which was quite capable of preventing any exhalations, but, in addition to this, dry chloride of lime was thrown into the pits, and they were filled up with earth and lime so as to form very good tunnel. According to the Commissioners, with the exception of those which had been conducted under the surveillance of the French authorities, the interments had been

made in the most detestable manner, pits containing 160 bodies having been covered only with ten centimètres of earth .-Presse Med. Belge, March 26.

"THE beer bill at several of our county asylums," says the Manchester Examiner, " has formed the subject of conversation at the Lancaster annual general sessions. During the past tion at the Lancaster anusal general sessions. During the past year no less than 48,469 gallons of beer were consumed at the Prestwich Asylum; 23,688 gallons at Lancaster; 22,779 gallons (including porter, which is described as the favourite the two first-named institutions is more apparent, when we are told that, while Prestwich drinks twice as much beer as Lancaster, it has only about half as many patients. But it is said that this is only another illustration of the difference between town and country: Prestwich draws its patients from favoured with a rural constituency. The consequence is that, favoured with a rural constituency. The consequence is that, favoured with a rural constituency. The consequence is that, while Prestwich may want four times as much beer, Lancaster consumes three times as much milk. Last year Prestwich put consumes three times as mucu mis. Lans, year a restrict on mith, while Lancaster appropriated 1027 gallons. The question unturally arises how far beer is suitable for the ordinary consumption of lunatics. One magistrate observed that at the small asylum at Ribchester the inmates were found to be better without beer than with it: and presumably similar results might accrue elsewhere. how, the subject is one which may fitly be taken up by Medical Practitioners.

NOTES, QUERIES, AND REPLIES.

De that questioneth much shall learn much .- Bacon.

The Secretary of the State Board of Health of Massachusetts is thanked for his courtesy. Both copies have arrived.

Dr. A. G. Bartley, Moolton .- Your letter, with enclosure, has come safely to hand.

A Constant Reader.-This journal is the organ of no corporation or institu-Medical politics are those held by moderate reformers, not by revolutionists

The Milk Journal.—We are glad to find our young contemporary continuing its useful work, and still more to find that the honest men selling good milk, whose names we made famous last January twelvemonth, appear in the highest part of the Milk Journal's list of honest milk-vendors.

Ton HARVITTAN

"To THE EDITION OF THE MANAGEMENT AND DISTRICT OF SEA, "Only any of your readers inform the subserblew whether or not no analysis of the properties contained in the periodical wind on the Western Coast of Africa (colled by the natives "Anamataat"), long ago described by Matthew Dobson, Milkhar Amamataa "Jong ago described by Matthew Dobson, With the Amamata and the Coast of the C

Beta .- Different people attach different ideas to the term Five gentlemen on the staff of a Medical contemporary, the other day, walked into the Home Office, and told Mr. Forster they represented the Profession of Medicine!

L.S.A.-The Court of Examiners of the Apothecaries' Society includes Doctors of Medicine of the Universities of London, Edinburgh, Aberdeen, and St. Andrews; Members of the Royal College of Physicians, both by examination and election; and Fellows of the Royal College of Surgeons, by examination and election.

THE GRACUATES CHLOROPORY BOTTLE.

No. THE ROYTON OF THE MODICAL THER AND OLEFTH.

Sta.—Will you allow me to correct an erromous impression under which
Mr. J. Astler Bloxam labours with reyard to the graduated chloroform
better. If ruly believe that the the state of the product chloroform
better. If ruly believe that the the state of the product chloroform
better. If the state of the state of the state of the product chloroform
previously, but it is due to Mc-sex. Maw, Son, and Thompson, of Aldersalest-red, to say that twelve months ago they made a graduated
better of the state o THE EDITOR OF THE MEDICAL TIMES AND GAZETTE.

A Sufferer .- The Spinal Hospital is at 22, Great Portland-road

D., Plymouth,-The criticisms of that infallible oracle need not make anyone very sore. We make it a rule not to comment on the criticisms of our contemporaries Every tub on its own bottom. The phrase in question is like a bank-note: in itself it is a mere filmsy bit of paper, worth nothing, but civilised man uses it for convenience sake to repre-sent a value. Your expression is a convenient metaphor, and it is mere sent a value. pedantry to find fault with it.

OUT-PATIENT HOSPITAL REPORM.

OUT-ATIENT HOSTILL REFORM.

TO THE REPORT OF THE MEDICAL THEM AND OLIFITE.

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THE ADDRESS OF THE MEDICAL THEM AND AND OLIFITE.

THE COMMITTEE AND THE MEDICAL THEM AND AND THE ADDRESS OF THE MEDICAL THE MEDICAL THEM AND AND THE ADDRESS OF THE MEDICAL THEM AND THE ADDRESS OF THE MEDICAL THEM AND THE ADDRESS OF THE MEDICAL THEM AND THE ADDRESS OF THE MEDICAL THE

valuable information in regions or asystems, of Medical ruled, and the means by which these abuses have systems, of Medical ruled, and the means by which these abuses have systems, and the such as completely a possible, and to put the Profession and the public in possission of this possible, and to put the Profession and the public in possission of this committee have incurred considerable expense, and I venture to ask you once more to allow me to make this further appeal for high from those length done; and I would especially appeal to the mass of General Professioners, insuland as the abuse which we seek to remely affect them far this committee and the subject of the committee at present amounts to about £5%, and in order partly to meet this expense, the Committee hope that gredileme visibing dozen or more of postage stamps.

The reports may be had by applying to Dr. Stallacd, 7, King 4-road, square; or to Dr. Haymood minth, 20 curve, 4c. Luran Maxoova.

27, George-street, Hanover-square.

A Foreigner.-There is no institution of the kind in existence in this country.

Aqua.—The Metropolis Water Act came into operation in 1852 and 1853. Lymph from Revaccinated Persons,-Whilst some of our correspondents advocate the use of this lymph in time of need, we find that Dr. Trench, the Medical Officer of Liverpool, stated on Thursday, the 30th ult., at a meeting of the Health Committee, that he looked upon it as a great crime, at a time like the present, to use lymph taken from a revaccinated person. He would not say that true cow-pox might not be thus obtained; but it was very rarely so. To make vaccination effective, the lymph must be taken from a primary case. This we believe to be the best general rule, though, like all other rules, it may have exceptions.

INCHES OF MAYERNAL IMAGINATION OF POTTIS.

THE CENTER OF MATERIAL IRAGINATION OF FITUS.

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The New York Trans at Parking Briant.

The New York Trans at the Control of Medford, Massachusetts, described as a better by Trade, has made and recorded as the lift by which he bequeaths his body to Professors Louis Apassis and Oliver Wendell Holmes, of Harvard University, with a request that it shall control of the Co PERLIC SPIRIT.

d

Males, Females, Total,

790

W. C. T., Maidstone.—The University of Melbourne was founded in 1863, and has had a Medical school in connexion with it since 1862.

Homes Rouphersease.—An authenticated instance is recorded in Hardwicht's Reissen Genig for April. An old halp but he privilege of excluding the April. An old halp but he privilege of exhibiting luminous spots on her face. The phenomenon ranks with the hasephoreacent light smitted by decayed fish, wood, and fungi. Owery Arr the luminous spots on the human skin the habitat of cryptogunie growths, as in physicasis! The halm of persons who have allowed it to grow long, and tangéed, and filthy is said to be at times luminous, and the neglected hair of hermits to have emitted the light which is represented by the aresis around the heads of saints. Sparks of electricity are quite a different thing; the pare common comply when dry hair is brushed. The popular theory is that these phenomens indicate bad bealth; and this is probably true.

COMMUNICATIONS have been received from-

Dr. Keaus; Dr. J. C. Dempster; Mr. Charles Rose; Dr. Tirnion; Dr. E. Long Fox; Dr. Attpield; Dr. A. Meadows; Dr. W. Dale; Dr. P. R. Hoog; Dr. Farkers L. Galler; Dr. G. Bechanay; Mr. H. Harse; Mr. G. B. Black; Dr. J. A. Rose; Mr. F. H. Hoddes; Mr. E. C. Shoppers; Mr. J. Charto; Mr. H. Arsott.

BOOKS RECEIVED-

An Analysis of Cases of Organic Urebara Stricture, by John D. Hill, P.R.C.S.—Purinas (the Beal Truth about the Bonabantems), or the Volunters with the Besieped Armiss—Baddidfv's Dynamics of Nerre and Muscle—Brievis Examples of Laboures' Octages—Beport of the Wills Cosmy Asylum—Dr. William Richardson on Diabetes—Beard and Rockwell's McGleal and Supriged Electricity—Decesses of the Lungs affecting those who Work in Dusty Atmospheres, by J. A. Ross, M.D., etc.—Vaccination: as it Was, and as It k, by W. Webber, P.R.C.S.

PERIODICALS AND NEWSPAPERS RECEIVED-

Pharmaceuticai Journal - Journal of Mental Reinnes, April-Monthly Microscopical Journal, April-Indian Medical Gaustret, Marths-New Zealand Heralds—Guarterly Journal of Microscopical Reisens, April-Phitish and Foreigm Medics-Chiurgina Review, April-New York Medical Gaustte-Baywater Chrenicle-Edinburgh Medical Journal, April-Practitioner, April-Quarterly Journal of Science, April-Monthly Homocopthic Review, April-Westminster Review, April-Medical Frees and Circular

APPOINTMENTS FOR THE WEEK.

April 8. Saturday (this day).

Operations at St. Bartholomew's, 14 p.m.; St. Thomas's, 94 a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 94 a.m.; Royal London Ophthalmic, 11 a.m.

10. Monday.

Operations at the Metropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Peter's Hospital for Stone, 24 p.m.; Royal London Ophthalmine, 11 a.m.

11. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopsedic, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Ophthalmie, 11 a.m.

ROYAL MEDICAL AND CHEURGICAL SOCIETY (Ballot, 8 p.m.), 8 p.m. Dr. Silver, "On a Case of Retrogressive Labio-glosso-laryngeal Paralysis. Dr. Robert Lee, "On Amputation of the Cancerous Breast."

12. Wednesday.

Operations at University College Hospital, 2 p.m.; St. Mary's, 1‡ p.m.; Middiesex, 1 p.m.; London, 2 p.m.; St. Bartholomew's, 1‡ p.m.; Grat. Northern, 2 p.m.; St. Tomonas's, 1‡ p.m.; Samaritan, 2, 20 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmic,

EPIDEMIOLOGICAL SOCIETY, 8 p.m. Mr. T. J. Dyke (Merthyr Tydvil), Dr. Robinson (Leeds), Dr. Buchanan, and Mr. J. Netten Radeliffe, "On the Epidemie of Relapsing Fever." SOCIETY OF ARTS, 8 p.m. Meeting.

13. Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmic, 1 p.m.; Royal Orthopædic, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m.

14. Friday.

Operations at Westminster Ophthalmic, 1½ p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m.; South London Ophthalmic, 2 p.m.

CLISICAL SOCIETY, 69 p.m. Dr. Broadbent, "On Phosphorus as a Remedy in Skin Discases." Dr. Sims, "Case of Left Hemiplegia, with Total Loss of Right Eye." And other Papers.

MEDICAL SOCIETY OF LONDON, 8 p.m. Meeting of Council.

VITAL STATISTICS OF LONDON. Week ending Saturday, April 1, 1870.

BIRTHS.
Births of Boys, 1145; Girls, 1139; Total, 2254.
Average of 10 corresponding weeks, 1860-69, 2221-9.
DEATHS.

Deaths du Average of Average co Deaths of	the	ten year	188	0-69 d po	pulatio	m :	780		754 1	15	34:3
DEAT	HS	IN SU	B-I)IS	TRIC	TS	FRO	M I	PIDI	EMIC	s.
		Popula- tion, 1861,	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhoa,
West		458125	11	2	10	3	8		3	2	. 1
North	***	618210	74	1	2		9	2	3	4	3
Central	***	883321	11		5	***	1	. 1	2		1
East		571158	37	3	4		9	2	1	1	3
South	***	773175	59	7	12	3	14	2	4	4	6
Total		2803980	192	13	33	6	41	7	13	11	14

METEOROLOGY.

METI							
From Observations at	the	Gree	mei	ch O	bsere	ato	ry.
Mean height of barometer .							29 985 in.
Mean temperature							43.8"
Highest point of thermometer .							67.4
Lowest point of thermometer .							31.2
Mean dew-point temperature .							86.3
General direction of wind							N.N.E.
Whole amount of rain in the wee	ak .						0.03 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, April 1, 1870, in the following large Towns:—

	ion in 1871.*	Acre.	during April 1.	during pril 1.	Temperature of Air (Fahr.)			Temp. of Air (Cent.)	Rain Fail.	
Baroughs, etc. (Municipal boun- laries for all except London.)	Estimated Population middle of the year 1871	Persons to an As (1871.)	Births Registered the week ending A	Deaths Registered the week ending A	Highest during the Week.	Lowest during the Week.	Weekly Mean of MeanDailyValues.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London Portsmouth	3259469 125464		77	1564 3k	64'0	50.5	45-9	7.72	0.03	0.00
Norwich Bristol	81787 173364	10.8				32.0	40.6	4:77	0.15	
Wolverhampton	74438			22	64.5	28.2	42.3	573	0.08	
Birmingham	378574	48:3	284				43.4		0.00	
einester	101367	31.7	87	45	67.5	29.7	42'8	6:00	0.03	
Nottingham	90480	45-3	100	37	70.4	30.4	46'7	7:06	0.25	
Liverpool	596225		379	363	65:0	30.3	42-9	6.08	0.01	
Manchester	379140	841	967	199	68-0	31'0	43.6	6.44	0.00	
Balford	123851	93.5	108	64	70.5	28.0	42'8	5.13	0.01	
Bradford	149030	221	1.58	52	64:0	32.0	43.2	6.39	0.02	
Leeds	266108			119	6610	33.0	44'2	6.78		0.00
Sheffield	255247			94	558.5	32.4	4214	5.18		0.53
Hull	135195	381	89	51	57.0	2910	39.6	4:23	0.12	0.38
Sunderland		31.5	130	44						
Newcastle-on-Tyne	136293	25:3	123	69	55.0	31.0	39-7	4:28		0.33
Edinburgh	179944	40%		104	63.7	83.0	46'5	8.02		0.00
Glasgow		941		318	55.4	27.0	42'8	5.84		0.00
Dublin (City, etc.+)	822321	331	279	154	87.5	27.0	4810	6.11	0.02	0.13
Total of 20 Towns in United Kingd'm	7336941	341	5684	3578	70-8	2810	43.0	6.11	0.07	0.18
Paris-Week ending April 1 Berlin-Week end	1.98984	2 96		1	1					
ing Mar. 30	. 80000	85								100
Vienna-Week end ing Mar. 25	. 6220B			1	1	l	١		1	

• The actual numbers of the population of these cities and boroughs, an enumerated at the Census in April next, will probably be available before the middle of the year, and will then be substituted for these estimates, it Inclusives of some suburbs.

ORIGINAL LECTURES.

ON ORCHITIS FROM IRRITATION IN THE PROSTATIC URETHRA.

A CLINICAL LECTURE DELIVERED AT THE LONDON HOSPITAL. By JONATHAN HUTCHINSON.

Surgeon to the Hospital, and Lecturer on Surgery.

GENTLEMEN.-There is an elderly man at present in Mellish Ward who was admitted on account of an old stricture of the urethra, with half-a-dozen urinary fistules. I succeeded in introducing large-sized instruments, but his fistulæ were very troublesome, and showed no tendency to close. I advised, therefore, that he should have the urethra freely opened in the middle of the perineum, and a catheter passed through the wound and retained. This was done, and with very good results. The man improved in health, and his discomfort from the fistule much diminished. At the end of a mouth, however, we were still compelled to keep a catheter in the wound, for if it was removed some urine at once escaped by the fistule. for it it was removed some urine at once escaped by the fisture. This was probably explained by the great length of his stric-ture, and the fact that it passed back to the membranous part of the urethra. Being disappointed that our new opening did not suffice of itself for the spontaneous secape of the urine, I suggested to my House-Surgeon to use a larger catheter (we had hitherto employed No. 10), and he, determined not to fall short of what was wished, introduced with some difficulty No. 15. I now come to the part of the case which is of special interest in reference to the subject of our present lecture. A few days after the larger catheter had been put in, I found the man womewhat feverish, and complaining of deep-seated pain in the left iliac region. There was nothing to be seen or felt, but the pain had kept him awake the whole night. He reminded me that he had complained of a similar pain about a fortnight me that he had companied or a summar pain about a formight before, and that it had passed off after a does of opening medi-cine. I ordered his side to be fomented, and prescribed a does of castor oil. His pain, however, continued, and two days later his scrotum was so much swollen that he was relater his scrotum was so rauch swollen that he was re-ported to have "crysipelas." The swelling was, however, consequent upon inflammation of the testicle, and, bearing in mind that he had first complained of pain in the iliac region, and that this pain had followed the introduction of a large catheter through his prostate. I had no hesitation in suggesting that the whole was due to inflammation of the was deferens, followed by implication of the epiddymis, testis, tunies vaginalis, and cellular tisses testis, one as his pain con-tinued very severe. I made a free incision, let out a quantity of turbid serum from the tunica vaginalis, and then incised the inflamed testis. The testis was very much enlarged, and its inflamed testis. The testis was very much enlarged, and its turbid serum from the tunica vaginalis, and then incised the inflamed testis. The testis was very much enlarged, and its substance intensely congested and very soft; the tunica alburgina, which we had freely exposed by the incision, was stretched until it was as thin as paper, and it gaped widely as soon as it was cut. We did not find any pus in the gland most marked. The man has been quite comfortable ever since: there has been no actual ornavens of the taset's bett it will there has been no actual gangrene of the testis, but it still projects into the wound.(a)

projects into the wound.(a)

The next case that I will mention is that of an old gentleman from Bath, who consulted me yesterday morning. He had
been sent to me by his Medical attendant, on account, as he said, of inflammation of one testicle; he was using a suspender, and by its aid was still able to walk about. On examining the and up its niu was stall able to wait about. On examining the inflamed part, I found that the cellular tissue of the scrotum was not in the least involved, nor, indeed, when we came to handle it, was the body of the testis itself found to be swollen. The epididymis was enlarged and tender, all the structures of the cord were swollen, and the vas deferens especially could be easily traced into the inguinal canal. I said to him "Did not this begin by pain in the body above the groin, before the testicle swelled?" "Yos," he replied, "there was deep-seated pain for several days before there was anything to be seen."
I next inquired as to the use of catheters, and learnt that for five years past he had never voided a drop of urine excepting

Vol. 1. 1871. No. 1085.

through an instrument. He was in the habit of using a flexible eatheter, which he introduced for himself about four times in the twenty-four hours. He was 70 years of age, and on examination by the rectum I found that he had an enormous prostate. Here, then, the case was explained: rivitation to the prostatic urethra by the continued employment of instruments, inflammation of the vas deferens, which had travelled outwards through its entire length and involved the epididymis, but which had thus far not reached the body of the testis or its coverings. We must note in reference to the catheter that our patient was not in the least aware that it had irritated our patent was not in the least aware that it had irritated him; he had had no difficulty whatever in using it; his attack of inflammation of the vas deferens had existed only about ten days. Let me add another very interesting fact which his case supplied; he told me that two months ago he had had a same supposes; no total me that two months ago he had had a similar attack of deep-seated pain on the opposite side, which was not, however, ever attended by inflammation of the testicle, and which ended in the formation of an abscess, restricts, and which caused in the formation of an abscess, which presented at the root of the penis near to the external ring. From the swelling about the cord at present I should not be at all surprised if he yet has an abscess in that position on the right side.

tion on the right side.

Two or three years ago I saw, in consultation with Dr. Appleton, of Hackney, an old gentleman of nearly 80, in whom the right testich had passed into gangeries; it had been exposed by a sloughing abscess of the soft parts, and when I saw him it hung quite loose, excepting for its attachment to the cord. Having put a ligature round the ord as a presation against hemorrhage—probably, however, und necessary out the gland away. As to the cause of the general probable testis, and the abscess which attended, it can realize the same content of the cont

usuas, and the assesse which attended it, it seemed probable that they were due to prostatic irritation. Our patient was the subject of enlarged prostate, and had voided prostate calculi. I have next to mention a very important case. A dis-tinguished member of our own Profession, whilst in the enloyment of good health, became the subject of stone in the bladder. Lithotrity was practised, without ill-result, on five or six occasions, and many fragments of calculus were removed. At length, however, after what was believed to be a final sitting, length, however, after what was besieves to so a finis string, be had a very violent rigor, followed by much resting a good deal He recovered from the control of the control of the control of the distance into the country, and to take drives in his carriage. One day, after a drive, he was attacked by inflammation of the right tord and testis. I saw him for the first time about three right cord and testia. I aw him for the first time about three weeks after this wincrenes. He was then very Ill, hisble to weeks after this wincrenes. He was then very Ill, hisble to the control of the and at the end of ten days having detected fluctuation, I made and at the end of ten days naving detected meditation, in an an incision, expecting to find pus; the fluid, however, was serum only, and of this we let out about an ounce and a half from the tunior vaginalis. Again the incision was productive of most marked relief; the parts healed well, and on neither the productive of the productive of the part was th side was the testis damaged. During the next two months our patient had, however, a succession of abscesses in the abdominal wall in each iliac region. These began in each instance by deep-seated pain, great swelling, and induration, and in each case we had to out through a great thickness of tissue to evacuate the matter. I have no doubt that these abscesses to erscaute the matter. I have no doubt that these abscesses had their starting point in the inflamed va saferens. After they were all healed, our patient having continued to suffer severely throughout from vesical irritation, and being in the worst possible health, lithotomy was practized; a large abscess in the prostate itself was opened, and some sharp-edged in the grantens of calcular summer of from the bladder. I should said fragments of calcular summer of the theorems when he had more than the said was only the said that the said was the had more than the said was only the said that the said was the sai that during his illness with the abscesses, etc., he had more than once voided fragments of stone. After the lithotomy, no than once voided fragments of some. After the introduct, as more abscesso occurred, and his Profession and the public now enjoy the advantage of his complete restoration to health. The operation was performed by the distinguished lithoritist who had commenced the treatment of the case. My reason for mentioning this case in conjunction with those which have

⁽a) Subsequent to the delivery of this lecture, this patient made a perfect recovery. The wound in the scrotum closed over soundly. He has now for some months returned to his work, and is in good health. He still keeps a fexible eather in the perincal wound, but his fatulus have, I believe, all

preceded it, is because I think it affords a good example of a succession of abscesses about the vasa deferentia and testes due to prostatic irritation. I think it very probable that a small fragment was throughout impacted in the prostatic urethra, and quite certain, even if that were not the case, that fragments frequently passed temporarily into that part of the canal. The urethra was in no way blocked, for a full-sized

canal. The uretars was in no way blocked, for a full-sized instrument could always be passed.

In the last case which I have narrated to you, a very important question of diagnosis was frequently discussed during the several months that the succession of abscesses was forming. We had to ask ourselves with the utmost anxiety—Were they the result of pysmin or some blood-poison allied to it? The constitutional symptoms were quite severe enough to warrant such a suspicion; rigors were frequent, and sometimes of extreme severity. The fact that all quent, and sometimes of extreme severity. The fact that all the abscesses were in connexion with the genito-urinary apparatus, and that none were ever threatened in joints or in collular tissue at distant parts, enabled us, however, to feel confident that they were not pysemic, and it is well known that urethral irritation may cause rigors quite as severe as those of pyrmia. It may be worth while to note that we never had two abscesses in progress at the same time, and that the testis first attacked had got quite well before the other was involved.

Having just quoted a case in which irritation of the prostatic urethra from calculous fragments was the cause of inflammation of the testes, I may suitably allude to the general subject of operations for stone in connexion with this occurrence. never, in my own practice, seen orchitis follow lithority, but then I have performed lithority in but a very limited number then I have performed lithority in but a very limited number of the lithority and the lithority of the late Mr. Stanley, in which absching a case under the care of the late Mr. Stanley, in which absching a case under the care of the late Mr. Stanley, in which absching the late Mr. Stanley, in which absching the late Mr. Stanley, in which absching the late of the late Mr. Stanley, in which absching the late of the late Mr. Stanley, in which absching the late of the late Mr. Stanley, in which absching the late of the late Mr. Stanley, in which absching the late of the late of the late Mr. Stanley, in which also were the late of the structure, followed lithotrity. In three cases of my own, after lithotomy, I have known inflammation of the testis occur; two of these were in boys, and one in an old man. In each, suppuration of the tunica vaginalis occurred; but in none was there sloughing of the testis; in all the vas deferens was involved

You must not understand from this that inflammation of the testis is common after lithotomy; on the contrary, it is decidedly rare. My own proportion is, I believe, not more than one in and any own proportion is, to elever, not more train one in about forty cases, and I suspect that it is considerably in excess of the average. I cannot attribute its occurrence to any peculiarity in my mode of operating, for in all three cases I had performed the lateral operation, and only in one, that of the old man, had a tube been retained in the wound. My suspicion is that in each instance it was due to some small fragment which had been crushed off from the surface of the stone and remained impacted, possibly in the orifice of the ejaculatory duct.

(To be continued.)

ORIGINAL COMMUNICATIONS.

DRUNKENNESS AS MODIFIED BY RACE: WITH AN ANALYSIS OF THE REPORT ON DEUNEENNESS IN VARIOUS PARTS OF THE WORLD, ISSUED BY THE MASSACHU-SETTS STATE BOARD OF HEALTH,

By ROBERT DRUITT, M.R.C.P. Lond., F.R.C.S., etc.

The well-meaning and philanthropic personages who employ themselves in restraining the national scourge and disgrace of drunkenness, would do well to take a lesson from the method which Physicians employ in investigating any intractable bodily disease. They ought to get a comprehensive view of its phenomena in the most distant times and countries, to study the conditions under which it flourishes, or the reverse, and the various complications which surround it. They may then find it not a simple vice inherent in the human race, always springing up where drink is to be had, and capable of cure by some one single nostrum. On the contrary, they may discover that there are some races and soils in which it refuses to take root; and hence, instead of the absurd tectotalism, and the ravings at the "poison" alcohol, they may find that it would be more profitable to study the conditions under which the people either have no appetite for alcohol, or, if they have, can indulge it without fear of ill consequence.

The articles of the tectotal creed are by this time pretty well known by means of the numerous orators and tract-writers of that sect. It is held that alcohol is a poison simpliciter and absolutely in all forms and quantities, insomuch that it is criminal to use it as food or medicine; that it is a poison soseductive that no one can taste it without the wish to take more and more, till the craving for it becomes an overwhelming necessity; that "moderation" is impossible, or, if possible, that it is more villanous than drunkenness itself, inasmuch as it not only leads the moderate drinker himself to the pit of destruction, but operates as a baneful example to others. asserted, further, that alcohol ought to be destroyed as Dr. Cobbold would destroy tapeworms; that the whole population ought to abstain entirely, and that there is no safety in any other course. These heresies, like other ill weeds, are growing; they began with itinerant spouters by the wayside; now are creeping into churches; clergymen are found so indolent as to give over the teaching of their flocks to-teetotalers, on the ground that they themselves cannot stem intemperance by legitimate argument. The first article in the Nicene Creed is set aside on the theory that no one but the devil could have invented fermented liquors. The moral effect is that converted drunkards, instead of being ashamed of them-solves, and drinking their watery fluids abashed in silent penitence, revenge themselves for their privation by the Pharisaic doctrine that they are the true regenerators of the age, and that the moderate and sober part of the community. who thankfully use their wine and beer as good gifts from the Creator, are really more culpable than themselves, who began by creasor, are reasy more cupatou than themserves, who exact by missuing these gifts, and then turn to abuse the Given togeth, the gifts, and those who have the grace to enjoy them like reasonable beings. Moreover, the herewy is beginning to infect Physic; we have not only religious temperance, but Medical temperance publications, containing the few worn-out and superficial statements paraded ou temperance platforms.

I have, on a former occasion, pointed out the necessity of a more searching and philosophical treatment of the whole subject; and in especial, with regard to knowledge of causes and remedies, have pointed out the necessity of marking off the solitary, secret drinkers from the open, noisy, gregarious drinkers. The former are chiefly women of advanced life, bad health, and worse prospects, who have arrived at a time one neutro, and worse prespects, who have arrived as a time when possibly their past life has been unhappy, and there is little or no ground for hope in the future. Men, too, of indif-ferent health, or unsetted minds, or bad circumstances, fall notoriously into the same habit. These are cases, not for noisy preachments and moral trusiens, but for the kind, custions, earrhing diagnosis of the Physician, and such treatments as shall summor the strength, militare the prayings of weakness. as shall support the strength, mitigate the cravings of weakness and disorder, and soothe the mind. Religious consolation would be of immense service, but, unluckily, the tectotal and other clergy, whilst damning drunkards and drunkenness in the mass, forget to soothe and heal the poor broken reeds and half-extinguished vital lamps, if so we may symbolise the unfortunates who resort to this mode of oblivion of their miseries.

On the other hand, there are the open, noisy, notorious, rollicking drinkers, often forming a mass that stamps its character on the population, thronging the taverns and filling the streets. The existence of such as these shows some pecuthe streets. The existence of such as these shows some peculiarity in the race—some tendency which the politician and philosopher ought to take into account, and counteract, although they do not. Yet, as it is not the whole of the earth's population that drinks in this way, but only certain races, and as a mongest those races there are some that preserve their as a mongest those races there are some that preserve their points in which those even will worth while to reckon up the points in which those yet do not get drunk and violent different these who do. It is whole the points in which we have the points in the points in which we have the points in the points in the points in which we have the points in t points in which those who up not get urunk and violent different hose who do. It is a case, not for preaching, but for study and work. What races drink, and what do not? What differences in mental and bodily character, in climate, diet, and occupation, go along with differences in drunkenness? Are temperate races virtuous, chaste, industrious, averse to fraud, theft, violence, and bloodshed? Amongst the races who drink, does drunkenness prevail most amongst the races who dring, does drunkenness prevail most amongest these best of the poor!—amongst those who have unlimited accessed or the poor in the procuring the state of the procuring it? What difference does exposure to cold and damp, malaria, and fatigue make? Are all forms of alcoholic liquer equally prejudicial? Have the drinking classes fair plays a regards the being able to find comfort, warrath, food, and innocent amusement where there are no temptations to drink? In fact, take the drinkers and the sober classes, can you anyhow find in the surroundings of the former an excuse for drink, and can you alter them, so as to put the drinkers more on a level with the classes that can withstand drink?

I have in former communications affirmed, and affirm again, I have in former communications afterned, as ammen again, that the ordinary dries about the connexion of insantity, sick-that the ordinary dries about the connexion of insantity, sick be taken with a good deal of correction. We often hear in sermons and speeches that half the poverty, one-third the insantity, and a large proportion of crime, are due directly to intoxicating drinks. Now, if this be true (which it is not), and if it be likewise true, that so long as alcohol exists man will drink, and that, as the tectotalers assert, no one can drink moderately, but that he who tastes is on the first step of a downward course of brutalising vice, and if, as the indolent clergy assert, the Gospel is hopeless as a remedy, then the condition of the human race is bad indeed. But these things are either simply not true, or partial and unfair versions of truth. There are large races who do not drink; amongst those who do, drunkenness is confined to certain classes under specific conditions. Uncluste women drink; thieves drink; rogues, conditions. Uncluste women arms; moves arms; rogwos, arms rogwos, arms arms and brutally unclusted fellows drink; but it is not drink which made them whores, thieres, and ruffians, or that caused them to have no moral training. Drink is one kind of sensual indulgence which persons of no intellect and no morals are stated by the sensual indulgence which persons of no intellect and no morals are stated by the sensual indulgence which persons of no intellect and no morals are stated to set begin their resort to. Unchaste women especially do not begin their resort to. Unchaste women especially us not begin seen career with drink; a far stronger passion leads them first astray, and drink comes in with its fallacious comfort to stifle disgrace and remorse. True, drink will impel men of some races to crimes of violence or lust; but the first thing to blame is not the drink, but the whole social condition which shall lead a man to want drink, and to take it openly and excessively without shame. Given, a dozen drunken fellows who break each other's heads at a public-house on Sunday evening; and queer, where else could they have gone save to the publichouse for warmth, shelter, conversation, and amusement? Again, with regard to the parrot-like cry that drunkenness is the great cause of insanity, the truth is that many madmen have been drunkards; but it was not drink that disturbed the mind, but a disturbed mind which prompted the craving for drink.

These thoughts, which run rather too lengthily from my pen, are suggested by an admirable correspondence on drunkenness in the "Second Annual Report of the State Board of Health of Massechusetts," which that body has done me the honour to send me, and of which I venture to lay a short analysis before the readers of the Medical Times and Gastits. If we are ever to cure the national vice of drunkenness, it must be not by merely treating symptoms, but, as I said before, by measures based upon the most extensive induction; and the State Board of Massachusetts, of which Dr. Bowditch is Pro-State Board of Massacruserts, or when Dr. Downten of Aussident, has supplied us with very valuable material for this purpose. It was made their duty, by the Act which established the Board, to take cognisance of drunkenness amongst the other causes of disease. To this end, in 1870, they issued questions to the contraction of the contr tions to 164 competent observers in as many towns in Massachusetts, asking-" What, in your judgment, has been the effect of the use of intoxicating liquor as a beverage upon the health and lives of the people in your town, or in the region in which you practise?"

Besides this, they issued questions to the Consuls and Vice-Consuls of the United States in all parts of the world, asking: -1. What are the chief intoxicating articles used in the given —1. What are the chief intoxicating attuess used in the given place? 2. What amount of crime is produced by them, and their effect on the general health and prosperity of the people? and 3. The relative amount of intoxication in the given country

compared with that in the United States?

It is to the information contained in the replies, and the Secretary's conclusions thereon, that I wish to direct the attention of my Medical brethren, as they so completely uphold the prac-tice pursued by rational Physicians in all ages, and contravene the dogmata of the teetotalers.

The answers given by the 164 Physicians of Massachusetts exhibit much diversity, and are thus summed up :-

"Very destructive to life and health Injurious in a greater or less degree Public health not affected by use in their towns . The people of their towns very temperate . Intoxicating drinks not used in their towns The effect is bad upon foreigners (i.e. Irish) in their towns, but not upon natives . Useful in the decline of life . Use promotes longevity Indefinite replies . . .

The discordant results of different men's experience is seen in such extracts as these. For example, with reference to the effect of alcoholic drinks on nutrition, A says :- "I am positive that drunkards die from consumption

On the other hand, hear B :-

Un the other hand, her? H:—
"I have very few cases of sickness which I am able to trace
to the use of intoxicating liquors. Many aged persons are
within the range of my observation who have always used
liquors as a beverage without apparent injury. I have the
impression that in this region persons who habitually use
spirits are less subject to lung diseases than are the average of total abstainers.

And C .-

"I have had a large practice among the Germans for twenty years, and my observation has been that they are remarkably free from consumption and chronic diseases. I have attributed it to their free use of lager-beer. I believe that the moderate use of the lighter drinks is beneficial."

Another Practitioner avers that alcoholic beverages and pork

are the cause of cancer.

So far as concerns intemperance or excess, all sensible people, at all times and places, have agreed in condemning it; so I need not quote the Massachusetts Physicians when they so I need not quote the massic nuestes reparts the habitual use in moderation, they show nothing against it; whilst I may quote the following opinions as showing one side of the question little regarded by testotalers:—

"Tobacco is doing oven more than liquor to undermine the constitutions of the men of this region." Another says, constitutions of the men of this region." Another says,
"Tobace is now doing more to shorten life than liquor. The
third says that liquors are "unfavourable to health. The
same may be said of strong fea and erfect. A fourth says," Il
have observed no peculiar effects on health in this town from the use of intoxicating drinks, but the habit of opium-cating

and the use of preparations of opium demands attention." But I must pass on to the more immediate subject of my paper—the modifications of drunkenness amongst different races in different parts of the world, as shown by the replies addressed to the Massachusetts Board. For convenionce sake I present the summary facts under various headings as I

jotted them down for my own private use.

As a preliminary, we may arrange the various populations, concerning whom the correspondents of the Massachusetts Board sent reports, under four categories in descending scale, beginning with-1, those who abstain; 2, those who drink. but in such moderation that drunkenness forms no feature of the place or people; 3, populations amongst whom drunkenness is pretty common, but of an innecent, jolly, and not criminal character; and, 4, populations disgraced by drunkenness, accompanied with brutality and crime.

1. Under the total abstinence head we may arrange the

1. Under the total abstinence head we may arrange the Mussulman populations of Contantineple, Alexandria, and Zauzibar, and the people of Heytl. Admin. John Miller and Market and Time population of Contantineple, Alexandria, and Florence, Athens. Cadix, Teneriffe, Funchal, Fayal, Malta, Beirtt, Genew, Vienna, Brenn, Leipide, Nicasagua, Pernambuco, St. Juan, Parn, Trinidad, Lima, and Honolulu. 3. People are shown to daink to freely, but innocently and without violence, by the answers from Trinice. Dead, Berne, Milloin and Santa Cruz.

Hiojo, and Santa Cruz.

4. In the lowest category rank the answers from Liverpool, Manchester, Dublin, Edinburgh, Rotterdam, Utrecht, Odessa, Toronto, Cologne, Colembo.

So that, highest in the scale of temperance come the Turks and Arabs; next, the Berians, Levantines, Greeks, and Lattin races; lower down, the Japanese, Scandinavians, Belgians, and the Irish Celt; lowest of all, the so-called Anglo-Saxon of either continent.

When we come to analyse the conditions under which these people live, we find that, with temperate races, the greatest abundance of intoxicating liquor leads to no excess. Restraining

Thus, Consul Tuckerman writes from Athens, and Consul Keef from Pirreus :-

"The chief intoxicating article is wine, the native growth of the country. It is of pure grape-juice, fermented naturally in barrels, without any artificial aid beyond the addition to the fresh must when put in the barrels, of about 10 per cent. of common resin gathered from the bark of the pine-tree. This wine is very cheap.

"Crime cannot be attributed to this cause. Not more than one-sixteenth of the crime committed can be said to arise from intoxication. The Greeks are eminently a temperate people,

and, excepting on high feasts and holidays, a drunken man is and, excepting on high feases and holidays, a drunken man is rarely seen. My own observation is not a fair text, as I am not frequently in quariers of the city where tavern branch cocur, yet it is worthy of remark that, during two years' resi-dence in Greece, I have not seen as many as two Greeks in the condition called 'dead drunk'; while it is a not uncommon sight to see sailors from foreign ships reeling through the ets in various stages of intoxication.

"As to the Greek wines, probably they are purer than those any other country in Europe. . . On the high plain of any other country in Europe. . . On the high plain of Arcadia, and in the mild valley of Acarnania—in fact, in all of western Hellas-wine with bread and olives and oil makes or western riculas—wine with oreso and onves and ou makes a chief article of food; belies, even, drink it. It is the most abundant of all products, and the easiest procured. In Acarania you will often find wine when you would hardly find bread.

During my residence in Greece, and my travels in it, I have scarcely seen half-a-dozen drunken men."

Consul Erni writes from Basle-

"Wine grows very abundantly, and costs retail from ten to twenty-five cents a pint only, a great deal is consumed even by poor persons and day-labourers (wood-cutters receive a bottle a day, servants from two to three bottles a week in each family).

Basic is one of the most orderly, quiet, and Hamily). Basic is one of the most orderly, quire, saus moral cities in Europe. Drinking is here connected with amusements, conversations, music, etc., indoors, and out-doors; rarely leading to fighting, if ever to murder; does not take place at bars, or secretly."

Consul Horatio Fox writes from Cuba-

"Aguardiente—i.e. muse allowates—do freely as a drink by the poorer class of whitemond he blacks, yet I must in justice add that, notwithstanding its liberal use, it is very seldom that its drank to excess—so much so, that it is an extremely rare thing to see a person intoxicated in the streets.

It is a fact which havione attracted my attention, that It is a fact which hasoften attracted my attention, that in a country where intoxicating drinks are to be had so cheaply as to be within the reach of everyone, and, I may say, in such general use, that so very few cases of drunkenness are seen.

In this town, where I have resided for thirty years, the amount of crime proceeding directly from the use of intoxicating drinks is so small, that I can sately say that it does not amount to gree roem! of the total of crimes from all causes."

Consul Bond writes from Para, Brazil-

"The chief intoxicating article used in Brazil is 'cachaça,' "The chief intoxicating article used in Brazii is "cannacy, crum made from the sugar cane). Habitual intoxication is rare in Brazii, and limited to the lowest class of the population. Even among these it cannot be said to be prevalent.

The consumption of 'cachaça' is large; there is a fall of the consumption of 'cachaça' is large; there is a fall of the consumption of 'cachaça' is large; there is a fall of the consumption of 'cachaça' is large; there is a fall of the consumption of

There is an opinion prevalent—at least, we see traces of it in this week's Saturday Review—that intoxicating liquors are in this week's Saturday Revise—that intoxicating liquors are all much alike as regards their worst or maddening qualities, and that no greater crime is due to sound wholesome liquor than to that which is badly made and subsequently adulterated. But, cortes, English experience shows that the maximum of brutality arises from heavy, coarse, hastilly-herwed "brewer"s beer," made with hope of low quality, containing, perhaps, some principle allied to that of the nearly-silled plant, Indian hemp. French writers show that each kind of liquor produces a interfaction according to itself and that of all the house. an intoxication peculiar to itself, and that, of all, the heavy, an intorication peculiar to itself, and that, of all, the heavy, medicated liqueurs of which sheathful is the type are the worst, the state of the s

Mr. Horace Rubler, writing from Berne, says-

all. Lorses adores, writing from Berne, says—
"The evil effects of intemperance here are chiefly visible in that class of the population addicted to the drinking of schapps. This liquor is very cheap, and is the principal estimulant used by the poorer classes. Its manufacture and use have greatly increased of late yets. . . . The green's impression among those with whom I have conversed on this that the best method of introductive are wholesome, and that the best method of introductive are wholesome. that the best method of introducing a temperance reform would be to bring wine or beer within the reach of the masses of the people, and discourage the use of stronger drinks."

Consul Hanson, from Bremen, writes-

"No alcoholic spirits are used in Bremer. Wines and beer are the favourite beverages, and are used and consumed in

almost unlimited quantities. These are so cheap as to come within the means of all classes, more beer, however, being consumed by the middle and lower classes than any other. My observation has led me to conclude that no evil grows out of the use of these.'

The Vice-Consul at Frankfort-on-the-Maine says-

"Twenty years ago the city and country were full of dramshops, which, owing to the improvement of the beer and the introduction of coffee amongst the labouring class, have nearly introduction of corne amongst too incoluring class, size twenty, years ago. By the improvements in making better beer, things have been changed. The drunkards have disappeared. A great deal less of eider and wine is consumed. The people now generally drink beer. Many drink to excess even now. Intoxication has decreased. Intoxication has even now. Intoxication has decreased. . . . Intoxica-tion continually occurs, not habitual, and not causing crime; but it is more accidental, from over-hilarity in drinking. As a general fact in Germany, in those parts where wine grows and where the chief beverage is beer, there intoxica-tion is less and has been decreasing. The contrary is the case tion is less and has been decreasing. The contrary is the case where there are large distilleries and more ardent spirits are

Mr. Marsh, the Consul at Florence, says-

ast. Marsa, the Consul at Florence, says—
"Intemperance is not so prevalent in Italy as to rank among
the great social evils which force themselves upon the attention
of the criminal legislator, the public economist, and the
philanthropist.

I am inclined to the opinion that
an abundant supply of cheap light wines would tend in the
long run to diminish rather than increase intemperance in
the United States."

Mr. J. P. Dabney reports from the Azores-

"Until the almost entire destruction of the vines in 1855, comparatively little spirit was consumed in these islands, the common wine of the country, which was freely used, costing common wand of the country, which was fresh used, cosmity from eight to ten cents per gallon. At present, wine is quite expensive, and rum has taken its place, but I cannot say that there has been any marked increase of intoxication. These people, like all the Latin races, I believe, are far more temperate than the Anglo-Saxons."

Similar is the evidence given by Mr. W. H. Dabney, at Teneriffe-

"Up to 1845 this was eminently a wine-producing country, this island alone having produced as much as 25,000 pipes. this island alone having produced as much as 25,000 pipes. The oldium having destroyed the vines about that time, the drinks substituted have been the rum of West Indies, and gin wine-producing countries intoxication is rare, and this was the case here while only wine was drank; since then the vice has increased, but not to any considerable degree.

I don't know where you can find a soberer class of people than the peasants of these islands.

Mr. Hovey, the American Minister at Lima, says

"Temperance societies are unknown here, and all drink who have the means to pay for it. My impressions are, that the use of light where and "chicha" in this climate add to the cause of temperance and health, by banishing the stronger alcoholic beverages and giving tone to the stomach and circulation of the blood. Life here seems to be torpid, and stimulants

I may refer, in passing, as furnishing the same kind of evidence, to a letter from Professor Christison, who says that whisky is the only article of drink known to the working-man in Scotland; that beer is used at meals by the better classes; but that-

"Scottish workmen unfortunately use it extremely little in that way; but if they take any stimulant distribully, it is whisky; and hence the passage to excess is too easy." Equally pernicious is said to be the prevalent use of spirits in the Netherlands.

I might quote largely the evidence as to the innocent, hilarious character of the intoxication seen at Trieste, Basle, Copenhagen, and Elsinore, Frankfort, and Japan, depending on the characters of the respective races; but I hasten on to the proposition that the tectotal dogma which regards drunkenness as-the only vice, or as the master vice, and the cause everywhere of the greatest quantity of crime, is absurd in itself, and contradicted by testimony. So mixed and complex is human, nature, that it is in vain to seek one straight road to perfect virtue, or to imagine that, by weeding out one vice, we can get rid of all.

For instance, a race may drink much, and yet exhibit a high

moral conduct; or it may be as temperate as Nazarites, and yet may be sensual, thievish, murderous in cold blood, as incorrigibly idle. Consul Sheats writes from Elsinore—

"Denmark has a population of about 1,600,000 inhabitants, "Demark has a population of about 1,600,000 inhestrants, which will give a consumption of about four and a half gallons which will give a consumption of about four and a half gallons and the same of the same

Mr. Yeaman, the American Minister, writes from Conen-

"While the average consumption has seemed to increase largely, the number of cases of manifest and public intoxication

largely, the number of cases of manifest and public intextication has greatly decreased, which he attilutes partly to improved manners, merals, and education, bet mainly to improvement in the quantity and quality of food the people use.

"Here is a people oridently more prosperous than formerly, evidently using more brandly than formerly, and evidently less given to intoxication than formerly. Of course, all will admit that the diministration of drankenness is an increased the prosperity of the quality of brandy used has increased the prosperity of the quality of brandy used has increased the prosperity of the people here appears or very soles, that I have been simply accombined to find how much brandy they really use."

The Vice-Consul Johnson, writing from Beirut, says of the few cases of assassination that occasionally occur that they are "never traced to the use of intoxicating liquor." He praises the temperance of the Levantines, but laments their indolence. and seems to intimate what Mr. Bowditch says of the Panama and seems to intimate what Mr. Bowditch says of the ranama and Darien Indians, that "the less the civilisation the less the intoxication." Mr. Duffle, the United States Consul at Cadiz, says of the Spaniards that they are very temperate, and that if they use a little liquor it makes them cheerful or sleepy. He

adds:—
"Now there are many robberies committed in the mountains,
but the robberies and crimes which may be committed by
brigands are committed in cool blood, as never or very seldom have they been found with any intoxicating liquid even in their

The evidence from Dublin is given by Mr. Russell, a Permissive Bill advocate, and is full of all the common platitudes; but it contains this frequent sentence-" With the exception of the crime known as agrarian, near the whole crime of Ireland is due to drink." The evidence from Hayti shows that drunkenthat source does not exist; but the country is in perpetual commotion, and "morals and sexual intercourse are unrestrained."

Thus we see that a temperate people may be idle and sensual,

and murder in cold blood.

I have now finished the abstract from the very valuable Report which Dr. Bowditch and his fellow-workers have given Report which Dr. Bowditch and his tenow-wormers much the world. The material they give us differs widely from the world. The material they give us differs widely from the world. I will venture to sum up the conclusions which I think may be drawn.

venture to sum up the conclusions which I think may be drawn. Experience shows that it is natter of public policy that the people be supplied with light and wholesome drinks in the greatest abundance. Water is not well suited to our climate, and in towns the water from the pipes is often hot, vapid, and mauseating. Auyone is a public benefactor who invents and sells cheap lemonate gingeraid, or animina trinks: coffer the Great state of the property of the property of the contract of the property of the property of the contract of the property of property property of property of property of property of property of property of property uty, so should tea, although this is too often a source of spiritduty, so should tea, atthough this is too often a source of spirit-drinking; but, above all, pure light beer and wine ought to be obtainable, instead of the heavy and intoxicating mixture of the public-houses. What a boon a light wholesome beer would be in the Scottish cities!

The retail of spirits over the counter should be repressed by the police and Excise as much as possible. Spirits do the mischief.

mention community has the right, so long as a poor-law suirt, of demanding the suppression of drink-shops which can be shown to be aids and accomplices in bringing the people to poverly and to be supported by the poor-rakes. Violence, as a consequence of drink, is, as Dr. Bowditch observes, almost confined to the Kngitsh and Americans. It is

also confined to the lowest classes, whom education has not shown the wrong and folly of drinking. The opinion of their own class stamps drinking with no disgrace; and very often drink is the only amusement, the only way of stirring their brains, that they are acquainted with, or can get at. It is too often the only physical comfort obtainable, as respite from hard work, bod weather, ille tooled food, and an unhealthy home. The problem is—How far is it possible to supply, to the Anglo-Saxon who drinks brutally, the state of body and mind of the man who temperately drinks? This will never be done by an oratory which condemns all drinks will never be done by an oratory which condemns all drinks

as inherently poisonous.

The case of the solitary drinkers is, as I have said, one for Medical treatment.

CASE OF SUICIDE BY CARBOLIC ACID.

JOINT REPORT By W. E. JEFFREYS, M.R.C.S.; and JOHN HAINWORTH, F.R.C.S.

Ox April 1, 1871, at 10.40 a.m., Mr. Jeffreys was called to see H. C., aged 65, a retired clerk, who was discharged from Bethlem Hospital five months ago after a residence there for Detinent Respital rave months ago after a resusence there sor five months. His housekeeper stated that she had left him at about 10.20 to go to the butcher's, and on her return found him on his bed, insensible and "soorting." There was astrong smell of carbolic acid in the room, and a bottle containing some on the drawers. This bottle had been kept in the kitchen cupboard for twelve months for cleansing purposes. She went at once for Mr. Jeffreys, who was with him in a few minutes. He was found insensible, his mouth and throat filled with mucus, He was found insensitie, his mouth and throat filled with mucus, which was runored by slightly turning him on his side. Three were soutracted; pulse laboured, between 40 and 60. The mouth and throat regular filled again, and the viseld mucus was repeatedly removed. Mr. Hainworth was instantly sent for, and speedily artived, but life was nearly extinct. Respiration stopped from time to time, and was several times renewed, though the heart's pulsations were inaudible. At 11.20 he expired—about fifty minutes, as nearly as can be ascertained,

after taking the poison.

Post-mortem Examination, Trenty-eight Hours after Death.—
The odour of carbolic acid filled the room. The general aspect Post-moriem Examination, Treaty-sight Hours after Dath.—
The odour of carbolic acid filled the room. The general aspect
was that of a person killed by suffication. The general aspect
was that of a person killed by suffication. Brownish lines
from each angle of the mouth and on the chin. The tongrue,
back part of pharyrax, the laryrax, traches, cosophagus, and
pleared the count of the part of the chost. Much fluid
blood, of a deep-black colour, flowed from every divided vein.
No coagula were found in any part, save in the lungs, where
small nodules of black, firm coagula were interspersed. From
the lungs, when incised, issued an abundant frothy mucus.
The epithelium of the tongrue, epiglottis, rima glottidis,
pharyrax, and cosophagus, was uniformly white, firm, and
corrugated, hard and rough to the touch. The stomach contained four ounces of thick, turbid fluid, mainly the products
of digresion, smelling strongly of carbolic scid. The other
caustic acid, was shrivelled up into little granular masses, easily
scraped off with a knife. The rugs of the stomach were
unusually prominent and hard. The pylorus appeared to
form the boundary beyond which the direct action of the acid
and not extended. The laryrax, traches, and bronch were
literally filled with transparent mucus streaked with blood.
The pericardium in front over the base of the right rentricle The porteardism in front over the base of the right ventricle was covered by a white patch, an inch and a half in diameter, easily peoled off in the form of nelastic membrane. The heart was flabby, and alightly fatty; the right side empty, the left containing a little fluid blood. The liver, which smelt distinctly of the acid, was healtly. The kidneys were of full urine and carbolic acid. All the viscers were congested, and of a darkened colour. The cranium was found very dense in structure, the diplot being almost filled up with solid bone; in some parts thick, in others very thin, but both symmetrically. The cavity of the arachaold contained about ten drehms of many parts. The white substance was firm, but easily torn in the direction of the fibres. On the application of the stor of the British Pharmacoporia to the contents of the stomach, The pericardium in front over the base of the right ventricle test of the British Pharmacoporia to the contents of the stomach, the characteristic reaction of carbolic acid was observed. The housekeeper estimated the quantity taken as between one and two tablespoonfuls—i.e., from half an ounce to an

From the details given, it appears that when fluid com-mercial carbolic acid is swallowed, the following effects ensus:

-1. All the parts over which the scid flows are whitened and hardened by the superficial canterisation of the epidermis and epithelium. 2. That longer contact—as, e, e,, in the stomach—causes, in addition, corrugation of the epithelium, breaking it np into small particles. 3. That the canterisation of an extensive secreting surface of one set of organs supplied by the par vagum, either so irritates or paralyses the nerve, that another organ, the lung, supplied by the same nerve, pour forth its secretions in great abundance, filling up the air-cells and tubes, preventing the aeration of the blood, and thus may cause death by apneas in less than an hour.

SURGERY IN INDIA.

By A. S. G. JAYAKAR, M.R.C.S.E., etc.

Case 1 .- A Large Rapidly-growing Octeo-cephaloma in connexion with the Head of the Fibula-Amputation of the Thigh-

F., a married woman, aged about 30, was admitted into Hut-teesingh's Hospital, Ahmedabad, on August 15, 1870, with a very large ulcerating malignant growth, situated more on the posterior aspect of the left leg than the anterior. It commenced at the lower angle of the popliteal space, and descended menced at the lower angle of the popurest space, and descended downwards in rather a sloping manner to within an inch of the ankle. Anteriorly it presented a hard appearance, but posteriorly it had ulcerated, and presented a fungoid look. Circumference of the tumour at its greatest hreadth, twenty-six inches; length, nine inches. Left foot ordematous. According to her friends' statement, the disease commenced

only ten months before her admission into the Hospital. only ten months before her admission into the Hospital. It presented itself first as a small swelling, situated just an inch or an inch and a half below the popliteal space, and it remained stationary till within three months from her admission, when it commenced to grow very rapidly. The patient was a cachectic, anomio-looking person.

cachecute, anomic-notating person.

On August 20, antero-posterior flaps having been made, amputation of the left thigh was performed by sawing off the bone an inch and a half above the condyles. The whole tumour, together with the foot, weighed eleven pounds and a half. On making a section, the tumour was discovered to be in connexion with the head of the fibula. It presented to the connexion with the head of the fibula. It presented to the naked eye, on section, an encephaloid and osseous appearance. Under the microscope, there were numerous rapidly growing encephaloid cells, minute spicula of bone, and granulation corpuscles.

After the operation, the patient progressed favourably, excepting an exfoliation of bone from necrosis, which was removed on November 19. She was discharged from the Hospital on December 2, with the stump entirely healed and her

general health greatly improved.

Remarks.—Tumours of the head of the fibula are very uncommon—at all events, they are much less common than those in connexion with the head of the tibia. Certainly it cannot be accounted for on any pathological ground, unless it be the large size of the head of the tibia and the importance of the bone altogether in the mechanism of walking. Probably the most striking feature in this case was the tendency in the tumour to such a rapid growth as to measure nearly twenty-six inches in circumference within three months.

Case 2 .- Chronic Synovitis-Hydrarthrosis of the Knee-Tapping-Eapid Recovery.

S. M. was admitted into Hutteesingh's Hospital on October 29, 1870, with a chronic, comparatively painless swelling of the left knee, which was more prominent in the popliteal space, where it had assumed the shape of a soft fluctuating tumour. One or two small enlarged glands were also felt in the popliteal space. On the internal and anterior aspects of the populated space. On the internal and anterior aspects of the joint there was also some amount of swelling, but the ex-ternal aspect was perfectly free from it. The patella was felt distinctly floating about in the intercondyloid space. No pulsation or bruit in the popliteal space. On puncturing the different swellings, thick synovial fluid escaped.

According to the patient's statement, the disease commenced

twelve months ago in the popliteal space, apparently without any local or constitutional cause. He was a weakly, middleaged man, with a scrofulous taint about him. No history of syphilis or rheumatism. He could not bend his knee nor walk without pain, even with the aid of a stick. Messurement round the diseased knee, 164 inches; round the healthy one.

131 inches.

He was for some time treated with cod-liver oil and altera-

tives, with the object of improving his constitution.

November 14, the joint was tapped on its inner aspect, after the skin had been drawn to one side for making a valvular puncture, and fifteen ounces of thick synovial fluid, of the specific gravity of 1020, were removed. Collodiou was applied to the wound, and emplast. hydrarg. c. ammoniaco to the joint. After the operation, the measurement round the joint was found to be thirteen inches and a half, same as in the healthy towns to be curried inches and a nair, same as in the featiny limb. The patient rapidly improved after the operation, and been discovered, the joint was again tapped, and thirteen ounces and a half of full emored. The second operation was followed by a rapid and complete cure, the patient leaving the Hospital on December 7, being at the time able to walk and

run about easily.

Remarks.—The above case fairly illustrates the beneficial effects of tapping in cases of advanced hydrarthrosis. No fluid of any kind, or any medicinal agent, was injected into the joint; yet the pressure and constitutional treatment fol-lowed were found to be quite sufficient to give a healthy tone to the already extensively damaged synovial membrane.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

THE WESTMINSTER HOSPITAL.

Mr. Francis Mason has written to correct an erroneous impression conveyed by our report of the operations performed at this Hospital last week. The "stretcher," to which we referred as being used to convey patients from the theatre, is very rarely employed for this purpose, the more convenient canvas cloth with poles and cross-bars being in ordinary use, although it happened not to be brought out on that occasion.

ROYAL INFIRMARY, EDINBURGH.

CASE OF UTERINE HÆMATOCELE. (Under the care of Dr. MATTHEWS DUNCAN.) [Reported by Dr. J. R. HARDIE.]

H. C., AGED 39, is a widow, and has had no children. She was admitted to Ward 16, under Dr. Matthews Duncan's care, on February 16, complaining of pain and swelling in the lower part of her belly, and of pain at the base of the sacrum. About a fornight before admission, after being exposed to the inflata fortnight before summeson, surer owing exposes, or sermina-ence of cold and damp during menstraidne, she caught a severe cold, which confined her to bed for some days. Her days only, her period began a fortnight ago; it lasted for three days only, her previous periods ending after an illness of a week's duration. On the day following this abrupt disappearweek's auration. On the day to lowing this abrupt disappear-ance of the last mentrulal flow, she noticed a swelling in her belly, at its lower part, which was hard and painful. The size and hardness of, and the degree of pain felt in, the tumour by the patient were increased next day. Her monthly periods

had been previously regular.

On inspection, the belly is observed to be somewhat prominent, but presenting to the hand a natural feeling, except on the right side inferiorly, where a mass of hardness is felt, which rises as high as half way to the umbilicus. There is no particular tenderness or sensitiveness on touching this, and there is resonance everywhere over it. On examination per vaginam, the cervix is found to be nearly in its natural situation, uterus fixed. The pelvis is not occupied by the tumour, but in the plane of the brim there is felt fulness, and at the right side

The tumour above described gradually diminished in size, and on an examination being made three weeks after admission, a trace of it only could be detected. Remarks.—It is almost inconceivable that a disease like the

one at present under consideration, which must have existed as iong as woman herself, should have been recognised and described for the first time within the last twenty years. Long after its description, however, ignorance as to the nature of uterine hematocele prevailed in this country, and it is only recently that it has become at all widely known. One might ask-What did our predecessors make of such cases? They

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The Color

India

were, in all likelihood, mistaken by them for ovarian dropsies, fibroids of the uterus, etc., and their subsequent rapid absorp-tion and disappearance were probably attributed to the potent deobstruent qualities of certain drugs, or cited as instances of the spontaneous cure of these diseases. An intimate connexion between menstruation and the advent of a uterine hæmatocele is, in many cases, to be observed. On studying the history of the case before us, this point is well illustrated. The woman C, instead of remaining poorly for a week, as was her wont, menstruated for three days only, and it was, she tells us, on the day is the contract of the contract the day after the cessation of her menses that she first noticed the swelling in her belly. This fact is of importance, and holds good in the majority of cases of this nature. Another point of importance with regard to this discase is suggested by the discussion of the history of a case—namely, the origin of the blood which goes to form the hematocele. From whence does this blood proceed? The most common source is the mucous membrane of the body of the uterus, the place from which bleeding, in most cases of hemorrhage in with the internal genital organs, originates. Doubtless, other sources exist, but this is the commonest one. The blood, issuing from the uterus through the Fallopian tube, discharges these fine the cavity of the perioneum; there it excites some degree of perimetritis, which also produces adhesions, which contribute to enclose it. The site of a tumour thus formed must be of necessity within the peritoneum. Post-morten dissections of cases fully corroborate this statement. The disgnows of uterine harmatocele is chiefly dependent on a consi-deration of the previous and subsequent history of the case. Its advent is characterised by suddenness, and, as has been already shown, is closely connected in many examples with the menstrual history of the patient. When the blood is poured out in large quantity, symptoms of loss of blood are present. Pain is not a constant phenomenon, but exists more or less in many cases, and is a result of the perimetritis which follows the effusion of blood into the cavity of the peritoneum. It is a remarkable feature of this disease that the tumour which forms in the abdomen often disappears so rapidly, that a swelling which was originally of large size is reduced in a few weeks to comparatively small dimensions, and, in a short time, all that can be detected is the remains of the perimetritis. The diseases with which it is most liable to be confounded are perimetritis and perimetric abscess, and, unless the case is a well-marked one, the differential diagnosis is not a simple matter. A consideration of the history of the commencement of the disease, and of its subsequent disappearance, will, in most instances, suffice to distinguish them from one another.

CLERGY AND DOCTORS—WHAT A CONTRAST:—At the Easter vestry, held at Kigngton-orn-Branes, on Tuesday, a question was asked by the ratepayers as to the refusal of elergymen to read the burial service over pupers. It appears, from the explanation given, that a woman, with two children, were attacked with the small-pox. The children were taken into the workhouse, and a woman was sent from there to attend their mother, who ultimately died. The attendant became frightened, and ran away, and the body was left in the house for two days, until it had go into a fearful state. The order for two days, until it had go into a fearful state. The order to the cemetery, the Rev. A. Cornford, who generally officiated, to the cemetery, the Rev. A. Cornford, who generally officiated to the cemetery, the Rev. A. Cornford, who generally officiated hat seems of the hour. The Doctor certified that the corpse was in such a fearful state that it must be buried at once. The coffin was lowered into the grave, and partially covered with earth. The Rev. A. Cornford was again sent for the next morning, but refused to attend, consequently, the woman was morning, but refused to attend; consequently, the woman was for the contraction of the cont

HOUSING OF THE POPILATION OF LIVERPOOL—III a pamphle by Dr. Trench, the Medical Officer of Health, and the Rev Churles Beard, it is stated as the result of a partial investigation by the Health Committee of that town that a third of the entire population live in houses let off in rooms to distinct families; 8600 of these are actually registered, and subjected to periodical inspection; and it is calculated that there are 17,000 more which ought to be ranked in the same category. The census of 1861 showed that there were 443,938 persons distributed amongst 65,781 houses, giving an average of 67,

persons for each house.

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Medical Times and Gazette.

SATURDAY, APRIL 15, 1871.

THE SMALL-POX EPIDEMIC.

The registered mortality from small-pox showed an increase last week both in London and Liverpool. In London the total number of deaths registered was 214, or 22 above that in the previous week. This is another instance of the apparent effect of temperature, since three weeks before—annely, in the week ending March 18—the mean temperature of the air fell nearly 5°. The 16th, 16th, and 17th were particularly cold days, and snow fell on two of them. The Registrar-General remarks upon the stationary character of the epidemic for some weeks past, but when we have regard to the distribution of the disease has undergone in that period a considerable change. The following table, compiled from the weekly returns, corrected for Hospital deaths, shows we fact distinctly:—

Theatha in Thisteleta

	West.	North.	Central.	East.	South.
Population(18	61) 458,125	618,210	383,321	571,158	773,17
Week ending-	-				
Jan. 21 .	. 40	30	17	72	21
, 28 .	. 21	25	20	55	36
Feb. 4 .	. 41	36	22	65	3:
,, 11 .	. 45	39	14	80	33
, 18 .	. 41	60	20	6.5	4:
, 25 .	. 28	45	20	75	55
Mar. 4 .	. 41	39	14	63	56
,, 11 .	. 24	54	19	42	51
, 18 .	. 23	37	11	61	53
, 25 .	. 37	49	18	44	57
April 1 .	. 17	60	17	61	57
	10	***	1.0	5.5	74

Nino weeks ago the mortality from small-pox was at its highest in the Eastern districts, which furnished 80 deaths, against 32 in the South districts, although the population fint of the former was 200,000 less. Taking the population fint of account, the disease appeared to be only a little more prevalent in the South than in the Central parts of London, and less prevalent than in the North and West districts. Since that time the epidemic has gradually declined in the East, and considerably in the West; it has increased in the North, and very remarkably in the South of London. Now it is the South districts which are furnishing the largest number of deaths, and, for their population, they are about as heavily burthened as the Eastern districts. The increase in the number of fresh cases in Lambeth, Clapham, St. George-the-Martyr, and Plunstead, as indicated by the Health Officer's return for last week.

is evidence in the same direction, and serves to show that probably the epidemic has not yet attained its height south of the Thames.

THE SMALL-POX HOSPITALS AT STOCKWELL.

In their selection of a site for their Small-pox and Fever Hospitals in the south-west of London, the District Asylum Board have been more fortunate than at Homerton. These also are permanent Hospitals, and are erected upon a space of 71 acres of land, nearly free from neighbouring buildings on all sides. Indeed, from the end windows of the Fever Hospital wards, and from the side windows of two of the Small-pox Hospital wards there is a pleasant view over grounds laid out as park and gardens which is quite refreshing. How long it will continue is another question, with the present rage for building on all available spaces about London. The soil is gravel, and the elevation good. Of the two buildings, which are under separate administration, the Small-pox Hospital has devoted to it the smaller share of the land, and between it and the Fever Hospital buildings is an old family mansion, which has been left standing, and is given over as a residence for Dr. Barbour, the Medical Superintendent of the Fever Hospital.

The plan of the Small-pox Hospital may be thus described :-Facing the east there is a long block of administrative buildings, immediately behind which, but separate from it, is a square block containing the kitchen and other domestic offices, which communicates on its western side with a corridor leading north and south to the terminal pavilions. This corridor is reached from the administrative block by a covered way. On the other side of the corridor, and separate from the rest of the building, are the laundry, disinfecting chambers, etc. These are again approached by a covered way, and are separated from the recreation-grounds on either side by a high wall. The arrangement is good, inasmuch as, in an institution of this kind, everything which obviates continuity of buildings, while providing sufficient shelter, is to be reckoned as an advantage. The central part of the corridor, corresponding and communicating with the domestic block, can be shut off from the rest of the corridor by glass doors. The corridor on the one side leads to the male wards; that on the other to the female wards. The arrangements are the same on the two sides. The reception ward, provided with a bath, is built out from the eastern side of the corridor, with which it communicates, as also with the roadway, by an opposite door; and on either side of the corridor other small rooms are built out, which are destined to serve as special or separation wards. At the extremity of the corridor is a wide space or hall, from which a staircase passes up to the upper wards, and from which the lower wards of the two pavilions, passing east and west at right angles to the corridor, are entered. Built out again to the north, and entered from the hall, is a special ward, now need as a children's ward. At the entrance of each of the wards are the nurses' room and scullery. The wards are spacious and lofty, well lit by the opposite side windows and a wide window at the end, at the upper part of which is a ventilating glass hopper, opening by a flap at the top. The warming is effected by open double fireplaces in the central line of the ward. The flues from these pass along a shaft to the reof; which, being rounded, and not square as in the other Hospitals, has a light and airy appearance, which sids to the cheerfulness of the apartments. The closets and lavatory are built out from the distal corners of the wards, and are is parately and well ventilated. Beside the windows, other supplemental means of ventilation are provided by large oblong protested apertures between the beds communicating with the outer atmosphere, and at a little more than a foot from the floor. Each ward has a cubic capacity of 24,000 feet, and contains fourteen beds. The walls of the wards are covered with Parian cement, but the corridors are of bare brick. There is a lift to communicate with the upper wards, a shoot for dust, and another for foul linen, which can be removed from the

outside of the building without being carried through the corridor. The Hospital is constructed to accommodate patients, but by using the special wards as many as 138 have been treated at one time. Mr. McCann, the Medical Superintendent, does not separate his convalencents from the senticeases. The nursing arrangements are as follows:—Each side of the building is under the superintendence of a day head nurse, and a night head nurse, who have thus charge of two adjoining pavillous, or of four wards, together with the very adjoining pavillous, or of four wards, together with the very awards on their side. Under them there is a day and a night nurse for each of the special wards. This arrangement seems well adapted to the construction of the building. The Hospital was opened on January 31.

The Fever Hospital was opened on March 6, and is now entirely occupied by small-pox patients. It is much larger than the Small-pox Hospital, and in its general plan is somewhat similar to the Fever Hospital at Homerton. The administrative block again faces the east, and contains the board-room, the apartments of the steward, matron, assistant Medical officer, and dormitories. Parallel with this is a long corridor, 400 feet in length, running north and south, very completely lighted and ventilated, from which the pavilions are entered. Crossing this, in the centre, is another corridor, which communicates on the east with dispensary, store-rooms, and the administrative block, and on the west with the domestic offices, kitchen, scullery, nurses' dining-hall, etc. Behind the central block of domestic offices, and separate from the rest of the building, are the laundry, disinfecting chamber, etc. Altogether, there are four pavilions, two on each side, passing westward from the long corridor. Each has an upper and a lower ward, the former being devoted to convalescents, and the latter to the acute cases. The walls throughout the wards, passages, and corridors are covered with Parian cement, and the whole building is warmed by hot water, the pipes running round the wards in such a manner that the air, entering from the outside by the ventilating openings near the floor, is warmed in its passage. There are, however, the same sort of open fireplaces as are provided in the other Hospitals. The windows are constructed in the same way as in the Small-pox Hospital. Two lifts, the one for beds, the other for coals, are provided for each pavilion, with the necessary shoots for dust and foul linen, which can be removed on the outside of the building. As in the other Hospitals, a nurses' room and scullery are situated in the short ward corridor, which latter is shut off from the main corridor by doors. The windows are similar to those in the Small-pox Hospital. The day room for convalescents in each pavilion also communicates with the short corridor leading to the lower ward. The Hospital is constructed for the accommodation of 172 cases of fever, but it now accommodates 230 small-pox patients, acute cases and convalescents being counted together. The nursing arrangements are decidedly superior to those at the corresponding institution in Homerton, inasmuch as each block or pavilion is under the charge of a responsible head nurse. To each ward there is attached under her orders a day and assistant-nurse, and a night nurse. The nurses and domestic servants do not mess together, or even in the same room; the former have a dininghall to themselves, under the kitchen; the latter take their meals in the kitchen of the establishment. Both here and at the Small-pox Hospital there are two laundries-one for the use of the officers and servants, and another (larger, of course) for the patients' clothing and linen; and it need scarcely be said that both are provided with all the modern appliances. The disinfection of the patients' clothing is effected by means of Nelson's patent apparatus—a box heated by gas. Barbour informs us that a heat of 250° can be obtained by its means, but that it is practically unsatisfactory in its operation, mainly on account of the rapid loss of heat which takes place on its being opened to remove the clothes, and the delay which this involves in reheating with another lot of articles. The store chamber for disinfected clothing is not open to the air on all sides, but is an apartment near the laundry and disinfecting chamber, ventilated in the ordinary manner. At the Smallpox Hospital a small brick oven is in use for disinfecting, and clothes are subsequently stored in an open shed, three sides of which are protected by lattice-work. We confess to a preference of the store chamber, constructed of louvre boards, in use at Hampstead and Homerton.

Up to the date of the last report of the Asylums Board, 570 persons had been received into the two Hospitals. When the Fever Hospital was opened, it was found that the accommodation provided was more than sufficient for the needs of the Sonthern districts, and therefore the managers wisely appropriated the overplus of beds to the relief of the Homerton and Hampstead Hospitals, and decided upon receiving patients from the Eastern and Central as well as from the Southern districts. Lately, since the old Islington Workhouse has been adopted as a convalescent Hospital, convalescents from these Hospitals, as well as from Hampstead, have been drafted off to Islington.

The numbers of patients received into the two Stockwell Hospitals up to March 17 from the several parishes were as follow :-

*Camberwell				9	St. Saviour	's				47
Clapham and	Wand	lswo	rth	32	Woolwich .					4
Greenwich				3	St. George'	6.	Westr	ninst	er.	11
Kensington					Shoreditch					19
Lambeth .				43	Holborn					13
Lewisham .				5					_	_
St. George's	Union		- :	7						215
St Olave's			- 1	12						

Urged by the Poor-law Board to make still further provision for small-pox patients, the asylum managers have purchased six and a-half acres of land at West Brompton as a site for another temporary Hospital, npon the Hampstead plan. It does not appear that they contemplate any immediate erection. but they have secured a site which can either be utilised now, should the occasion arise, or remain as a provision for an epidemic of contagious disease at any future time.

THE TEACHING OF PSYCHOLOGY IN SCHOOLS OF MEDICINE.

A DISCUSSION has been going on in the columns of a contemporary on the above subject, which seems to us to be worthy of some little attention. Shorn of its excrescences, the question resolves itself into one of How best and where best may Medical psychology be taught? How best? Certainly not from the old metaphysical standpoint, but so as to bring all the light recent investigation and past experience can educe to bear upon the subject. On this point there does not seem to be room for much discussion, and it is practically conceded on all hands that the broader the basis on which the subject is taught, the more likely is that teaching to be successful. As to where these subjects had better be studied, this seems to us to involve the old discussion; Should practice or theory come first? If practice, then study in our great asylums should be more encouraged, and their superintendents should devote themselves more to the study of individual cases, and more to making the results of these studies known, than is now their wont. If theory, then a sound psychology should be taught in every school of Medicine. Of the two, perhaps the latter proposal is the more practical, to use a paradox, for-on the principle that if the mountain won't come to Mahomet, Mahomet must go to the mountain-if the ordinary student refuses to study insanity in asylums, it is better that he should be taught the principles of psychology in his school than to know nothing of this subject. Furthermore, as every student does not desire to become an alienist, the study of insanity in asylums is of the less importance; but it is

highly desirable that all students and Practitioners should know something of the study of mind, from its somatic side especially, and of the plans of applying that knowledge to practice. We are also inclined to believe that a little more of the scientific method in the study of the insane would be good for alienists themselves; it would certainly encourage superintendents of asylums to become something more than they now in many instances are. As matters stand, the superintendent has to devote too much time to administration to attend carefully to his cases from a scientific point of view. Compare an asylum case book, for instance, with the exact record that is kept by a skilful and careful Physician of the cases in his wards or in his private practice: the difference is more than striking. Were the superintendents enabled, by training and habit, to attend more to their cases and less to domestic details, it could not, we think, fail to redound to the benefit of the patients, of themselves, and to that of the Medical world generally.

This discussion has arisen with regard to a class of Medical psychology taught during the summer session in the Edinburgh University by Professor Laycock. Does it afford sufficient training in the study of mental disease or no? Is it a course to be encouraged or to be frowned upon? To answer the last query first, which we do without the slightest hesitation-It is a course to be fostered in every possible way, inasmuch as it does not deal with a special subject as a specialty, but as applying the principles of psychology to the practice of Medicine. An accomplished Physician thereby does his best to render facile the same scientific methods in the study of both mental and bodily disorders. We further conceive that the answer to the other is equally plain. Such a course as that of Professor Laycock is well fitted to enable the ordinary Practitioner to deal with such cases of mental disorder as may happen to come under his observation; but it is impossible that such a course-or that any course-should enable a man to leave the class-room and take charge of a large asylum. The daily routine has to be studied and mastered, the duties of each attendant mapped out; there is the habit of careful inspection to be acquired. These are matters of detail, but they are essential to an asylum superintendent, and, as they cannot be acquired in a class-room, must be studied in an asylum; but though essential to the alienist, they are by no means so to the general Practitioner, whose asylum studies, should he ever undertake any such, should be devoted to the cases rather than to the routine of management. To the importance of such studies most schools are now becoming alive, and in a considerable number teachers have been appointed to deal with the subject of insanity. These, as a rule, have been alienist Physicians, whose instructions have doubtless been of great value to the pupils in what relates especially to what might be called the practice of insanity. Their habitual frame of mind would perhaps, however, tend to the ignoring of that boundary-land which is of so much importance to the Physician. Thus the instructions given will tend in time to familiarise Practitioners with the laws relating to insanity, and we shall have fewer of those deplorable instances where respectable men, acting in ignorance of laws, have offended against them, and thus subjected themselves, all unwittingly, to much annoyance, and, it may be also, expense. Again, a clearer knowledge of the manner how to draw up a lunacy certificate must in itself be a gain. As matters now stand, facts elicited by inquiry from relatives or attendants are constantly placed under the heading reserved for those observed by the Medical man himself, and vice versa. These are doubtless important, and such knowledge is of a clear and distinct value; but it is not everything. As we have again and again insisted, matter is not all in all in education; method goes for much. The application of scientific methods to psychological facts is in itself a positive good. Still more is it so when these facts, handled in a scientific fashion, are applied to Medical practice. And as the principles of Medicine cannot be well learned from elinical lectures on isolated cases alone, so applied psychology had better also be studied both generally and as bearing on and explaining particular cases. In this way it seems to us that Professor Layocck's class is likely to prove of great service to the Edinburgh students generally, als well as to those intending to devote themselves specially to lunacy practice.

PROPOSED ALTERATIONS IN PHARMACOPŒIAL NOMENCLATURE.

WHEN the first edition of the British Pharmacopecia made its appearance, so little permanent change in our chemical nomenclature was anticipated, that the old system was retained without a word, notwithstanding all the difficulties it involved, especially that of dealing with certain substances as direct compounds of elements-chloride of sodium, for examplewhilst others, say the sulphate of the same base, were supposed to be made up of the oxide of the metal sodium and sulphuric acid. By the time the second edition appeared, the new ideas had made such progress, that the system of notation they implied was placed, not exactly on an equal footing with the old, but at all events was fairly recognised. This, in itself, was a very great thing. Had the old plan been solely retained, it is quite certain that the new system would not have been so generally adopted by Medical teachers, for in their eyes chemistry must be regarded, not alone as an absolute science, but also in its application to medicine; chief among these, of course, being the chemistry of the Pharmacoporia. But whilst the new notation was employed, the old nomenclature was exclusively retained, and carbonate of sods and nitrate of silver were still spoken of as having ostensibly the same constitution, although soda was the oxide of sodium, and there was no pretence that the oxide constituted the base in the silver salt; this anomaly remains.

Professor Attfield has recently been drawing attention to this fact, and also to the expediency of having the pharmacoperain nomenclature as fixed as possible. Now, as sweeping revolutions are no more desirable in nomenclature than in politics, it becomes a matter of moment to search out how best to adapt the pharmacoposial names to the requirements of sciance, and so give them a more permanent character, whilst making the change as slight as possible.

For many reasons, it is desirable that scientific nomenclature should be an exact reflex of our scientific status, and, viewing the matter solely in this light, that names should change with our conceptions of things; but it is evident that such constant changes are most objectionable in pharmacy. There is the notorious example of the chloride of mercury, which one man would read as calomel, another as corrosive sublimate, according to his education, and on him it would depend whether the patient was poisoned, or the Physician's prescription rendered inoperative. On the other hand, in the olden days, when chemical composition was unknown and uncared for, a system of trivial names were in use, which were exceedingly useful, though altogether unscientific. Our forefathers talked of Mindererus' spirit, of sal volatile, of Glauber's salt, of pearl ash, of sal de Duobus, sweet spirit of nitre, and the like : these there was no possibility of mistaking, but, because they gave no elue to composition, they were gradually set aside as chemical remedies multiplied and it became desirable to use names which carried with them some idea of composition and properties. Between these two extremes we are, according to Professor Attfield, to seek the happy medium : and the changes he proposes to effect are substantially the substitution of the words "potassium, ammonium, sodium, lithium, calcium, and magnesium," for "potass, ammonia, soda, lithia, lime, and magnesia," respectively. Others there are, but these are the most important. The only instance in which he would exactly assimilate the proposed alterations to those terms now

in general use is in the case of chloride of tin, which he proposes to call "stannous chloride." Why in this instance he should depart from his general principles we are at a loss to know. Another sensible proposal he makes is, that where one compound of a metal is to be distinguished from another, it shoulds be by an initial syllable, and not by a terminal one; thus he would say "permitrate of mercury" instead of "mercurio nitrate." This, considering the universal feudency to abbreviation in prescribing, we hold to be most wise, although a departure from the common custom of chemists. Dr. Attifield's "risms' so well expresses his idea, and so clearly exposes come of our present inconsistencies, that we venture to append it in full, and to commend it to our readers.

"The chief alterations in pharmacoposial nomenclature now proposed amount to this, that the compounds of the alkalimetals and alkalime-earth-metals, instead of being named as hitherto, on two distinct systems, should follow but one; that instead of salts of potassium and of potash we should have salts of potassium only; instead of sodium and soda compounds, sodium only; and so with preparations of ammonium, lithium, calcium, magnesium, and aluminium. This is a step in the direction of simplicity and permanency, and away from that of theory.

that or theory.

"Synonyms.—Modern scientific chemical names, and the old dualistic names, should, I think, be included as synonyms of the leading name in all Pharmacopecias.

"Exceptional Alterations.—Constitutional objections to the

name arsenium acidum would be obviated by the old name name areasism would be overlated by the Old Bands areasism with the highest composition of bi-chromate of potassism, the first word of its name is most unsuitable, and would be advantageously replaced by red chromate—a name which would usefully distinguish the salt from yellow chromate of potassism. The names of the bismuth powders are not at present consistent with each other; if the one be termed subnitrate, the other should be subcarbonate, not 'carbonate. But these preparations and the similar compounds of copper and lead are normal rather than 'snb' salts, containing oxygen in the place of an exactly equivalent quantity of the acidulous radical of the neutral salts, and might well be termed respectively exycarbonate of bismuth, exquitrate of bismuth, acetate of copper, oxymeetate of lead; at all events the latter names would do good service as synonyms. Similar remarks apply to the perachydrates of iron. The prefix 'sub' is most usefully, and, indeed, indispensably applied in the case of calomel, which is the 'lower' or under-chloride of mercury; it would be well if the meaning of the syllable could be always thus restricted to its etymological signification, and never again used in its old conventional sense. The names turturate antimony, tartarated iron, tartarated sodium, I do not like at all. The sister terms, sulphurated antimony and sulphurated potash, are most happy, their utter vagueness fairly representing the nondescript character of the preparations. But tartrate of are most happy, their titter vagueness saily representing such nondescript character of the preparations. But terrate of antimony end potassium, tartrate of iron and potassium, and attrate of socialism and potassium, are at least as definite in composition as the citric trio which are properly honoured with the composition as the citric trio which are properly honoured with the composition as the citric trio which are properly honoured with the composition of the citric trious of the citric trious of the citric trious and the definite names, citrate of bismuth and ammonium, citrate of iron and ammonium, and citrate of iron and quinia (or, rather, with the old forms of those names)."

THE VOLUNTEER AND ARMY MEDICAL SERVICES. WRATEVER may have been the amount of instruction in drill and tactics acquired by the volunteers during the preliminary training for the Easter Monday Review, and however much the great annual sham fight may in its military evolutions have resembled a real engagement-a point on which military critics have expressed very conflicting opinions-there can be no doubt that from a Medical point of view it has not presented any of the aspects of reality. It is, of course, a matter for congratulation that such should have been the case, and that the list of casualties among the very considerable number of troops engaged should have been relatively so small. It is very satisfactory to learn that during the review of Monday last there was no accident or mishap of any kind with the Snider rifle-the employment of which fortunately renders impossible the disagreeable accident of being shot with a comrade's ramrod-and that this was the first review at which there have been no men wounded with gunpowder, The list of other casualties was also very small. These face prove that such an extensive display of Medical organisation as was suggested by a contemporary would have been quite unnecessary. But we should not for this reason consider ourselves absorder from the consideration of the question as to the most suitable system of Medical organisation for our volunteer and reserve forces. The subject is one of paramount importance, and must need with most serious attention in any scheme of army reform deserving of the same.

Until the necessity arises for bringing the volunteers into action with an invading enemy, the constitution of the force renders inapplicable as well as unnecessary any system of Medical aid beyond that already afforded on reviews and field days by the Volunteer Medical Staff. The circumstance of an invasion would, however, entirely alter the case; the volunteers would then be embodied with a very considerable proportion of the regular army, with which they would have in all respects to assimilate themselves for the time. They would then depend for their supplies of all sorts upon the resources of the Army Commissariat and Medical Departments. aided, it is to be expected or hoped, by contributions at least as liberal as those which flowed from the charitable of this country during the late war between France and Prussia. The great object to be desired is, then, that these two great departments of the public service shall attain such an elasticity of organisation during peace as shall enable them during war to embrace and utilise, to the best advantage of all concerned. the personal efforts of volunteers of all sorts.

The experience of these latter days has taught us that the aid of the sick and wounded in war not only affords full scope for all the volunteer energy which can be brought to bear on it, but that, unfortunately, the requirements of the sufferers have always vastly exceeded all that has ever been effected for their relief. We do not, therefore, anticipate that any opposition to well-directed volunteer aid would be raised by the military or Medical anthorities, or, indeed, tolerated by the country. But to derive from such aid all that may reasonably be expected from it, we maintain that it should be afforded in a spirit of perfect accord and, in fact, subordination to those authorities on whom, ex officio, the duty and responsibility of making all necessary arrangements permanently devolve. The Medical officers of volunteers, under such eircumstances, should therefore, for the time, in their respective ranks, be subject to the same discipline and control as prevail among the permanent officers of the Army Medical Service, of which, in fact, they should become acting members. This would be the only means by which nniformity of system on active service could be attained. It should also be remembered that the Professional results of a campaign are not limited by the actual termination of hostilities, but must be patiently collected and systematically arranged in order that they may be thoroughly utilised; and this can only be done by carrying out, during actual service, a regular system of record of Medical events, such as has with so much advantage been established in the Army Medical Department.

In the proposed establishment of a reserve force, into which be present militis aball gradually be absorbed and assimilated, through the localisation of regiments of the line, the means of establishing a reserve force of trained Medical officers, we trust, will not be lost sight of. The alowness of promotion in all ranks of the Army Medical Department is so well known that the glimmer of a prospect of amelioration is eagerly looked for. Early optional retirement, on a moderate half-pay, with a liability, up to a certain age, of being called upon to re-enter the active ranks, if combined with a system of selection of deserving officers for the Medical charge of the reserve forces, according to districts, would impart a wonderful impetus to the now retarded stream of promotion, and would at the same time place at the disposal of the anthorities a trained staff of Medical officers, available for any emergency. Compulsory Medical officers, available for any emergency.

retirement, on increased half-pay, at the same age at which the obligation to active service terminates, would need to maintain a sub-current in the Medical reserve, and present a moderate number of annual vacancies to be filled by temporarily retrod Medical officers. In order not entirely to lose the services of men of established ability and zeal, and to maintain the efficiency of the general service, it would also advisable that reserve Medical officers should be eligible for reintroduction and promotion into the inspectorial grades of the Arny Medical Department. As we have already so frequently urged, it would be osseutial to the maintenance of the steam of promotion that these appointments should be held only for limited periods. No objection, however, could be made against officers retiring from them continuing eligible for the post of Director-General.

The approaching reforms in the whole system of army administration cannot be effected without an investigation and consideration of the Medical service, the importance of which to the well-being of an army can hardly be overestimated; but when, as is likely to be the case with us, the army represents the strength and vigour of the country, its Medical administration involves questions of supreme national importance.

THE WEEK.

TOPICS OF THE DAY.

Times is but little new this week. The great world of imperial politics and the small one of Medical politics are both taking a holiday. The Committees on the Conjoint Board are, we hope, enjoying theirs, and will meet with renewed appetite for work and undiminished determination to carry through their scheme after the recess. As Medical men, we cannot but wish that the opposition to Mr. Goschen's Local Taxation Bill and Mr. Braso's Licensing Bill, on the part of the landed and brewing interests, may have sufficiently cooled when Parliament meets to permit some næful legislation on these subjects in the present Session. There is but little else now before Parliament of any Medical interest.

Professor Parkes, we are glad to hear, will most probably be elected a Sanator of the University of London at the next meeting of Convocation, which will take place on May 9. By a mutual naderstanding between the Medical and Arts graduates, a Medical graduate will be elected on this occasion, and an Arts graduate on the next. Mr. Jacob Waley, Dr. Weymonth, Ll.D., and Mr. Julian Goldsmid, M.A., M.P., are named as probable enablidates. Mr. Julian Goldsmid; gift to the University of £1000, in ten yearly instalments, for the purpose of founding a classical library, rives him a claim cut the gradianded of this fellow-graduates. We notice that it is proposed to purhase the late Professor Do Morgan's mathematical library.

In the list of candidates proposed for the Fellowship of the Royal Society are the names of the following Medical men :-Surgeon-Major Andrew Leith Adams, M.B., eminent as a geologist, zoologist, and traveller; Dr. William Budd. of Bristol: Mr. George William Callender, of St. Bartholomew's Hospital; Mr. Le Gros Clark, of St. Thomas's Hospital; Dr. John Cleland, Professor of Anatemy in Queen's College, Galway; Dr. Herbert Davies, of the London Hospital; Dr. Walter Dickson, Medical Inspector of H.M.'s Customs; Dr. Alexander Fleming, of Birmingham; Dr. Wilson Fox, of University College; Dr. Arthur Gamgee, of Edinburgh; Mr. Edmund Thomas Higgins, Surgeon and Naturalist; Mr. Edmund Charles Johnson, F.R.C.S., author of "On the Scientific Appliances for the Education of the Blind"; Dr. M. Kelburne King, of Hull; Dr. Richard Norris, of Birmingham; Dr. Edward Latham Ormerod, of Brighton; Mr. Oliver Pemberton, of Birmingham; Dr. Richard Quain, late President of the Patheogical Society; Dr. George West Royston Pigott, the Microscopist; Dr. John Shortt, of the Madras Medical Service; Dr. A. T. Houghton Waters, of Liverpool; and Mr. John Wood, of King's College.

The proposal to remove the Government School of Mines from Jermyn-street to South Kensington is part of that plan for centralising the scientific treasures and scientific teaching of the metroplisin a suburb which, although in the midst of the fashionable world, is practically inaccessible to the masses of Londoners, against which we have so often protested. Prof. Huxley, who is one of the Royal Commissioners on Scientific Education who have recommended this change, defends it on the ground that the premises in Jermyn-street are inconvenient and insufficient, and that the building recently erected by the Government at South Kensington is convenient and spacious. We fail to see the force of the reasoning. The School of Mines is not supported by the nation on account of the building in which it is housed, nor for the Professors who direct it, but for the sake of the people whom it is to instruct. The first element of convenience in such a school, therefore, is that it is accessible to its scholars. This the school in Jermyn-street is; the building in South Kensington is not. If the building in Jermyn-street be too small and badly arranged, the nation can surely afford to remedy these defects. But it ought not to afford to keep up a national scientific institute for the sole benefit of a favoured aristocratic purlicu.

The Medical officers of volunteer corps present at the Brighton review have expressed their sense of the obligation under which the Medical Department of the Volunteer Force lies to Brigade-Surgeon J. Cordy Burrows, of the lat Sussex. Artillery Volunteers, by presenting that gentleman with a valuable gold smuft-box. The presentation was made by Dr. Carr, of the lat Kent Riffe Volunteers, after a breakfast to which the Volunteer Medical Officers were invited by Mr. Burrows. In the name of the assembled guests, Dr. Carr expressed their sense of Mr. Burrows' hospitality and kindness to themselves personally, and his devotion to the interests of the Medical Volunteer Service.

SURGEON-MAJOR WYATT.

Summon-Moon Wyarr, of the Coldstream Guards, having, in consequence of indisposition, been unable to return from Paris at the same time as Dr. Gordon, C.B., Deputy Inspector-General of Army Hospitals, in concert with whom he had been sent by our Government to visit and report upon the Medical arrangements of the French army, has, we are happy to learn, returned to this country in a better state of health.

THE ANTI-CONTAGIOUS DISEASES ACT ASSOCIATION.

Walerra from the Daily Nees that, during the prosent reign of misrule in Paris, the Commune, rather hard upon men, in many cases depriving them of their liberty and subjecting them to severest discipline, is extremely anxious for the liberty of women, and has begun by at once abolishing that department of the police-office which ventured to busy itself with their morals. The opponents of the Anti-Contagious Diseases Act in this country, we hardly think, can congratulate themselves on this acquisition to their ranks.

ORGANISATION OF MILITARY HOSPITALS.

Mn. D. Daliverez, Member for Bath, has given notice that it is his intention on Monday night to move a resolution to the effect that no system of military reform will be complete or satisfactory which does not include the principle that, in the organisation and administration of general military Hospitals, power and responsibility should be combined in the persons of the Medical officers, instead of, as at present, being divided between them and military commandants. We need hardly

say how cordially we wish him success. The reappearance of the charge for an assistant to the Military Governor at the Royal Victoria Hospital, Netley, in the estimates for 1871, should, on economic grounds, carry considerable weight in the House of Cammons.

BOYAL MEDICAL AND CHIRURGICAL SOCIETY.

The meeting of the Medico-Chirurgical Society on Thesday was sufficiently interesting to warrant the hope that the lethargic condition, almost amounting to coma, into which this venerable Society has been sinking of late has ceased, and that the Fellows are awakening once more with the season. The paper of the evening was by Dr. Silver, on a very interesting case of localised paralysis of lips, tongue, and pharynx. The teachings of anatomy, physiology, and pathology were most happily blended in Dr. Silver's account of and reasoning on this case, and the criticisms of Dr. Harley and Dr. Broadbent reminded us of the best days of Medical discussion. The disease came on suddenly, and presented at its onset all the symptoms ordinarily characteristic of the progressive form of the malady just before death. These were paralysis of the lips and jaws, of the tongue, soft palate, pharynx, and larynx, besides grave cardiac and respiratory symptoms, so that there was total loss of voice and power of swallowing, and tenacious saliva ran constantly from the mouth. From this dangerous condition the man gradually rallied, and by-and-bye was able to swallow, but he did not recover his voice. Intelligence being perfect, there being no loss of motion or sensation, and the senses being unimpaired, it became plain that the affection depended on lesion of the medulia oblungata below the level of the auditory, glosso-pharyngeal, and trigeminal (sensory) nuclei; that it affected the nuclei of the motor root of the trigeminus, of the vagus, the long root of the facial, the spinal accessory, and hypoglossal; the spinal cord was not affected. Several drawings from Dr. Lockhart Clarke's researches illustrated this portion of the subject. With such promise of good work among the men of the coming decade, we need not fear for the future of British Medicine.

Dr. Robert Lee followed with a short and pithy but incoherent paper, which led to some lively remarks from Mr. Birkett and Mr. Hulke, on the Results of Operations for Cancer. No more important subject could engage the thoughts of the Fellows, and we hope we understood Mr. Birkett correctly when he promised to introduce it again by a paper on the results of his personal experience. At the next meeting, Mr. Hutchinson will comment on some oases of Chancre following Vaccination. A paper by Mr. Paget is only deferred unit the author is sufficiently recovered to attend; and Mr. Spencer Wells follows by his fourth series of One Hundred Cases of Ovariotomy, with especial reference to Difficulties in Diagnosis. Soutractive a programme is certain to draw full meetings, and the Profession will look with interest to our reports of the discussions, which we trust will be worthy of the Society.

AID FOR THE SICK AND WOUNDED IN WAR.

Colorer, R. J. Loyd-Lerman, V.C., M.P., delivered a lecture on this subject in the Royal United Service Institution, on Friday, March 31. His Royal Highness the Duke of Cambridge was in the chair. There was a very large audience, among whom were several ladies, the Earl of Shaftesbury, Sir W.m. Codrington, Sir T. G. Logan, and many other military and Medical officers. The lecture was chiefly a résumé of the proceedings of the English National Aid Society during the are between France and Germany, and field with a familiar sound on the cars of all who had read the correspondence from the east of war in the daily papers. The maintenance during peace of an establishment of individuals and stores commensurate to the relief of the sufferers from war being a task which no Government can ever be expected to undertake, the

itself may be prepared, by voluntary efforts, to supplement the regular establishment, is rendered necessary. In order that al the advantages of the association of volunteers with the permanent staff in such work may be attained, the essential point is that the volunteer organisation shall, from the outset till the end, sacrifice its individuality, and be completely under the control of the military authorities. Colonel Loyd-Lindsay did not appear to us sufficiently to estimate the importance of this point; but there can nover be harmony of action unless it be clearly established. The intervention of neutral aid societies is a subject on which we have on former occasions expressed our opinion. We consider that the experience gained at such an enormous cost to this country during the late war should be sufficient to warn us against over again making a similar attempt. The jealousy of foreign interference, the desire for stores or money evinced by both sides in preference to personal aid, and the fact that the supply of such requirements, although ostensibly for the sole use of sick and wounded, virtually left equivalent means available for warlike purposes, and to that extent relieved the countries engaged from charges legitimately devolving upon them, while, at the same time, it deprived, as is well known, many of our home charities of their usual means of support, confirm us in our opinion. Colonel Loyd-Lindsay concluded his lecture by reading some interesting extracts from the report by Surgeon Manley, V.C.R.A., of the ambulance under his charge at Orleans. He also alluded in terms of the highest commendation to the services performed by Drs. Frank, Sims, McCormac, and Yunger,

FROM ABBOAD.—STRYCHNIA IN AMAUROSIS—M. DESGUIN ON GUN-SHOT WOUNDS AFTER SEDAN—M. HEYFELDER ON CONSERVATIVE SURGERY IN GUNSHOT WOUNDS.

PROFESSOR NAGEL, in illustration of a former communication (Medical Times and Gazette, January 21, p. 76) on the successful employment of strychnia in the treatment of amblyopia and amaurosis, has recently published in the Berlin Wochenschrift (No. 6) the details of a remarkable example which the present war brought under his notice. A Prussian soldier, 22 years of age, was, on August 14, struck on the left temporal region by the ball of a chassepût, fired at about fifty paces distance, which, after shattering the outer wall of the orbit and the zygoma, passed out near the meatus auditorius. The patient did not come under Professor Nägel's care at Tübingen until January 2, when he was in full convalescence, the whole of the wound having healed, except that of the meatus, on passing a probe through which a portion of exposed bone could be felt. The left eye was completely blind, large bright objects not being visible. On placing the patient in front of a light window, he could discern only a slight glimmer of light, and was aware when this was darkened by the hand at a foot distance. In a dark room, also, the bright flame of a lamp was perceived at some inches distance. The visual power of the right eye, too, had undergone considerable diminution, and, if it were employed for a few minutes in reading even large letters, it became fatigued, while subjective flashes of light appeared in the left eye. The man could not possibly follow his occupation as a weaver. Externally, the eyes exhibited little abnormal, the left pupil, however, being somewhat dilated, and only moving slowly. The results of the ophthalmoscopic examination are given in considerable detail, when it appeared that the ball could not have come into contact with either eye, the effects observed having been produced by the compression of the air caused by its striking against the bones. Some very minute foreign bodies which were observed in the vitreous body were probably due to granules of powder. As the changes which had been induced by the subsequent inflammation were not considerable, the blindness being due rather to functional paralysis than visible anatomical alterations, a favourable prognosis was given. At all events, a moderate improvement

in the left eye from the strychnis treatment was subicipated, and the result far exceeded the expectation. Between January 5 and January 15 nine injections of strychna, were performed in the supra-orbital region, or in one or other of the temporal regions. The patient's condition markedly improved after each injection, and as after the ninth he was able to read after each injection, and as after the ninth he was able to read after each injection, and as after the subicipation of the supraved after an after the subicipation of the temporal region, was in nowise bettered by the treatment.

M. Desguin, a Surgeon in a Belgian artillery regiment, who was attached to an ambulance at Bouillon immediately after the battle of Sedan, has published an interesting account of some of the characteristics of the wounds observed in the present war, in which they differ from those described after the battles of recent times. The Dreyse, or needle-gun, employed by the Prussian infantry had already exhibited its remarkable power during the Bohemian campaign, so that its mechanism, the form of its ball, and the destructive effects which this produced were all well known. But this arm, which in 1866 had brought about a revolution in the art of war, was found to labour under various defects, which all the European governments were employed in studying in order to produce an improved weapon. The chassepôt, which was adopted by the French army, had, prior to the present war, only been tried at Mentana, and in the suppression of popular tumults. Besides these, there were the muskets of the Bavarian, Wurtemberg, and Saxon troops, as also the "spuff-box gun" of the Francs-tireurs, which, although differing from each other in detail, all agreed in the employment of non-spherical balls projected through rifled barrels-conditions determining remarkable precision and rapidity in firing, combined with great projectile and penetrative force. In a Surgical point of view these are the arms which are of most interest; for, however much the various modifications made in the artillery and the mode of serving it may influence the precision and force of its fire, the wounds produced by it are much alike, and now, as formerly, a limb struck by a projectile during its course is almost necessarily condemned to amputation, in consequence of the excessive shattering it has undergone. The balls of the mitraillenses were of the same form and about double the size of those of the chassepôts, but the wounds produced by either weapon could seldom be distinguished from each other. Sabreand beyonet-wounds were very seldom met with.

Having at Bouillon full opportunity of observing the lesions caused by all the varieties of rifle, M. Desguin declares that he was unable to perceive the least difference among them. He had often heard that the Prussian and Bavarian balls made larger wounds than the French balls, but he never could verify the statement, and he found it impossible to conclude as to the dimensions of the ball from the size or form of the wound. A characteristic which has been often observed with respect to all these balls was that the orifices of entrance and exit exhibited no difference whatever; and so true was this, that the patient had to be questioned as to the position in which ho was, and as to where the ball had penetrated. Under some circumstances, when the wound only involved soft parts, inducing a superficial seton wound, this was remarkably clean, and in nowise jagged, so that in a few days cicatrisation was nearly complete. very slight suppuration taking place. From numerous facts of this kind observed, it may be concluded that when the balls now in use only traverse soft parts, and that superficially, their track is remarkably clean and rectilinear, and the complications are very few; so that, in fine, they produce less considerable lesions than the old balls cansed. But this is not the case when bones are struck, which may be done in the direction of the diameter or obliquely. In the latter

and simple cases, the ball, after having come in contact with the bone, deviates in its course, and produces ravages among the soft parts preportioned to its loss in rapidity of moien. It is thus very often detained in the limb, requiring a couster-opening for its removal. When the bone is struck in it, diameter, the most serious comminutive fractures may result, the bone being sometimes literally pulverised, and the neighbouring soft parts triturated. Several such cases were received at Bouillon, amputation not having been performed on the field of battle. Their general condition now prohibited its employment, and most of them died, with abundant suppuration and all the symptoms of pyremia. In the same category are to be placed penetrating wounds of the joints, with comminutive fractures of the ends of the bones, the discharge of splinters, excessive pain, and abundant suppuration. Conservative Surgery was put into force as far as possible in these cases, and sometimes with good results. "But I have acquired the conviction that, as a general rule, too few amputations were performed on the field of battle, and that the operation would often have been the means of saving the life of those unfortunate beings who long afterwards succombed to purulent infection, after having been the victims of intelerable suffering.

Almost all the balls that were extracted had undergone great change in shape, some being only flattened, others presenting irregularities or superficial ruptures in their long axis; and others, again, being cleaved right through in the direction of this axis. M. Desguin believes that balls found in this state have given rise to the erroneous accusation of the emplayment of explosive bullets. Owing to the great part which the formidable German artillery played at the battle of Sedan, the wounds from shells were exceedingly numerous. The portion of lead which surrounds the projectile becomes detached after it has been fired, flying into fragments, which, on striking the limbs with great force, may produce as severely contused wounds as those which result from the explosion of the shell itself. Marshal MacMahon was, indeed, wounded by one of the fragments of this leaden envelope. Sometimes, when the fragments of shells only strike at a great distance, or after having rebounded more than once, they only produce very slight wounds or mere contusions. In other cases, the shattering is so great that immediate amputation is the only resource. In numerous cases, wounds which at an early period seem very slight afterwards become so complicated as to endanger the patient's limb, or even his life; so that, when contused wounds are in the vicinity of articulations, we should never be put off our guard by their apparent benignity, and a vigorous antiphlogistic treatment should be resorted to even before any signs of active inflammation manifest themselves. The complications most frequently observed were both Medical and Surgical. Among the first were typhus and dysentery. These were chiefly observed among the German wounded, and were attributable to the great privations of all sorts which they had been subjected to, bivouscing in all weathers without tents. and lying down on the damp ground or even in the mud. The symptoms of typhus and dysentery were constantly found mingled together, so that each ease presented symptoms of both affections. They proved a most fatal complication in the wounded who became their subjects. Pyemia and septicemia also were very fatal among the wounded, especially those who were the subjects of comminutive fracture with suppuration. Such cases, on their arrival in Belgium, were in a condition that rendered amputation out of the question. In four of the author's cases tetanus appeared, and were treated by chloral in increasing doses, until four grammes per diem were given. In all, the symptoms were at first arrested, but all four eventually died. Secondary hæmorrhage was not very frequently observed, and was always caused by ulceration, consequent upon inflammation of the tissues in the vicinity of the wound.

In treating gunshot wounds, M. Desguin states that in the

great majority of cases the amovo-inamovible apparatus should le employed. It prevents movements of the parts in comninutive fractures, and, therefore, greatly diminishes the sufferings of the wounded, which chiefly arise from irritation of the soft parts by the pointed extremities of the splintered fragments. Moreover, the frequent dressings which the abundant suppuration in these cases render necessary are easily performed. The dressing by occlusion, though wellsuited for superficial wounds with little suppuration, is not applicable to complicated suppurating wounds. Weak solutions of carbolic acid were much employed at Bouillon for washing the wounds, meistening the fenestrated dressings, and injecting sinuous tracks leading to the fractured region; and in intra-articular wounds, the injection of a weak solution of nitrate of silver proved of great service. Most of the patients were anæmic, having become attenuated by forced marches and every kind of privation. Quinine and wine and a good diet were therefore prescribed. The violent pains and obstinate sleepleasness which many suffered from had to be assuaged by opium and morphia,

Mr. Oscar Heyfelder, of St. Petersburg, who, during the late war, had charge of an ambulance at Neuwied, seems to entertain a much higher opinion of the advantages derivable from treating Surgical patients in tents and sheds than is held by Professor Billroth and other German Surgeons. In an address delivered at the Belgian Academy of Medicine, March 24, he stated that he was a strong advocate of conservative Surgery, freely resorting to excision whenever possible, and that almost all such operations in his hands were successful-another point at which he is completely at issue with the German and French Surgeons, who are pretty well of accord that many more lives could have been saved in this war if conservative Surgery had been less practised. He strongly advocates the plaster amovoinamovible apparatus, and sometimes has recourse to carbolic acid dressings; but his great reliance is on free exposure to the air, and the employment of a restorative diet.

AUTOBIOGRAPHICAL RECOLLECTIONS OF THE PROFESSION.

No. XII.

By J. F. CLARKE, M.R.C.S., For nearly forty years on the Editorial Staff of the "Lancet."

Editors, Authors, Actors, and Dectors: Docton, USmith, C.
Matheces, John Recce, R. Keeley, Fanny Kemble, Charles
Kemble, Edmund Kenn, Dr. Mayinn, Jack Lawless, Howardus
Leigh Thomas, Merriman—Projessional Incomes—Elibidoon—
Long-sciended Writing—Dr. Pinckard—Dr. Spurgin «Mr.
Anthony White—Benjumin Golding—John P. Viscent—Dr.
Darling.

During the five years of my pupilage I was in the very centreat that time (1828-33)-of the literary and dramatic world. It was then the fashion for editors and actors to live either at or near their places of business. Barnes, who was for a long period the editor of the Times, lived in Soho-square; John Wight, the editor of the Morning Herald and author of "Mornings at Bow-street," in the Strand; and Stewart, the proprietor of the Courier, at the printing- and publishing-office of the paper, on the north side of the Strand, opposite Wellington-street. The house was taken down when the north part of Wellington-street was formed, in consequence of the burning down of the old Lyceum Theatre. Murdo Young. the editor of the Sun, who died last year upwards of 80 years of age, lived at 112 in the Strand, then, and for fifty years before, the Sun Office; Gaspey, the proprietor and editor of the Sunday Times, lived in Tavistock-street, Covent-garden: Dowling, the editor of the Bell's Life, in Norfolk-street, Strand. Actors of prominence also resided in the immediate neighbourhood. Dowton lived exactly opposite our house, with his

sister, who was married to a besier of the name of Smith. I used constantly to see Dowton, and on one occasion prescribed for him. He was a tall, portly man, and off the stage (though he was as free from "cant" as anyone I knew) looked the very character for the impersonation of which he was so celebrated-Dr. Cantwell in "The Hypocrite." O'Smith, the delineator of "The Vampire," "The Bottle Imp," and similar characters, resided next door, and was a patient of my master. He was a singular-looking man, with a tall, gaunt frame, and a face well suited for the characters he delineated with such marvellous effect. He was one of the gentlest and kindest of human beings, and was never wearied of doing good works. In the same house lived John Huckell, the stagedoorkeeper of the Adelphi Theatre-not an actor, but a wellknown personage, and the friend of Charles Mathews, who at this time, with Yates, was lessee of the Adelphi. Huckell, like Mrs. Malaprop, had a peculiar propensity for remarkable epitaphs. He would frequently come into the surgery to speak about his wife, who was a confirmed invalid, and to s ne letters he had received from his "friend" Mathews. fact was, Mathews would draw Huckell into a correspondence with a view of making use of his sayings in his " At Home's Of one occasion, in writing to Mathews, Huckell stated that his wife lad "a most vocarious appetite," but he had us doubt that this arose from her being "impregnant with asthma." John Revre, the "elephant of fan" at the Adelphi, lived on the first-floor at Stammers, the silversmith, two doors east of Beaufort-buildings in the Strand. ccasionally visited him. Like Liston, he was subject to fits of the most desponding melancholy, during which he presented a most wretched spectacle. He could never play, like Edmund a most wise med spectace. The could never play, are somman Kenn, unless under the influence of powerful stimulants, the reaction from which was really dreadful. I once recollect going behind the scenes at the Adelphi to see him. He was at the time playing his great and humorous character of Marma-duke Magog in "The Wreck Ashore," Jemmy Starlight, the next prominent character, being sustained by the present Mr. Buckstone, the author of that fameus drama. John had just come off the stage from a scene in which he had convulsed the andience with laughter. I found him walking up and down a short corridor which existed in the old Adelphi building. He was extremely irritable and nervous, and declared he could not finish his part. A full dese of aromatic spirits of ammonia in camphor mixture somewhat revived him, and, at the summons of the call-boy, he was again on the stage to convulse the audience. Like Kean, he was remarkably sensitive to the expression of the slightest dis-approbation on the part of the audience, but was revivified, as it were, by applause. When Keeley was playing in "The Bottle Imp," he was en one occasion a great sufferer from the Footigits, and came into our surgery for me to cup him.

Everything was get ready for the operation. I was just on
the point of placing a glass on his back, when he suddenly the point of piacing a grass on his oscs, when he suddenly turned round, and, with a most comically serious face, exclaimed "Don't, don't hurt me!" "Mr. Keeley," I replied, "you really must be quiet, or I cannot go on," I took about twelve ounces of blood, with the effect of entirely relieving him; and I believe he never suffered from the same symptoms afterwards. It is a curious fact that he never forgot this little episode in his life, even when memory on other events long past was most imperfect. I met him, shortly before his death, in a Brompton omnibus. He referred to the operation, but I found he did omailus. He referred to the operation, but I found he dut not recollect many circumstances in his career at the same time; and, when I spoke of some of them, he merely said "God know." Mr. Gibrer lived in Sohe-spauer's Mars in the rooms fronting the Adelphi Theatre in the Strand; Arnold, the rooms fronting the Adelphi Theatre in the Strand; Arnold, Washett, and annaper of the Lyonem, in Golden-squares: Mrs. Washett, and the Committee of Bullad singers, in the Quad-rant. For some the Committee of Bullad singers, in the Quad-rant. suffered from severe illness, and had often to appear when she was more fitted to be in bed.

At this time (1830) a newspaper called the Age was published in Catherine-street in the Strand, at a house taken down some little time since for the Gaiety Theatre. This paper was most scurritions and unprincipled. The owner and editor was a person of the name of Westmacott. He libelled people, as it were, with impunity—at all events, if do not recollect an action for litel being brought against it. Westmacott, however, on one occasion got overerly punished. When Fanny Kemble first appeared at Covent-gurden Theatre, in the character of Juliet, the part of Romee was sustained by her father, Charles

Kemble. In some comments upon her first appearance, West-macott styled her a "doxy." A few nights afterwards, Kemble, whilst on the the stage, saw the impudent libeller in one of the dress boxes. The moment the piece was over, Kemble, still in costume, went round to Westmacott, took him by the collar, dragged him into the lobby, and gave him a sound thrashing. We were always early-to-bed people in Brydges-street. I was just getting into bed when the nightbell rang, and on coming into the surgery I found Westmacott in a sad plight. He told me he had fallen down. I gave him a lotion for a black eye, and some medicine. The fellow a fotion for a black eye, and some medicine. And fellow had the impudence to fing a shilling on the table. What is this for?" I said. "Why, for yourself. I could not call you up without giving you a fee." "Oh," I said, "take up the shilling; I'll place you on the pauper list." He laughed heartily, took up the shilling, and departed. He dared not proceed apainst Kemble for the assault, and contented himself with abusing him in the Age as a "coward" and a "ruffian." Kemble was contented with the revenge he had taken. Age, however, was destined to be outdone in ribaldry and blackguardism by another paper. The Satirist, edited by blackguardism by another paper. The Scitisis, edited by B. Gregory, was established some few years later. It was a disgrace to the periodical literature of the day; but it displayed considerable ability, and had a good circulation. Gregory was an actor of no mean powers, and appeared several times on the stage, usually as Richard the Third. Those, however, who had been attacked by him mustered in strength and drove him from the stage. Westmacott died last year, and drove him from the stage. Westmacott died last year, in Paris, at a very advanced age; Grogory snecumbed in the prime of life; Edmund Kean played occasionally at Drury lane, but he was fast sinking from physical business. Stages, Mr. Douchez, a dapper, shrewd, and convivial little man. Mr. Douchez, a dapper, shrewd, and convivial little man, Kean was very much attached to him, and in his later years was constantly in his company. Douchez then lived in Golden-square, but in the evening was to be almost invariably found at "The Harp," a heuse used by Kean, in Little Russell-setwer of the lived in the later of later Othello at Drury-lane. Charles Young-the brother of George Young, the eminent Surgeon, who practised for many years in the house now occupied by William Coulson—was Iago; Cooper, Cassio; and Miss Phillips, Desdemons. In the fourth Cooper, Casso; and ansa rumps, Descension. At the contract Kean broke down, but managed somehow to struggle through the scene. He immediately threw himself upon a sofa just behind the scenes. He was very weak and tottery. Douchez told me that he was fearful Kean could not finish the part, but he gave him his usual dose of brandy-and-water. When the call came, Kean jumped up and stalked on the stage, exclaining, with a proud air, "New hear them! hear them!" in allusion to the applause which he knew he should elicit. This was his last appearance at Drury-lane. Amongst acquaintances and patients at the time new referred

Amongst acquaintances and patients at the time now referred to was Dr. Magtim, then one of the editors of the Simadard, but newly established. Maginn, the most versatile of writers, but newly established. Maginn, the most versatile of writers, one called a kind of "gin-and-water face," so far as colour went, but his features were regular and his eye expressive, his forehead broad and expanded. He would sit in company drinking his "gin twist," no matter how many glasses. He soldom spoke, but had a habit of biting abort pieces of straw by the hour together. He professed to be Conservative, but Chatterfon, that a man "ought to be able to write as well on one side the question as the other." At all events, he carried out this doctrien, for he would write a leader in the Simadard one evening, answer it in the True Son the following day, and abuse both in the John Bull on the ensuing Sunday. and abuse both in the John Bull on the ensuing Sunday. one time editor of Fazer's Mosazira. "Homest Jack Lawless" was an occasional patient during the time of the framous debates in Parliament, just before the carrying of the Bull for was an occasional patient during the time of the framous debates in Parliament, just before the carrying of the Sim Grant of the Changarian of the Changaria

own Profession. The men whom we chiefly called in consultation occupied at the time prominent positions, but some of them contributed little or nothing to the literature of the Profession. Honoratus Leigh Thomas, councillor, examiner, and twice President of the Royal College of Surgeons, was often called rreascent or tae Moyal College of Surgeous, was often called in by us. He was a very poor Surgeon, very undecided, and avoided operation, but he was a shrewd Fractitioner in Medical cases, to which his practice was mainly limited. He was familiarly known as "Dr. Thomas," and had a very extensive practice amongst the middle classes. He had in early life been practice amongst the manne chasses. He had in early are been a pupil of the celebrated Cruikshank, whom he afterwards assisted in his anatomical demonstrations, and lived with at his house in Leicester-place, Leicester-square. He subsequently married a daughter of Cruikshank, and succeeded his fathermarried a daugner of Crundenan, and succeed his lather-in-law as tenant of the house in Leicester-place, in which he practised for nearly half a century. Mr. Thomas, as far as I know, made no contribution to his Profession. He was courteous and able as an examiner, dignified as president; but the had no genius; there was nothing suggestive, nothing of the about him. He was perfect in the sick-room; cool, attentive, kind, and in Medical cases an excellent Practitioner. attentive, kind, and in Medical cases an excellent Practitioner. Personally he was the desu-ideal of a Physician. Attalland selender form, slightly bowed; a face sedate but kind; a forchead, though somewhat tended voice. He dressed truly "Pro-fessionally"—black dress-cost, waistcost, and truuers, black silk stockings, and pumps; a spotless white cravat encircled his long neck; and a massive chain, with seals and key, dangled from his watch-pocket. As I have said, he assisted Cruikshank in his anasonical bectury; but I am not aware that he was ever his anatomical lectures; but I am not aware that he was ever connected with any Hospital or Dipensary. He seemed to have a dread of operative procedure, though by no means in his palmy days a bad operator; but he would delay and delay Sur-gical interference until his patient, thred out, would consult some more decided Surgeon. He had a very extensive prac-tice amongst licensed victualiers, and probably attended more members of that craft than any other Surgeon of the pressur century. In midwifery cases we were in the habit of calling in Merriman and Golding. Merriman, like Thomas, chiefly attended the middle classes; and amongst them he was popular, attended the middle classes; and amongst them he was popular, as he deserved to be. He was originally in general practice, and at a mature age became a Licentiate of the College of Physicians. He was a man of some literary ability, and a consummate obstetric Practitioner. He was in every way fitted for that department of the Profession. He was gentle, decided, and an excellent operator. In person he was of the middle height, with a fine benevolent expression of countendecided, and an excellent operator. In peason to was a smalled height, with a fine benevolent expression of countenance, a high and expanded forehead. He were gold spectacles, and the contract of the dressed, not according to the time, as a Medical Practitioner. He wore a blue cost with brass buttons, and generally and manners a fluished grantleman. He never took a fee from a governess or a curste. I wrote his life for the second edition of the "Lives of British Physicians," bullshed by Wm. Togg. It may not be out of place here to refer for a moment to the incomes of celebrated Medical Practitioners. These, we believe, are usually much overrated. In almost the last conversation I had with Dr. Morriman at his house in Brook-street, this subject was touched upon. "I do not believe," said Merriman, "in these controus incomes. I have had as large, perhaps a larger, practice than any obstetric Physician of the time, and in my most properous year I never made more than £4000."

provided state any consetting raysacian of the time, and in my most prosperous year I never made more than £4000."
Brodie in his zenith never exceeded £13,000 per annum, and though Sir A. Cooper is recorded to have made in one year the great sum of £24,000, it was acknowledged by him to be the great sum of £24,000, it was acknowledged by nin as of quite an exceptional amount. His average income was probably about half that sum. But it must be recollected that he was quite an exceptional Surgeon—on man was ogenerally consulted; no man ever received such large fees for operations. Abernethy, I believe, never in one year reached £10,000, and Liston's income never amounted to £7000. These appear small compared with the incomes of great lawyers; but it must be remembered that we are only paid for what we do, must be remembered that we are only plant for what we do, not for what we we are retained to an and. Ellistense, we only sionally consolited. He had just made himself famous by his sionally consolited. He had just made himself famous by his sionally consolited. He had just made himself famous by his sionally consolited. He had just made himself famous by his sional for the consolited of the his consolited his consolited his consolited himself famous his consolited himself and his consolited himself and his consolited himself him no such success. I shall have to speak fully of Elliotson in a subsequent article, and need not enlarge upon his career at this time. In these days, when almost every man is a lecturer or "author," and publishes his narratives in the journals or in monographs, it may be worth while to refer my readers to the models of contributions to the practice of Medicine published by Elliotson. It is refreshing in these days to go back forty years to look at them. There they are all simple matter of fact, with common-sense deductions; not as now, pages filled with

Funcies to show the stretch of human brain, Mere curious pleasure or ingenious pain."

Mere curious plassure or ingenious pain."
The great evil of the present day, guesd the writers and authors of the Profession, is the voluminous (a) nature of their contributions. This is an ertl wich seems on the increase. Can it be abated? We fear not. "Voluminous" writers should remember that their lumorbations are read in an inverse ratio to their length. Facts can be stated briefly; the brieflet, so long as they are clear, the better. Sir Samuel Romilly contended that no speech of an advocate in the Court of Chancers and exceed tender winning in length. Take a Exemily contended that no speech of an advocate in the Court of Chancery need exceed twenty minutes in length. Take a volume of the Transactions of the Medico-Chiruryical Society fifty years since, and compare it with one of modern date. The difference is striking, but not pleasant to us. Yet who shall say the late volumes are to be compared in interest and value to the sarlier ones? When Advy Volume Takey and Takey and Takey and Takey and Stanley at St. Bartholomew's; Brodie, Keste, and Chambers, at St. George's; Str. C. Bell at the Middlesex; Advocated to the Compared to the Transaction, we had none of the windy reports that to archive the Compared to the Transaction, we had none of the windy reports that to archive the Compared to the Transaction, we had none of the windy reports that to archive the Compared to the Transaction, we had none of the windy reports that to archive the Compared to the Transaction, we had none of the windy reports that to archive the Compared to the Transaction, we had none of the windy reports that to archive the Compared to the Transaction, we had none of the windy reports that to archive the Compared to the Transaction, we had none of the windy reports that to archive the Compared to the Transaction, we had none of the windy reports that the Transaction, we had none of the windy reports that the Transaction, we had none of the windy reports that the Transaction, we had none of the windy reports that the Transaction, we had none of the windy reports that the Transaction, and the Transaction of t

who neglect the prominent landmarks for taking useless sound-ings, and making absurd calculations of no use to anyone, and liable to run the unluoty ship on a rock."
It is related that Blake, the most imaginative of painters— Fusell himself not excepted—once saw the ghost of a fles, and stetched it. Had he belonged to the "pre-Raphacitic School" of the present day, it is probable that he would have made the "ghost" merely a feature. of the present day, it is probable that he would have made the "ghost" merely a feature in an elaborate production of his casel. Perhaps he would have placed it on a rich blanket, or a superb bed, in a guadily-furnished room; every thread of the blanket, every line of the bed tick, every object—even the most minute-leaborately "worked-up." the "poor ghost," like that of Hamilet's father, being invisible, or only seen by the gifted eye. What would have been the result! I fine great sketch of the flea, so wonderfully portrayed by the painter, would have been "nowhere." Writers on Medicine and Surgery would have been "nowhere." Writers on feet in fact." and would have been "nowhere." Writers on Medicine and Surgery of the present day get hold of the "ghost of a fact," and they theorise upon it to such an extent, and with such elaborate minuteness, that we are mystified, and looking for the meaning, as we do for that in Gratiano's talk, find to our cost that

it is "an infinite deal about nothing." Many Practitioners of the present day are not contented ith pursuing the "even tonour of their way" to eminence with pursuing the "even tenour of their way" to eminence and success. Each and everyone is anxious to be original and and accesse. Each and everyone is anxious to be original and adiscoverse. Thus, one identifies his name with some therapeutic "discoveries"; one finds the dung of a toad, judiciously administered, an infallible remedy for consumption; whilst another declares, from a "large experience," that the "thin white curd of assess' milk." is an universal panances. Young Surgeons who have yet to "gain their spurs" "invent." all gunshot would, may modestly give to the Profession an improved bullet extractor, to be procured only of Weiss or Coxeter. Another, who probably has never performed ovariotomy, introduces a new "clamp," or something else, to "arrest hemorrhage"; whilst another, less ambitions or more "modest," contents himself with parading a new kind of tweezers for Richard Pinchard was a Physician in extensive practice in Bloomsbury-square. He was one of the "old school," He had no theories—

had no theories

"A cowalip on the river's brim A yellow cowalip was to him, And it was nothing more."

But he was a shrewd, common-sense Practitioner, and successful

(a) When Sheridan was making his great-speech against Warren Hassel and the same of the sa

too. He had great faith in medicines, and always prescribed with a definite object-"the remedy for the disease a tall, big man, with a common-sense expression of face, which

a tall. big man, with a common-sense expression of face, which at once inspired the patient with confidence in him. At the time referred to, the late Dr. Spurgin, who unfortunately fells wietim to the graveth, and a large practice, for the property of th

but certainly the laziest, Surgeon of his day. He was a man of consummate ability, and of large resources in difficult or dangerous cases. But his besetting sin was idleness, and this he carried to an extent that seems almost incredible. I believe that he never was known to keep an appointment in his life. To be an hour or a couple of hours beyond time was nothing to To be an hour or a couple of hours beyond time was nothing to him, but he has actually been known to forget the day, and go the next; and on one occasion it is positively stated that he was a full week in arrear, having misslaken his appointment by seven days. It may readily be supposed that White never had a large practice, though he might undoubtedly have been fully occupied had ho been a man of business. But to go round the wards of the Westminster Houpital when he did go round he wards of the Westminster Houpital when he did go round the wards of the Tourist and the second of the second part of the wards of the process of the second of the part of the wards of the process. I see the second of the pro-tains a second of the second of the second of the second the middle height, stont, firmly and rather clumsily built. He was the subiect of cout, and usually walked slowly and with was the subject of gout, and usually walked slowly and with difficulty. He had a large head, a high and capacious forchead, with an eye of surpassing intelligence. His mouth was large and masculine, but his chin wanted that full development which indicates firmness and resolution. He spoke slowly and deliberately. He dressed in black, somewhat slovenly, but always clean.

Golding, of whom I spoke just now, was the very opposite of Merriman. He lived in St. Martin's-lane, in a house taken down when Cranborne-street was formed. It was one of the old-fashioned houses, with several steps leading up to the front door. Golding never had an extensive practice, but he was undoubtedly a man of ability. He was quick, decided, and self-opinionated. He went to his work like a workman, and was deficient in that gentleness which characterised Merriman. He was a man of great industry and persoverance. His founded Charing-cross Hospital, which was originally a dispensary in Wiltenstree. Even after an attack of apoplexy, ending in purtial paralysis, with which he was afflicted shortly after middle life, Golding maintained his rigour and determination. He was a spare man, somewhat above the middle height. He had a sharp, shrewd expression of countenance, a sagacious blue eye, and head formed less for reflection than action, more for combativeness than for emotion. He was an upright man, but somewhat crotchety, and rather too self-willed to be called amiable. John Painter Vincent was occasionally called in for his opinion. He resided for many years on the north side of Lincoln's-inn-fields. Vincent was a peculiarly shy man, but was not without ability. People who did not understand him thought him slow and dull, but he was a minute and careful observer, but he wanted manner. He failed to impress his patient, at first, certainly, with an idea of his real power. Those who knew him better had great confidence in him. In proon, he was just above the middle height, walked quickly and somewhat clumsily. He had somewhat clumsily. He had somewhat of the appearand and manner of a lawyer's elenk hastening to court. He dressed rather shabbily in black. His face denoted no great power. His features were regular, and he had a good forelead, but he never seemed to be on good terms with himself, and consequently was often not on good terms with others. Dr. Darling, who had been in India, had a tolerable practice amongst old Indians. He lived on the cast side of Russell-square. He was a man of very limited ability, and his resources in the treatment of disease were seanty. He was of the old school of blue pill and black draught, and treated most cases as He was a man about the middle height, and would ordinarily be taken for a Methodist parson. He dressed in black, with a white cravat. His countenance had a little touch of Mawworm, but he bore a character for kindness and liberality.

He did nothing for the literature of Physic. These were some amongst the large number of consulting men then in full practice, but some of whom died and "made no sign." I have purposely omitted to notice soveral, who will be referred to in subsequent articles.

PROFESSOR FAYRER, M.D., C.S.I., ON FIBRINOUS COAGULA IN THE RIGHT SIDE OF THE HEART

IN CONNEXION WITH MALARIA.

THE books that have been written on the non-existence of phenomena form a curious part of literature, general and Professional. Poor Dr. M'Laughlin wrote on the non-existence of syphilis; there have been books on the non-existence of hydrophobia, and on the non-existence of malaria as a specific poison; but, whatever the nature of malaria, there is no doubt as to the effects. Amongst these effects, Professor Fayrer, whose opportunities of studying disease in its most gigantic forms at Calcutta seem to dwarf the clinical experience of most European Surgeons, enumerates that coagulation of blood in the right cavities of the heart with which we were made familiar some years ago in this country by Dr. Richardson.

"There is one result of blood poisoning on which I have frequently remarked, in former communications to the Indian Annals and other periodicals—the rapid formation of firm fibrinous coagula in the right side of the heart, and the consequent apnœa, which in many cases proves rapidly fatal. I do not now offer any opinion on the cause or nature of the condition of the blood, which occasionally in Surgical patients, as well as those suffering from exhaustive diseases, determines the formation of these coagula, which either destroy life, or, the formation of these coagula, which either destroy life, or, having endangered it, produce subsequent evidence of throm-bosis and embolism. I am quite aware that it has been ad-vanced that these coagula form either during dissolution, or in that advanced stage of disease (such as croup, diphtheria, cholera), which is the precursor of death; or it may be as one of the latest vital changes in pyemia itself, but such is not, I am satisfied, always the case. Over and over again I have of the latest vital changes in pryemia itself, but such is not, I am satisfied, always the case. Over and over again I have seen patients who were not in this condition, and for whom there were not in this condition, and for the condition of the condition of the condition, and for the condition of the condition and pnlmonary obstruction, and sank in a complete state of and philing and within a few hours. The post-mortem revealed what had been diagnosed during life—plugging of the right cavities of the heart and of the pulmonary artery, with firm adherent fibrinous congula.

The case referred to in the foregoing extract was as follows: "A Bengalli student, named P. D., aged about 20, was admitted into the Medical College Hospital on April 15, 1870, suffering from the results of a contusion on the right leg. He suscering from one resume or a consistent on no right reg. He asys that he tripped and fell, eight days before admission, over some bricks, and thus bruised himself, but was not seriously hurt. The part became painful, the leg ewelled, and being unable to walk, he came to the Hospital. He had been suffering from frequent attacks of malarious fever and enlargement of the spleen for the last five months; his appearance confirmed this statement.

"The surface of the contused and abraded integument had been weeping a bloody sanies for three days, and for four days he had been unable to rise from his bed. were ordematons. The bruised portion, w The leg and knee The bruised portion, which was just below the knee-joint, looked as though it were becoming gaugrenous; the xnee-joun, locon as mong n were occoming gaugrenous; the temperature was low, and sensation diminished, the limb generally painful. He was depressed; pulse small and feeble. No diarrhose. He was ordered stimulants and quinine. Carbolic oil dressing was applied to the injury.

"He remained in this state for two days, during which time the injured part became gangrenous to the extent of about two inches. The respiration began to be hurried on the 18th; slight return of fever in the evening, but temperature in axilla not above 99.4°, generally much lower. Ammoniacal stimu-lants were given both by enema and in the usual way, but there was no improvement; the respiration became more gasping and hurried; no marmurs were heard over the pulmonary and nurried; no margars were nearl over the paintonary artery; the heart's sounds became more feeble, the respiratory sounds gradually diminished, and in a state of extreme eardiac apneas, he died at midnight of the 20th.

"The post-mortem examination was made on the 21st. The liver was of normal size, but discoloured from commencing decomposition. The spleen was much enlarged. The kidneys healthy. The lungs were somewhat congested hypostatically a portion of the lower lobe of the right lung was consolidated On opening the heart a firm fibrinous coagulum was found extending from the right auricle, where it was reddish, into the ventricle, where it was straw-coloured, thence firm and fibrinous into the pulmonary artery and its minute subdivisions; a similar one was found in the left cavities, extending into the sorts. The integument was gangrenous for several inches down the leg. The knee-joint was not compromised, and on being laid open its structures were normal.

"There was certainly not sufficient in this case, in the mere gangrene of the integument of the leg, to account for death in an ordinary individual; but in a person suffering from malarious blood poisoning and enlargement of the spleen, it was more than sufficient. Probably in no condition of disease is the formation of fibrinous coagula more likely to occur, on is the formation of normous congue more intergous contents to see the least disturbance, than in splenic or malarious cachexia. In a marked case, such as this, where the splene was four or five times it to natural size, it may be said that there is nothing remarkable in the termination of the case; for do we not set it almost daily in the cases of cancrum-oris, singinging ulceration, and the case is the case of cancrum-oris, singinging ulceration. and necrosis that are unhappily so common in Bengal, and and necrosis trait are unnapply so common in Bengal, and probably in other localities wherever that condition called 'malaria' is rife? The imperfect condition of the blood-making organs, and the improvershed blood they elaborate, are amply proved and demonstrated in the amenia and in the effect, trait each of the condition of great tendency to disintegration and death of the soft tissues and bones; whilst the evil results of hyperinosis are seen in the limbs or other parts of the body, gangrenous from embolism when it occurs in the systemic or arterial circulation, and in the codematous or gangrenous limbs also, when it occurs in the the determatous or gangrenous imba also, when it occurs in the venous system or, still worse, in the multiple deaths of portions of the viscora which are so frequently seen in the so-called pyramic conditions generally met with after wounds and injuries, though by no means unfrequently, idiopathically. But it is the formation of the fibrinous congula at the very

fountain-head, in the cardiac cavities themselves, that I would especially notice, and particularly that very fatal form of it which, occurring in the pulmonary side of the circulation, is so frequently fatal to life. I have frequently called attention to the subject, as one of great importance in a Surgical point of view; for it is not only in cases where an enlarged spleen renders almost any operation impossible, and causes almost any wound to be fatal, but in many others, whether of wound or injury, where there is no obvious disease of the spleen, and where all seems to be and to promise well, that it may and often does supervene and rapidly carry off the sufferer. The condition is one most common in exhaustive diseases, and it is, no doubt, often one of the latest pathological phenomena manifested by the moribund. But it is more than this—for, as manifested by the moribund. But it is more than this—for, as I have frequently said, it may set in where there is no appearance of exhaustion, when repair and nutrition are going courty off the patient, whose body after death presents no solution of the cause of death beyond a firm white adherent clot in the right auriele, or ventricle, or it may be just at the estimated of the pulmonary actery, which is indeed the jenue site. "This couldint on filtrinous congulation taking place in it.

right side of the heart or in the pulmonary artery is one of the dangers that the subject of a Surgical operation, wound, or injury has to encounter, and not merely as the last act of a series of pathological processes—the result of exhaustive or prolonged disease—but an original and dangerous consequence of some blood change that has taken place as a result of the operation. What the nature of this change may be I am uncertain; it is an imperfect, or rather a post-perfect, condition that may perhaps arise out of the presence of matters retained in the blood that should have ministered to the natrition of the part removed, in cases of amputation or ablation of parts of the body; a condition somewhat analogous, perhaps, to the retention in the body of a secretion that should have been eliminated, or, in cases were no removal of parts has occurred, to some disturbed condition of innervation, in which the blood itself is imperfectly elaborated, and rendered prone to this fibrinous coagulation. I have a strong suspicion that climatic influences are not without force in originating this dangerous state. In Bengal, all are more or less under the influence of malaria. It is true, happily, that in a large majority of persons its effects are not generally perceptible, and malarious or splenie cachexia, though common, is not universal; still, no doubt, all are more or less affected, and, as I have on another occasion remarked, an attack of ague and

rever is prepared to common ways in which it expresses itself.

I do not wish it to be understood that I regard this as altogether due to a malarious condition of the blood. I as altogether due to a malarious condition of the blood. I know that, although it may not have been noticed as a result of Surgical operations, Dr. Hebardson long ago pointed out its tendency to occur in exhaustive diseases, under circumstances which, however low and depressing, were not, at all events, surgestive of what we understand of malaria in this country, nor can at help thinking that a protoget change as an example does may have somethine to say to this also."

capacie of producing so many important changes as manuscadoes may have something to say to this also."

The next is a remarkable "Case of recto-vesical fistula, vesical calculus, malarious fover, death from pysemia, and the formation of fibrinous coagula in the right side of the heart."

"Conductor H., aged 44 years, was admitted into Dr. Fayrer's wards of the Medical College Hospital, on December 16, 1868, suffering from the effects of a severe accident which happened to him eight months previously at Darjeeling. Ho was, notto him eight months previously at Darjeening. It was now-withstanding all the suffering he had undergone, a stout, healthy-locoking man, apparently of steady and temperate habits. The history of his case, up to a short time before leaving Darjeeling, is so well described in the following state-

ment that I give it in detail, as it came to me :ment that I give it in detail, as it came to me:—
"Conductor H., aged 43, and twenty-six years resident in
India, of temperate habits, generally enjoyed good health.
On the night of May 15, 1868, about 10 o'clock, was returning
to his home, at Jeliapakar, Darjesling, but owing to the darkmean missed his way and slipped down the hall-side and
mean missed his way and slipped down the hall-side and
mean missed his way and slipped down the slipped and
missed the slipped of the slipped from the slipped and
missed the slipped from and penetrated the bladder; through fear that if he moved he might fall down a precipic, he remained where he fell for several hours until he could see his way home, and although arrived at three o'clock the following morning. Assistant-Sur-geon M — reports that he visited him at nine o'clock the same morning, and found him in great suffering. There was a large irregular wound in the fold of the nates at right side, about one and a laif inch from the suns. Fatient stated that he had been to stool, and passed some fæces and bloody urine through the wound, causing much pain. Pulse 100° and small, and he seemed greatly prostrated and despondent. He was at once placed in a warm bath, and the parts affected well fomented and cleansed. He was again visited at 1 p.m., and complained of tension and pain in the gluteal and pubic regions. A No. 10 silver catheter was passed, and about 5 ozs. of bloody urine drawn off. He was again placed in a warm bath, and urine drawn off. He was again placed in a warm bath, and dret half-an-hour an opiate was given; he was put to bed, rest enjoined, and tea diet ordered. At 6 p.m. he expressed himself very much easier; he had passed a quantity of urine through the wound; no pain complained of, with the exception of a little tenderness in the hypogastric region. Pulse 8s' and soft; skin moist. A star moist. A star moist. A star moist. A star moist. between the folds of the nates, and a draught, containing tr.

hyoscyamus, ordered at bed-time."

We omit the details of the treatment, under which he recovered to a considerable degree. On December 16 he was admitted into Dr. Fayrer's wards in the General Hospital, Cal-

admitted into Dr. Fayrer's waters in the General Rospital, Cat-cutta, with symptoms of stone in the bladder.

"On admission," says Dr. Fayrer, "into the College Hos-pital, he was apparently in fair general health, but he com-plained of an incessant desire to pass water, with much pain at the neck of the bladder. The long and tedious journey had the neck of the bladder. He long and techous journey had fatigued him and irritated the parts. He was ordered sedatives, demulcents, and a mild aperient as his bowels were confined. After rest and quiet for a short time, I passed a full-sized catheter into the bladder, and detected the presence of a calculus.

"The recto-vesical fistula was still unhealed; there was a rominent thickening at the orifice of the fistula where it opened into the gut; the ischio-rectal wound had quite healed; the cicatrix showed how serious it had been. The urine was slightly ceatrix showed now serious it mad occin. And urine was suggesty acid; sp. gr. 1018. A deposit of mucus, occasionally slightly mingled with blood; no other abnormal condition of urine. On January 7 the lateral operation was performed, and a friable calculus removed, which broke down completely under the forceps; the débris weighed about 140 grains. There was very little hemorrhage and no difficulty in the operation, which was performed in the usual way. From this date until Feb-ruary 15, when his friends removed him for change, he was not well; he had frequent feverish attacks and diarrhosa; on January 11 especially, he had a sharp attack of ague. This was followed on the 12th by pain in the right testicle and cord. On January 30 the right incumilar region was swelled and pain-ful. On February 2 an incision was made into the right in-guinal canal, and a deep-seated collection of pus evanuated. The lithotomy wound was perfectly healthy, and he was free from pain in the perincum and about the bladder. After the incision he was relieved, and appeared to be doing better; the lithotomy wound was rapidly healing; the criter still flowing by the flatch, as well as by the urestrate of the perincum and th

"The treatment had been adapted to the symptoms: — Quinine, as the had been much exposed to malaris on his journey; astringents to check diarrhoes; opistes, when necessary, to give rest; and a nourishing dick, with a moderate quantity of wine. Alkaline and diuretic remedies, when the urine was

more acid and irritating than usual.

"He returned to Hamilton Pebruary 17, having become much worse. He has had berere rigors and fever, and when readmitted was very much prostrated. His voice was low and depressed, pulse feeble and rapid, respiration gasping and hurried. Stimulants and sinapisens were ordered; quinine with hot brandy-and-water was given frequently.

and orange-ance-water was given requestly.— Azillary tem-"February 18.—The Hospital record says.— Azillary tem-"February 18.—The Hospital record and the same state of the same dark-coloured fluid; passed some turbuld urine; motions loose and dark-coloured fluid; passed some turbuld urine; motions loose and dark-coloured. The breathing became more hurried and gasping; intense cardiac spaces preceded death, which occurred on February 18, at 2½ am.

"The body was examined the following day. Thorax:

"Ing much congested posteriorly; no pyremic patches; no
Image much congested posteriorly; no pyremic patches; no
Ilicart laid open: Firm decoloried dots in right cavidies, ratending far into the ramifications of the pulmonary artery. No
other abnormal condition in the thorax. Abdomen: Liver considerably enlarged; contained very numerous pyremic patches
of the gins of peas; these so-called abscesses were patches of
dead liver-tissue, around which no suppuration had as yet
occurred. They were simply dead tissue, with puriform decomposed fluid in their interations. Sphen congested and softened,
congested and thickness. Lithotomy wound heald. Rectowords and the confidence of the considerable thickening and ablesion about it thicknesd, and
considerable thickening and ablesion about the parts generally.

"This was a exceedingly interesting as well as instructive case from the beginning. His recovery from so grave an accident through the glutcal region and rectam into the bladder night well have proved rapidly fatal; the result wonderfully illustrates the reparative power inherent in the constitution of a man in the vigour of health. He had so far recovered in about seven months as to be able partly to resume his duty. The formation of the calculus may be accounted for, no doubt, in the condition of the bladder injured by the wound; a nuclean having formed, determined by the roughested and irregular surface of that part of the bladder where the fatula opened, perhaps by the entry of some hard substance from the rectum, cultum detected on his admission into the Medical College Heapital. No part of the stake with which he was injured could be found in the bladder; though carefully looked found in the order to could be found in the medical college them.

"His subsequent condition was not less remarkable. There can be little doubt, I think, that the train of unfavourable events which preceded his death were mainly due to the influence of malarious poisoning to which he was exposed on his way to Calcutta from Darjeeling in December, a month when some parts of the Tera are most dangerous. The fever that supervened after the operation was most probably of malarious origin, and the blood already thus poisoned was more malarious origin, and the blood already thus poisoned was more distributed by the control of the december of of

patient to yield to pysemic influences, and finally accelerated the fatal result by determining the formation of fibrinous coagula in the right cavities of the heart."

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-poz occurring in the Public Practice of the undermentioned Districts.

	_	No	o of C	ases w	reek e	nding	
Districts.	Mar. 4.	Mar. 11.	Mar. 18.	Mar. 25.	April 1.	April 8.	April 8. Sent to Hospital
West-		-		_		-	
Chelsea	10	6	6	5	6	P	-
square . St. Margaret and St. John,	16	7	19	10	11	12	1
Westminster	30	27	P	P	P	9	
St. James, Westminster . North-	3	3	8	4	4	8	4
St. Pancras	62	69	63	65	44	9	
Islington	62	23	34	49	26	45	15
Hackney	36	41	31	24*	29	31	29
City of London	22	17	13	13	13	7	1
St. Giles-in-the-Fields .	6	10	2	5	8	P	_
Holborn	2	3	3	2	3	9	=
St. Luke's	20	27	18	12	P	P	-
Whitechapel	34	32	1.5	33	15	2	_
Poplar	9	9	P	1	11	P	-
St. Mary, Newington	16	19	2	28	23	27	22
St. Olave, Southwark .	2	9	1	11	5	3	5
St. George-the-Martyr,			1	1 i			
Southwark	?	17	5	. 9	9	19	13
Bermondsey	15	?	9	P	?	2	-
Lambeth	12	28	33	33	17	32	39
Clapham	28	17	29	22	13	40	24
Battersea	?	13	2	1	?	?	-
Wandsworth	4	9	3	5	10	13	1
Putney		1	P	9		9	_
Streatham	1	P	2	3	3	4	1
Camberwell	26	14	13	4	4	9	_
Greenwich	2	1	9	-		-	_
Lewisham	1	16	2	P	2	4	1
Plumstead	1	1	4	6	4	19	1

· Return imperfect.

SCOTCH MORALITY.

(From an Anglo-Scottish Correspondent.)

Soam of our contemporaries have been greatly exercised of lateon a certain report incidentally dealing with Scotch mortilator or rather, perhaps, we should say immorally; but it is a thing worth notice that in one respect, and in one respect only, can such a term be applied to the population generally—a population unusually quiet, well-behaved, and well-cluested. In the counties where illegitimacy is most prevalent there may be said to be no crime, at least by the indigenous population. Certainly a criminal chase does not exist. But this is not the only peculiarity. The marriage vows are faithfully observed; infidelity to them is rave; divorce is almost unheard of, or heard of only to be socuted and reprobated—nay, more, women who have been the mothers of illegitimate children, being left widows, remain respectable and well-conducted.

It is quite clear that the peculiarity attaches only to young unmarried women and unmarried men of the same age, and that it is not limited to any one part of the country, although more prevalent in some parts than in others. It is useless, therefore, to attribute illegitimacy to what is not universal. Thus, in some of the replies given to the Commisuniversal. sioners we find ample illustration of the ridiculous effect of assigning to local causes universal influence. Imagination, also, would seem to have something to do with these replies, Imagination, one gentleman gravely asserting as the cause of this all-prevalent illegitimacy the oatmeal of the country, which, said he, contains an unusual quantity of phosphorus. A similar and equally unfounded explanation has been given of the focundity of fishunfounded explanation has been given of the tecundity of ma-eating tribes. Another favourite theory is, that it is the bothy system. If so, illegitimacy should be most common where bothies most abound; but it is not. Again, they say the feeing markets are at the root of the evil. If so, as feeling markets occur only once in six months, the bulk of the illegitimacy should come in certain months, and the others should be com-paratively free; but it does not. In short, the cause is such as not exactly to lie on the surface, and to be better appreciated at a distance than at hand.

The life of an unmarried Scottish farm-labourer is not a very The life of an unmarried Scottish farm-labourer is not a very pleasant one: his work is hard, his fare unwarjing. He is allowed so much oatmed (always more than he can consume by himself), and so much milk fresh from the core. His com-mon fool is bross. At meal-times a large iron pot filled with water is put on the hearth and made to boil with brushwood. Whist this is going on, a quantity of costneal has been placed in a wooden bord, and spirilded with sait. When the water bells, a sufficiency is thrown on the meal to seald it, and reduce it to a paste by stirring. A quantity of the strong rich milk is poured on the whole, and an exceedingly nutritious mess is the result; but used day after day it is any to pall. Morning and noon, and very often, also, at night, this is repeated, with an occasional change, when oatmeal has been sold to buy wheaten bread. His lodging is of the poorest, always of the roughest; and yet there will dometimes be found in it works both on philosophy and history, thengh it must be confessed between the confessed of the c boils, a sufficiency is thrown on the meal to scald it, and reduce natural caution which induces the men not to take such a step until they have saved up money to buy furniture, and make a fair start in life.

On the other hand, female servants are divided into two groups: a certain number, working at out-door farm labour, become hard and strong like men, and in many respects act like them; a certain number are employed in domestic service, and over these a somewhat stricter control is maintained. Both sets ordinarily take their meals in the farm-kitchen, and, if there is no female bothy, aleep in the farmhouse. Like most other women, both sets look forward to marriage as a settlement in life; the question is, How is this to be brought about?

In dealing with this subject, two things essentially distinct

have been hopelessly intermingled-these are immorality and illegitimacy; for it is perfectly possible that immorality may abound, and yet that the rate of illegitimacy may be small. Speaking broadly, it may be said that in a given country one or other of three things will prevail-early marriages, illegi or prostitution in one or other of its forms. In Scotland, early marriages are not the rule; except in the large towns, prostitu-tion is not common, and in these it does not prevail to the extent it does in England, still less as on the Continent; illegitimacy takes their place, but it is not on that account to be supposed for one moment that immorality is more prevalent in Scotland than in many parts of England; indeed, it is far

It is, we think, in the laws and customs of the country that the prevalence of illegitimacy is to be sought. In the laws, because marriage at any time legitimises all children born before wedlock, and an old offender against the laws of morality may hold her head as erect as any, and so may her offspring, the moment the marriage ceremony is gone through. It is the chance of this whitewashing process which lies at the root of much of the evil, although it must be confessed, in accordance much of the evil, atmongs it must be consessed, in accordance with the old rule that familiarity hreeds contempt, the offence itself is not looked upon in any other light than venial; in abort, it is considered a misfortune to which anyone is liable. But it is also plain that a portion of the evil is due to the social

But it is also plain that a portion of the evil is due to the scenar habits of the people, and especially to that inveterate tendency which Calvinism induces to keep a fair face before one a neigh-bours. The secrecy with which everything is habitually done, and the stoical training to keep hidden everything like feeling or and the stoical training to keep hidden everything are seeing or emotion tell strongly in sexual as in other relations. A man is ashamed to let it be known that he admires a certain person, consequently he visits her by night. The long dark evenings, which can only be spent in the unsavoury bedties, encourage

the same tendency. A man, after dozing for an hour or two, wakes up inclined for an excursion, and forthwith, accomwakes up inclined for an excursion, and forthwith, secon-panied by one or more of his companions, he starte off on a visit to the "lasses" of some farm in the neighbourhood. As a rule these are nothing loth—for has it not been the rule with a rue tiese are nothing inti-ror has it not seen tour rue was their fathers and mothers before them:—and gladly receive their visitors; but where? They have no other place save their bear room, and the only access to that is frequently by the window. An alarm is raised, escape is impossible, hiding beneath the beddothes or beneath the bed is the only resource; and so, the ice once broken, the rest follows.

Furthermore, to these women an illegitimate birth seems the only sure road to matrimony; it is true they may be deceived in that, nevertheless they will risk it on the chance of marriage condoning all, and they thus acquiring that settlement they desire. As we have said, the tendency on the part of farm-labourers is not to early marriage, but with the prospect before them of being saddled with an illegitimate child, and the scanty comforts they enjoy being thus seriously contracted, they resolve to make the companion of their deed an honest woman, and so everything is soldered up. But this, again, tempts others, and the whole thing is so common as to be generally winked at Till all these things are changed, illegitimacy will prevail in Scotland.

REVIEWS.

Pauperism and the Poor-laws: The Lectures Delivered in Edinburgh under the auspices of the Chalmers Association, 1870. Edin-burgh: Seton and Mackenzie; London: Whittaker and Co. Pp. 191.

The Scottish Poor-laws: Examination of their Policy, History, and Practical Action. By Scottus. Edinburgh: Edmonston and Douglas. 1870. Pp. 227.

These two volumes treat of subjects possessing unusual interest at the present moment. Such a field as Scotland pre-sents to the Poor-law reformer is, from its moderate dimensions, clearly and readily mapped out, and offers great facilities for a tentative advance towards theoretical perfection; while results can be, and have been, measured and weighed in a manner characteristic of the keen insight of our northern neighbours.

Just now we seem to be approaching what may prove the Just now we seem to be approaching what may prove de-greatest sanitary reform of our time, in the proposed consolida-tion of powers at present divided between the Foor-law Board and the Home Office under one "Minister of Health and the Foor." And in all impending discussion of these recom-mendations of the "Royal Sanitary Commission," we venture to say that no one who would master the subject can afford to to say that no one who would master the subject can about we neglect the two books above mentioned. Of these, the former may be described as a collection of essays with a general tendency towards severe condemnatory criticism of the existing Scottish Poor-laws; the latter as a guarded and temperate essay in their defence. In the former, which is a collection of lectures delivered for the "Chalmers" Association, the plan lectures delivered for the "Chaimers Association, top pans so ably developed by that eminent man, of systematic, unpaid investigation of each case of poverty, is warmly advocated by Dr. Alexander Wood, and pitted against the "Bumble" system of wholesale relief with its attendant crils. Dr. A. Wood s classiwholesale relief with its attendant erils. Dr. A. Wood's classification of the poor, according to the causes—moral and physical—of their distress, and the varying treatment required for each, reads not milks a page of the "Republic" of Plato. As alone an distinguish between the great classes of "unable to work" and accordingly, the "necessity is recognised of having the Medical element largely infused into any system of efficient inspection." Now this is, it will be observed, in principle the very combination of Health Officer with Foor Officer from which the Sanitary Commission

Omer with root Omer from which the Sanitary Commission starts as the foundation of the proposed reforms. It is to be noted that along with a development of the opposite view in the distinctively legal arguments of 'Scotus,' the new sisty for very numerous practical reforms is freely admitted, and that "the Medical officers should be placed on an equally independent footing with the inspectors" strongly asserted.

The subject of both works is a provision for the poor—rather than for the sick—of the community; but day by day it is becoming clearer that our Executive must deal with these classes as inextricably combined, and must do so to a great extent by means of Medical men. These essays, therefore, carefully written, and with the best intentions, will be read with all the more advantage and pleasurable interest by our Profes-

sional brethren.

GENERAL CORRESPONDENCE.

POOR-LAW MEDICAL REFORM. LETTER FROM DR. JOSEPH ROGERS.

[To the Editor of the Medical Times and Gazette.] Sm,—Will you permit me, through your columns, to inform the Profession that Mr. W. H. Smith's notice of motion, to refer the consideration of poor relief in the metropolis to a Royal commission, adjourned by the transfer of Mr. Goschen to the Admiralty, will come on for discussion on Friday, May 5; and asit is most desirable, in the interests of the Poor-law Medical Service, that this motion should be acceded to, I do hope that Poor-law Medical officers will not fail to press on such M.P.'s as they may know the desirability of supporting this gentle-man's proposition. I would further point out to provincial Medical men, that whilst the terms of Mr. Smith's motion limit the inquiry to the metropolis, Mr. Faweett has given notice of his intention to move an amendment to the effect that

the contemplated inquiry should be extended to the whole of the county.

That his motion, etc., will be opposed, and that, too, determinedly, by all those who can be influenced by the determinedly, by all those who can be influenced by the calculated on; it therefore behoves all those members of the calculated on; it therefore behoves all those members of the Profession who are interested in a humane and economic treatment of the sick and other poor to use that wide-spread political influence which they undustriedly possess in support of both these propositions.

I am, &c.,

Dean-street, April 12.

JOSEFE ROSESS. I am, &с., Јозерн Rookes.

the contemplated inquiry should be extended to the whole of the

OUT-PATIENT HOSPITAL ADMINISTRATION. LETTER FROM DES. J. H. STALLARD AND HEYWOOD SMITH.

[To the Editor of the Medical Times and Gazette.] SIR,-We beg leave through you to remind the Profession that SIR,—We seg sews inreagn you to remind the I refession that a meeting is to be held in the rooms of the Royal Medical and inst. Sir William Fergusson, Eart, F.R.S., in the chair, to receive the report of the committee which was appointed last year to inquire into the out-patient Hospital administration of the metropolis, with the view to its reform. The result of their work, extending over more than a year, is embodied in a report which can be obtained by enclosing twelve postage stamps to the treasurer, Dr. Alfred Meadows, 27, George-street, Hanover-

square, or to your obedient servants,

J. H. STALLARD,

April 13. Herwoon Smith,

DR. BEAUPERTHUY'S TREATMENT OF LEPROSY LETTER FROM DR. R. H. BAKEWELL.

[To the Editor of the Medical Times and Gazette.] Srr,-I have received an official letter from the Colonial Office, SIR.—I have received an omnoal terrer from the column observations informing me that my reports on Dr. Beauperthuy's treatment of leprosy, and the observations of the College of Physicians thereon, "will be laid before Parliament without delay." As thereon, "will be laid before Parliament without delay." As the whole of the documents may be easily printed in a week, I should think they may be expected some time before the end of the seasion. The Profession will then be in a better position to judge of the value of the treatment than they could have done from the seanty materials hitherto furnished by me. As surprise has often been expressed that I did not publish my reports myself, I may be allowed to say that I did not consider myself in any way bound to incur such an expresse of the season of the considered the season of t reports myself, I may be anowed to say that I am not conserve myself in any way bound to incur such an expense about a method of treatment which was not my own, and in the suc-cess or failure of which I have no personal interest.

I have one patient under the treatment in London. been seen twice, at my request, by Professor Erasmus Wilson, F.R.S., and I have asked Mr. Jonathan Hutchinson also to see him. I regret that I cannot extend the invitation to other members of the Profession, on account of the patient's position in society, and the reluctance of his friends to have the case known. I presume, however, that the two gentlemen whose names I have mentioned will be amply sufficient to guarantee the correctness of the diagnosis and the results of the treat-ment. The case is so far advanced that I was obliged to inform his friends that I could not promise a complete cure, but I confidently anticipate an arrest of the disease, and a very marked amendment in all the symptoms. Should any member of the Profession have a case in an early

stage, I should be most happy to show him the method, and to superintend the treatment for a few weeks previous to my return

to the other side of the Atlantic.

I may state that Messrs. Savory and Moore have manufactured from my recipe an oil of cashew exactly like that factured from my recipe an oil of cashew exactly like that used by Dr. Beanperthuy, and which acts in a procisely similar manner. I would suggest that it should be tried in other both inte discusses of the skin. Its action, both liver of which is a constant of the skin and the not fallen off. I just mention this fact in order to caution Medical men not to apply it to the face unless their patients can remain in-doors for a few days, as the appearance of the spots where the old has been applied is at a little distance most unpleasantly like secondary syphilis.

Medical Officer of Health, etc., for the Colony of Trainiad.

Waverley Villas, Hendon, April 8.

ON THE USE OF LATIN TO THE PHYSICIAN, AND ON THE STATUS OF THE PHYSICIAN IN BRAZIL.

LETTER FROM DR. R. GUMBLETON DAUNT.

[To the Editor of the Medical Times and Gazette.] Str., - Having ordered from England the regular envoi of I having others from Longians use vigation with the journal you edit, I am already in possession of the number of January 7 of the current year. Seeing there an excellent editorial article on the necessity of the study of Latin, and on the absurd pronunciation of this language by the English lettered class, I, as an enthusiastic student of this language, and believing that the study of the Latin syntax or grammar is the most powerful agent in human hands for oducating duly the intellect, and so civilising society, congratulate you most warmly for the expression of so useful a doctrine, which is opportune in the extreme in presence of the Yankee materialism now preached up as the summum bonum of human legitimato

There can be no room for doubting that the Physician of There can be no room for coulding that the Physician of the nineteenth century is a less lettered man in general, and socially inferior, to our old Physicians, and that the de-cadence of Latin and literary studies in presence of the importance given to the practical applications of physical and absolute legislary is the next of the city. Recall these allegaimportance given to the practical applications or physical and chemical science is the root of the evil. Brazil gives a lesson on this point which shames English and Scotch institutions and the Queen's University of Ireland. No one in Brazil can matriculate as a student of Medicine until he has passed an matriculate as a student of Medicine until he has passed an acamination in letters equal to that for a B.A. degree of a British university; and after overcoming this difficult entrance, he must study for six years with only ten weeks, or at the most eleven, of rest during each twelvemonth. For the reality of the tests to which candidate are subjected, the frequent attendance of the Emperor in person at the examinations and defence of these in the Rio Faculty is a most satisfactory

and defence of theses in the Kio Faculty is a most satisfactory guarantoe.

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graphysical and Surgeon is here, theresfore, proportionately elevated, and they can aspire to any political or social position without fear of being unable to sustain it with digatity. In justice to Ireland and Scotland, I will beserve that in these countries the Latin pronunciation is that of the Continent of Europe, and the only true and natural. Among the languages which are daughters of the Latin, your field of all modern languages; indeed, so much so, that a good scolar will write a page of which it will be impossible to say if it be Latin or Portuguese. I had the advantage of a tolerable knowledge of Latin when resolving to make an Annus Madicas in the University of Vienna. I there found the learnes delivered in Latin, and heard this language only in the can exceptional way with it. To this day I retain all the advantation I then felt for the brilliant improvises of Professor Toltenyi, the distinguished Magyar Professor General Pathology and Threapentics, delivered in Latin as fluent and correct as the French discourse of any good French orstor. guarantee.

440 Medical Times and Gazette. There was an old elementary book for young Latiners which, I think, was relinquished to their prejudice. I refer to Cordery or Corderius. For advanced students, as a most useful help to conversational Latin and composition on modernised help to conversational Latin and composition on modernised subjects, I suggest the study of the Colloquies of Erasmus, and strongly recommend the bringing out a new edition book must be very scarce. The study of the Latin of the Gallo-Roman poets under the cuspire and under the early Meroringians is also most useful, so, also, useful and spiritualising is the study of the magnificent medieval hymns of the missal and breviary. What splendid and chaste poetry, con-ceived in the conditions of modern thought, do we not owe to the early Franciscans of the thirteenth century. (See Ozanam, "Les Poètes franciscains du 13me Siècle.") In my opinion no one can pretend to a well-developed and cultivated intelligence one can pretent to a weu-reveloper and enuvarice intensigned who has not passed through a course of Latin study conducted on the old principles, and not in any modern, superficial, parto-like, or rough-and-ready style, or merely with a view to the translation of easy books. I believe there is now a college for the education of the son of Medical men; if so, no greater boon can be conferred on their families than by giving a rigorously classical character to the education. After this the study of modern languages and of modern science is much more rapidly and perfectly performed than in the case of those who have not had their intellect so trained. I should much wish to see the had their intellect so trained. I should much wish to see the B.A. degree a necessary qualification for admittance to the Cursus Medicus of the Scotch Universities. At least, if the conrse of Medical study were prolonged, as it should be, one or two years, there might be attached chairs of Latin literature to the greater institutions, which the first and second years' students should attend. The regents of such chairs should frequent for two years the Faculties of Letters of Montpelier and Toulouse to qualify themselves, leaving all insular pre-sumption at the port of embarkation. I am &c., RICHARD GUMBLETON DAUNT, M.D. Edin,

Campinas, San Paulo, Brazil, March 4.

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

TUESDAY, MARCH 28.

Mr. JOHN BIRKETT, F.R.C.S., Treasurer, in the Chair.

A PAPER, by Deputy Inspector-General T. LONGMORE, Professor A PAPER, by Deputy Inspector-General T. LOWGOER, Professor of Military Surgery in the Army Medical School, Netley, was read "On the Classification and Tabulation of Injuries and Surgical Operations in Time of War." After adverting to the practical value which attaches to statistical information derived from Surgical experience in time of war, the author proceeded to consider the subject of his paper under five separate heads.
Under the first head, he remarked upon what had been done in this country in respect to the nomenclature and allocation of gunshot injuries in general nosological classification; more pargundati injuries in general nosciogical classification; more par-mental production of the changes of names and arrangement which have more than the contract of the Royal College of Physicians of London to draw up a Nomenclature of Diseases which appeared in the year 1868. In the second division of the paper, the author gave an account of the special classification and tabulation of the statistics of ar gunshot injuries and their treatment in time of war particular gunsion injuries and their freatment in time of war adopted in the British military service; and afterwards of the adopted in the British military service; and afterwards of the also remarked upon the absence of any corresponding official system of classification in the army Medical returns of Ger-many. In the third section of the paper, the question was considered how far the tabular statistics contained in the official considered now rar the tabular stansics contained in the united records of campaigns published in this country, in the United States, and France, can be justly compared with each other; and the author arrived at the conclusion that no such fair comparisons can be instituted under present circumstances. The fourth division of the paper was devoted to a study of the relative merits of the British, French, and United States systems of classification and tabulation; more especially as regards accuracy and completeness of information, and economy of labour and cost in compilation. Finally, in the fifth part of the paper, the author urged the necessity for an international eration of the subject, with a view to the statistical and Surgical histories of campaigns being constructed on a general system common to the Medical departments of all regular

Dr. Althaus said that Mr. Longmore had made an error in stating that no record of the wounded was kept in the German army. Both in the dressing-places to which wounded men army. Both in the dressing-places to which wounded men were first taken, and in the movable Hospitals, the nature of each case and its treatment were noted; and the same was done in the field Hospitals. In this way very complete statistics of the Danish war had been made; and it was highly probable that a very complete account of the injuries received in the late war would appear.

Staff-Surgeon Fitzgerald said that in the German army a note of each case was indeed made; but there were no numerical returns made out at the dressing-places or in the movable Hospitals. The question of records of individual cases was quite different from that of numerical returns. What was wanted was, that each Surgeon should furnish a return of this kind. He had been employed in compiling the records of the Crimean war, and had had occasion to notice the defects in the returns of primary amputation—there not being sufficient information as to the injuries for which the operations were performed.

Mr. Spencer Wells pointed out a source of fallacy which he had noticed while on duty in war: that the same man may receive more than one wound, and thus be entered more than once on the returns.

THE PATHOLOGICAL SOCIETY. TUESDAY, MARCH 21, 1871.

Mr. Hillton, F.R.C.S., President, in the Chair.

DES. POWELL and DICKINSON read a report on the Brain Tumour exhibited for Dr. Hawkes at a previous meeting. They considered it the remains of an ancient aneurism.

Dr. CAYLEY and Mr. AENOTT, in their report on Mr. De Morgan's specimen of Lymphadenoma, only confirmed that gentleman's statements.

Mr. W. Spencer Warson exhibited a Growth of the size of sixpence, removed from the Cheek of a woman, 60 years of age, which presented, besides the characters of epithelioma, fluid-containing cavities, with intra-cystic bodies of the size of ricegrains. There had been no return of the disease several months after the operation.

Mr. HULKE did not know when the cysts were found, before or after removal.

Mr. Warson said after removal.

Dr. PAYNE exhibited several organs from a patient affected Dr. TAYNE extinuted several organs from a pastion success, with very general cancer. Besides large canorrous masses in the liver and adjacent lymphatic glands, two small new growths were found on the inner surface of the heart-walls. One was in the extreme angle of the appendigg of the right auricle, among the trabeculus; the other in the apex of the left ventricle. In the left iliac and a small part of the common iliac veins was In the left liac and a small part of the common line veins was found a pinkish mass, with a somewhat reticulated surface, very closely adherent to the walls of the vein, which seemed at once to be something different from an ordinary thrombus. The vein at this part was very closely adherent to the subjacent cellular tissue, and by that to the body of the last-but-one lumbar vertebra. Part of the body of this vertebra was found to be thickly infiltrated with a whitish, creamy juice, the cells of which, in their character and in their great variety, differed entirely from the normal structures of the part, and so far entirely from the normal structures of the part, and so far appeared to be heterologous. On closer examination of the mass within the vein, it was found to be partly composed of blood corpuscles, but to be traversed by bands of some organised structure, forming a reticulation. This structure was composed of rather small cells or nuclei, and was vividly tinted by carmine. The wall of the vein was at one point infiltrated with similar cells. The whole structure there appeared to be a new growth extending into a thrombus, though it had not reached the complete development of cancerous structure. The can-cerous masses in the liver showed a perfect alveolar structure, but the cells were extremely small, usually not larger than a blood corpuscle. The coincidence of growth within a vein and growth within the heart at first suggested the idea that one might have been the consequence of the other; but this could hardly have explained the growth in the left ventricle, unless the infecting material (liquid or solid) could pass through the lung capillaries without producing disease there, since there was no affection of the lungs.

In reply to Dr. Barnes, he stated his belief that the patient died of cachexia

Mr. Arxorr thought it hardly necessary to assume that the heart disease had arisen in that way. He had frequently seen cancer of the heart where there was no direct communication with the external disease. He had seen masses projecting into the cavity of the heart with the endocardium covering

them.

Mr. Huxex thought there was one difficulty in Dr. Payne's notion. Assuming that the cancer was shed into the veins as sfluid, it should be more generally distributed.

Dr. Payres also exhibited the supra-renal capsules from a case of Addison's disease, and microscopic preparations of the case were—the limitation of visceral disease to the supra-renal capsules, all the other organs being practically healthy; the distribution of the discoloration, which was only noticed on the genitals, with some faint traces on the chee; and the occurrence of similar pigment attoin on the pia mater of the spinal cord. The pigment in this situation gave the membrane a discovery of the pinal cord. The pigment in this situation gave the membrane or tained in a system of connective tissue-cells with anastomosting prolongations. prolongations.

Dr. CHOLMELEY asked if the mouth was examined. Spots were sometimes found there and nowhere else. It had not

been so.

Dr. FAGOE said Dr. Moxon's attention had recently been Dr. FAGOE said Dr. Moxon's attention had recently been drawn to jugmentation of the pia mater. A man died last week, apparently of Addison's disease, and in him the pix-been hardly anything in the way of coloration. The natural jugmentations might be merely excessive in Addison's disease if we considered it as disease of the ganglionic system. Dr. Greecknow said there was ordinarily no discoloration of the pia mater in Addison's disease. He also thought it was a

the pia mater in Acaison a casease. In easo thought it was a neurosis. It was sometimes intermittent in its form, and pigmentation varied. He remembered diagnosing a case by an epigastric blister-mark which had disappeared before death. Dr. CATLEY said dark patches in the mouth might occur in

other affections, as in a case with ordinary dyspeptic symptoms, where the patient got quite well.

The PRESIDENT remarked that normally the penis and scrotum

became durker with advancing ago.

Dr. Clarrox exhibited a specimen of Atrophy of the Cerebellum. He said: M. A. F., aged 33, married, was admitted into St. Thomas's Hospital, under my care, on December 20, 1870. She was suffering from pleurisy, with extreme prostra-tion. The abdomen was hard and distended, but there was no indication of pain on pressure. Her manner was peculiar. She would answer questions promptly, but not rationally. She could not recognise her friends. Her hands were very tremulous when moved, and she was unable to feed herself. Pulse very frequent and feeble. Breathing short and rapid. She had frequent and recole. Breathing short and rapid. She had been married a year, and was confined a month previous to admission; was said to have been very delirious for a day or two after her confinement. She died nine days after admission. An hour before death she startled the nurses by sudsion. An hour before death she startied the nurses by sud-denly rising and manifesting a considerable degree of mucular strength. There were no convulsive movements. Her husband informed me that he was only acquainted with her a short time before their marriage. She could take long walks, but was obliged to walk slowly, and during her pregnancy her gait was very unsteady. She was somewhat dull of comprehension, but could read and write, and carry on all her domestic duties very fairly. Her brother informed him that as a child she was very backward in intellect and delicate in health, and that she was unable to walk at all until 6 years of age, and up that she was unable to was at an units o years or age, and ap-to 14 could not guide her hands to her mouth, so that she was obliged to be fed. My clinical clerk, Mr. Newby, took some trouble to find out her mother, and her account was to the effect that up to the age of 4 her daughter was a very healthy child; that at that period she was attacked with measles, after which she was unable to walk or talk for six months; that which sate was uname to the age of 15 she walked unsteadily, and was not able to use her hands with case and certainty, and was not able to use her hands with case and certainty, and that she was of dull intellect. With regard to the theory which assigns the cerebellum as the organ of sexual instinct, I may mention that, according to the husband's account, everything was perfectly normal in respect of her generative func-tions. Post-mortem Examination: The membranes of the brain appeared healthy. The cerebellum was remarkably small, and the posterior fosse of the skull small in proportion. The spinal cord was removed, and throughout the pia mater, on the posterior aspect of the cord, were scattered small, thin, bony

plates, about the sixteenth of an inch in diameter. The brain and cord were set aside for further examination. The pleure and each pleural cavity contained a few ounces of turbid serum, and both layers were covered with an exudation of soft, recent lymph. The lower lobe of each lung was congested, and sparingly crepitant. Beneath the pelvic fascia on the right side of the pelvis, between it and the innominate bone, was about an ounce of pus; a smaller collection was situated im-mediately in front of the first piece of the sacrum. The iliae and femoral veins were unobstructed. The liver was pale and The other organs were all examined, and were found om disease. A careful examination of the cerebellum free from disease. free from disease. A caroful examination of the cerebellum was made by Mr. C. Stewart, the Curator of the Museum, who has supplied me with a drawing of the microscopical appear-ances. The weight of the entire brain was 38 oz., and of the ances. The weight of the entire brain was 38 oz., and or the cerebellum 710 grains; the average weight of the brain in the female being 44 oz., and of the cerebellum 2200 grains. The weight of the atrophied cerebellum is consequently less The weight of the atrophied cerebellum is consequently less than a third the normal. Its transverse diameter was three inches, the average being about four inches. This would cor-respond with a reduction of cubic contents from five to three. The base of the skull was, without any increase of its thickness, accurately adapted to the under surface of the brain. ness, accurately adapted to the under surface of the brain. The cerebrum appeared of normal consistence, but the cerebellum was extremely hard, with the exception of a narrow area in front of each lateral lole, which, both to the naked eye and under the microscope, appeared normal. The bloodressels were healthy. (Drawing by Mr. C. Stevant, illustrative of the surface of the surface to a point a little below the ganglionic layer. It shows an almost complete absence of proper nerve substance, with great increase of the neuroglia; also epherical, transparent, and apparently homogeneous bodies, which are stained deeply with carmino.

the brain in their Reports. It occurred in a deformed idiot, who never walked. In a French case of atrophy of the cerebellum occurring very early in life, it, as well as the pons, was entirely a-wanting. This patient was paraplegic. He had found experimentally that removal of the cereoellum paralysed

Mr. HART said it was forgotten that here both hands and

feet were affected.

Dr. Facor said that in a case where the outside of the cerebellum was very hard, the size being small, but the centre

normal, no nervous symptoms were noted.

Dr. Clarron said, if they had not taken pains about the history, no symptoms would have been noted here. In reply to Dr. Broadbent, he said she learned to read and write after 14. The peduncles were not examined. In reply to Mr. Hulke, that it was a case of atrophy, not of arrested development; the child was quite healthy till 4 years old; also, that the convolutions were normal, perhaps more symmetrical than usual.

Mr. Beck exhibited a Tumour from the Head of the Tibia

of a sailor, aged 31. He fell about eighteen months ago, and three months after detected a lump below his knee, which by-and-bye rendered him incapable of work and gave him a good deal of pain. The tumour was large and lobulated, soft, and elastic; it was not tender. There was unusual mobility of the leg. The head of the bone was found to be entirely of the lig. The need of the cone was found to be entirely destroyed, the periosteum alone remaining expanded over the tumour. There were many cysts containing bloody fluid, and tis central parts were pulpy. The myeloid cells were common, spindle and fusiform cells less so in the tumour. The cysts seemed to have distinct walls, and the cartilage of the knee-

joint was healthy.

In reply to the President, he said it would probably not recur.

Mr. HULKE considered myeloid bodies to be often accidental, depending on the place of origin of the spindle-celled sarcomas. In proportion to the predominance of the spindle cells, so was the tendency to recur.

Mr. Annorr had seen recurrence where the myeloid element was abundant. From this abundance he had been able to predict the recurrence of a nasal polypus as showing its origin from bone.

AN Odd Definition.—The proprietor of a little alchouse in Scotland having on his sign-board, after his name, the letters "M.D.F.R.S." a Physician, who was a Fellow of the Royal Society, asked him how he presumed to affix these letters to his name. "Why, sir," said the innkeeper, "I love as good a right to use them as you have." "What do you mean, you impudent fellow?" repiled the Physician. "I mean, sir, that I was Drum-Major of the Royal Scots Fusiliers.

MEDICAL NEWS.

ROYAL COLLEGE OF SUBGEONS OF ENGLAND,-The following gentlemen passed their Primary Examinations in Anatomy and Physiology at a meeting of the Court of Examiners on the 6th inst., and, when eligible, will be admitted to the Pass Examination :-

The following candidates passed on the 11th inst., viz. :-

following candidates passed on the 11th inst.
Atkins, Francis T., of Orey's Hospital.
Atkins, Francis T., of Orey's Hospital.
Brathery, D. Addison, of the Leeds School.
Clerke, Huyert C., of Orey's Hospital.
Coron, Bichard, of Orey's Hospital.
Coron, Bichard, of Orey's Hospital.
English, Thomas J., of St., George's Hospital.
English, Coron, C., of the Newcastle School.
Hundry, John R., of the Newcastle School.
Hundry, Coron, J., of the Newcastle School.
Hundry, Coron, C., of the Newcastle School.
Faler, George's W., of the Thomas's Hospital.
Faler, George's W., of the Thomas's Hospital.
Faler, George's the Liverpoil School.
Spark, Stding Walter, of Guy's Hospital
Espath, Stding Walter, of Guy's Hospital
Espath Stding Walter, of Guy's

The following candidates passed on the 12th inst., viz.:-

following candidates passed on the 12th ins.

Barrack, Probertch, of King's Chiege.

Carolan, James P., of St. Mary's Hospital.

Carolan, James P., of St. Mary's Hospital.

Carolan, James P., of St. Mary's Hospital.

Creepin, Ren. Let of Greys Hospital.

Creepin, Henry Let of Greys Hospital.

Creepin, Henry Let of Greys Hospital.

Evan, Thomas of Greys Hospital.

Havylew, Thomas II., of the London Hospital.

Havylew, Thomas III., of the London Hospital.

Haylew, Thomas III., of the London Hospital.

Haylew, Thomas III., of the London Hospital.

Haylew, Thomas III., of the London Hospital.

Maylem, Aurelius V., of St. Thomas's Hospital.

Billion, J. and Greys Hospital.

Billion, J. and Greys Hospital.

Billion, J. and Greys Hospital.

Bentl. Corp. of Greys Hospital.

Ewe-tland, F. Y., of Greys Hospital.

Venning, Elimand, of University College.

Ward, Joseph, of the Birmingham telesol.

Willocok, Alexander, of Greys's Hospital.

The following candidates passed on the 13th inst., viz. :-

Amyst, T. H. E., of King's College. Bevers, Edmund A., of Guy's Hospital. Bishop, George H., of St. Mary's Hospital.

Part J.

Sondery Luac. of St. Thomas's Hospital.
Clark, F. Cheesman, of Rt. Bartholomer's Hospital.
Clark, F. Cheesman, of Rt. Bartholomer's Hospital.
Clark, G. Cheesman, of Rt. Bartholomer's Hospital.
Collete, W. Harrison, of Rt. Thomas's Hospital.
Clark, W. Harrison, of Rt. Thomas's Hospital.
Clark, W. Harrison, of Rt. Thomas's Hospital.
Childing, C. Cano, of Gly R. Boyella,
Obling, C. Cano, of Gly R. Boyella,
Coronall, Edward 8, of St., Bartholomer's Hospital.
Creendl, Edward 8, of St., Bartholomer's Hospital.
Hetchings, Arthol. of Klurk's College,
Kernbar, Robert, of the Lembon Hospital.
Kernbar, Robert, of the Lembon Hospital.
Kanth, Charles, G. Gly St. Boyella,
Malon, Edward 2, of St. Marty's Hospital.
Malon, Edward 2, of St. Marty's Hospital.
Paper, Britter, of Edward Britany, St. Cheesman, Charles, Charles, Cheesman, Charles, Charles, Charles, Charles, Charles, Charles, Cheesman, Charles, Charles, Charles, Charles, Charles, C. Charl

watte, grass W., of Ring's College.

Twenty-four candidates out of the 108 examined having failed to acquit themselves to the antisfaction of the Court of Examiners, were referred to their Anatomical and Physiological studies for three months.

ROYAL COLLEGES OF PHYSICIANS AND SURGEONS, EDINATION.—DOUBLE QUALIFICATION.—The following gentlemen passed their first Professional Examinations during the April sittings of the Examiners:— Mackay, John, Sutherlandshire. Montgomery, Tristrim Lowther,

Berry, William, Wigan.
Cagney, Daniel, Cromer.
Coleman, James J., Galway.
Griffin, Thomas, Galway.
Hussey, Edward, Bath.

And the following gentlemen passed their final examinations, and were admitted L.R.C.P. Edin., and L.R.C.S. Edin.:—

Anderson, Robt. McGlashan, Perth- | Hale, Edmund Thos., Glamorganshire, der, William, Banffshire. rager, Wumam, Banfishire. Falvey, Francis Joseph, co. Kerry. Garde, Thomas William, co. Cork. Oalt, James, Fifeshire. Mark, Joseph, Bathfriland.

Mulholland, Owen, Newtonhamilton. Thompson, Wesley Hayes, Wor-custershire.

Montgomery, Tristrim Low Dumfriesshire. Spears, William, Birmingham.

ROYAL COLLEGE OF SURGEONS, EDINBURGH .- The following gentleman passed his First Professional Examination during the recent sittings of the Examiners:—

Parry, Davenport, Argyll. The following gentlemen passed their final examinations, and were admitted Licentiates of the College:-

Aliman, John, Edinburgh.
Allan, James, Glasgow.
Anderson, Isaac Henry, Belfast.
Charles, John James, Cookstown.
Chittenden, Charles Pierce Downy,
London. London.
Douglas, John Campbell, Lanarkshire.
Glendinning, James, Dumfrica.
Govan, Charles, Fifeshire.

Hall, William, Lancaster. Kennedy, David Given, co. Antrim. Levinge, Henry Mark, Westmeath. M'Lelland, Alexander, Kirms-M'Lelland, Alexander, Kirma-breek.
M'Nsul, Hugh Hamilton, county Antrim.
Macpherson, Charles, Greeneek.
Sneddon, William, Cleland.
Wilson, John, Belfast.

APOTHECARIES' HALL .- The following gentlemen Medicine, and received Certificates to practice, on Thursday, April 6, 1871 :-

Batchelor, Ferdinand Campion, Brixton-hill.
Bland, William Charles, Notting-hill.
Gray, George James, Stonchouse, Devon.
Jackson, James, Wootton Bassett.
Spencer, Francis Henry, Chippenham, Wilts.
Wharry, Charles John, Woolwich.
White, Edmund, Park-terrace, Regent's-park.

The following gentlemen also on the same day passed their First Professional Examination:—

pressional Examination:—
Batchelor, Edward E. A., St. Bartholomew's Hospital.
Beardeley, Arthur A., Guy's Hospital.
Butler, Prancis Wilham, Westminster Hospital.
Cockerton, Henry H., London Hospital.
Cogman, Charles, London Hospital.
Thompson, Henry, St. Bartholemew's Hospital.

APPOINTMENTS.

• The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

DE LA MOTTE, PETER W.—House-Surgeon, viet Mr. M. E. Cant, who has been appointed to the St. Paneras Schools at Leavesden. FOOT, ARTHER WYSER, M.D. Univ. Dub., Fellow King and Queen's Col-lege of Physicians, Ireland.—Physician to the Meath Hospital, Dublin, see Dr. Hudson, resigned.

MOORE, Mr. ARTHER J.—House-"urgs ur to the London Hospital.

BIRTHS.

Bayant.—On April 10, at 2, Finsbury-square, the wife of Thomas Bryant, F.R.C.S., of a daughter.

F.H.C.S., of a daughter.

Grantsu.—On. April 8, at Great Edward-street, Belfast, the wife of E. D. Gribbin, L.H.C.F. Elin, L.F.P.S., and L.S.A., of a son. Para.—On April 7, at Bolloy, the wife of Alfred Pern, F.R.C.S., of a son. Pocock.—On April 7, at Manor-terrace, Briston-road, S.W., the wife of Edward William Pocock, M.R.C.S.E., of a fixed-property of the property of the prope

PROPERT.—On April 12, at 100, Gloucester-place, Portman-square, the wife of John Lumsden Propert, M.B., M.R.C.S., of a son.

SCHMERHAYES.—On April 3, at 18, Sandringham-gardens, Ealing, the wife of Wm. Summerhayes, Surgeon, of a son. SUTCLIFF. On April 6, at High-street, Wandsworth, the wife of Edward Sutcliff, M.D., of a daughter.

TAYLER.—On April 10, at New-cross, the wife of Francis T. Tayler, M.B., B.A., of a son.

MARRIAGES.

FORMAN—GARDINER.—On April 12, at St. Stephen's, Dulwich, George Ellery Forman, Surgeon R.N., to Freda, eldest daughter of the late Robert Barlow Gardiner, Esq., C.E. Gill.—Galikora.—On April 4, S. Lawrence Gill, Surgeon, Bow-road, to Lacy Grainger, of North Bow.

DEATES APPLENT, Tox, formerly of the 3rd Hussars, son of the late Mr. Appleby, Surgeon, Ripon, Yorkshire, at Middlesborough, on April 4.

Cass, Estily Francis Louisa, the beloved wife of Dr. Copley Carr, of Iver, Bucks, on March 27.

Bucks, on Jairce 72.

Cory, Arrun Belmors, the youngest son of Dr. Cory, at Buckhurst-hill, after a few bours 'llness, on April 1, aged four months.

IBERTSON, FRANCES, widow of the late James Ibbetson, Surgeon, Bognor, on April 6, aged 70.

on appu 0, agod 10. McDongad, Parkitek McDongad, of Middelton-tired, Cerkenwell, daughter of James Adair McDongad, of Middelton-tired, Cerkenwell, daughter of James Adair McDongad, Townst, Lawn, M.D., on of the late lewis Powell, Eag., J.P., of Ongar, Olyntawe, Breccashire, at Bon Air, Mauritius, on March 8, in the 54th year of has ago.

year of ms age.

RESSLL, ENTH STRATYGED, only child of the late Robert James Russell,
Surgeon, of H.M.I.S., Hombay, and granddaughter of the late Lieut.—
Colonel Stratford Powell, at Queen "grandens, on April 6.

SREPHERD, JAMES CAPTER, M.R.C.S.E. and L.S.A., at Ambleside, on
April 7, Aged 62.

STARLING, GEORGE AUGUSTUS, third son of G. A. Starling, M.D., Blab Stortford, at the residence of his brother, Hornton House, Kensing on April 10, aged 34.

Symonus, Sanuel, son of the late J. Symonds, Surgeon, Kidderminster and grandson of the late Rev. S. Addington, D.D., at 30, Claverton street, Pimlico, on April 2.

STORY, TIMBO, OR APRI 2.
THORHON, CHARLOTTE, WIGOW Of the late Dr. Thompson, at Hothampton-place, Bognor, on March 31, in the 68th year of her age.
TRUSTRIM, HARRIST JULIA, wife of Charles Trustram, Surgeon, Tunbridge-wells, on April 6, after a short illness.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession, ASSISTANT DISPRISHES IN HER MAJESTY'S NAVAL ESTABLISHESHES.—An open competition will take place on April 25. For particulars see

Area are Union.—Medical Officer and Public Vaccinator for the Askri District. Candidates must have the qualifications prescribed by the General Orders of the Poor-law Board. Applications and testimonal to Geo. Winn, Esq., jum., Cierk to the Guardians, on or before April 17.

General Urders of the Poor-law Board. Applications and testimonials to Geo. Winn, Den., jun., Girck to the Grandfans, on or before April 17.

Billion of the Committee of Visition, on or before May 1.

Lanatic Asylum will be preferred. Applications and testimonials to the Chairman of the Committee of Visition, on or before May 1.

East Was D Union.—Medial Officer for the Borough District. Candidates must be duly qualified, and be registered under the Medical Act, 1886. Applications and testimonials to Mr. John Whitebead, Clerk to the Guardians, Appleby, on or before April 22. Election on the 24th.

HALIPAX INTIMARY AND DISPENSANT.—Physician; must be a Graduate in Medicine of one of the Universities of the United Kingdom, or a Fellow or Member of one of the Colleges of Physicians. Applications and testimonials to Mr. John Crossley, on or before April 22. Election

on the real.

HOWTLAL FOR CONSENSITION AND DIMEASE OF THE CREEK, BROWNTON, B.W.

HOWTLAL FOR Physician; must be M. D., or M. H., or M. H.C. P. Applications and testimonials to the Secretary, on or before April 19.

LORFOR FEVER HOWTLAL—A MISSISTER Physician; must be F. or M. R. C. P. L.

Applications and testimonials to the Secretary, on or before May 9.

Election on the 12th.

MAKCHESTER ROYAL INFIRMARY.—Junior House-Surgeon; must have both Medical and Surgical qualifications, and be regristered. Applications and testimonials to the Chairman of the Weekly Board on or before April 22. testimonials to the Chairman of the weekly location on or leafor April 12. Middlesses, and the control of the April 12. Middlesses and the control of the Female Department. Candidates must be duly qualified and registered. Applications to be made on printed forms, which can be obtained of the Medical Superintendent, on or before April 16, after which date on applications will be received. The election will take NARBERTH USTON.—Medical Officer for the Third District. Candidates must have the qualifications prescribed by the General Orders of the Poor-law Board, and understand the Welsh language. Applications and testimonials to Mr. John Thomas, Clerk, Narberth, on or before June 17. Election on the 19th.

assection on the 19th.

Newar Horrart.—Medical Officer; must have both Medical and Surgical
qualifications. Applications and testimonials to the Severtary of the
Norwical Directars.—Relief of Medical Officer.

Charliage and the Service of the Service of the Service Directars.—Service of the Service Directars.—Service of the Service Officer of

BOYAL SURBEY COUNTY HOSPITAL.—Assistant Ronorary Medical Officer. Applications to the Rev. C. B. Dallas, Farncombe Rectory, Godalming, on or before April 27.

SOUTH STAFFORDSHIRE GENERAL HOSPITAL, WOLVERHAMFTON.—Dispenses; must be a Member of the Pharmaceutical Society. Applications and testimonials to the "Chairman of the Medical Committee," on or before April 29.

SOUTH STAFFORDSHIEF GENERAL HOSPITAL, WOLVERHAMPTON.—House-Surgeon; must be a Fellow or Member of the Royal College of Burgeons of London, Edinburgh, or Dublin, and a Licentiate of the College of Physicians, London, or be L.B.A. Applications and testimonials to the "Chairman of the Medical Committee," on or before April 39. Election on May 9.

SOUTH STATFORDSHIBE GENERAL HOSPITAL, WOLVERHAMFTOE.—Physician; must be M.D. or M.B. of the University of Oxford, Cambridge, London, Edilaburgh, or Dublin, or F. or M.E. C.P. London, Edilupyth, or Dublin, not practising midwifery or pharmacy. Applications and testimonislat to the Secretary, on or before May 6.

Westminster Greerat Dispensary—Honorary Physician; must be M.D. or M.B., and be registered. Applications and testimonials to Mr. J. Potter, Secretary, on or before April 24. Election on the 7th, at 11 a.m. Westmister Hospital. (orrosits Westmisters Abst). — Resident House-Surgeon; must be qualified to practice under the Medical Registration Act of 1888. Applications and testimonials to the Secretary, on or before April 15. Election on the 28th.

POOR-LAW MEDICAL SERVICE.

°.° The area of each district is stated in acres. The population is computed according to the census of 1861.

Crickinds and Wrotten EBBMONATIONS.

RESIDENTATIONS.

Presigned the Third District; area 13,823; population 3629; salary £05 per annues.

Relificat Union.—Mr. James HIV.

MRUUM.
Holifatz Union.—Mr. Junes Hilly has resigned the Elland District; area
**State State St

**Engine Union.—George Gent. Lis. A., to the Fiddington District. Credition Union.—When F. Thurston, M.R.C.S. Eng., L.R.C.F. Edin., C. A., to the Collebrobe and Boo Districts.

15. A., to the Collebrobe and Boo Districts.

15. A., to the Goldbrobe and Boo Districts.

15. E. A., to the Workhouse.

15. Reditions, I.R.C.S. Edin., L.R.C.F. Edin., L.R.C.P. Lind., M.R.C.S. Eng., L.R.C.S. Lev., L.R.C.S. Lev., L.R.C.S. Lev., L.R.C.S. Lev., L.R.C.S. Eng., L.R.C.S. Eng., L.R.C.S. Eng., L.R.C.S. Eng., L.R.C.S. Eng., L.R.C.S. Eng., L.R.A., to the Tourh District.

15. Eng. M. C. Eng., L.R.C.S. Eng., L.R.A., to the Started North College North District.

15. Eng., L.R.C.S. Eng., L.R.A., to the Started North College North

ham District.

St. Paneres Parish.—William E. Cant, M.R.C.S.E., L.R.C.P., to the Learenden Behools.

West Ward Onion.—Andrew C. Johnston, M.R.C.S. Eng., L.K.&Q.C.P., Ire, to the Bhap District.

THE office of Curator and Librarian at the Royal London Ophthalmic Hospital, Moorfields, is vacant.

London Ophthalmic Hospital, Moornedid, is vacant. WESTMINSTER HOSPITAL—Dr. Lee and Mr. Davey intend to give a short course of practical demonstrations on pathology, with instructions in post-mortem examinations, etc. It is also intended to form classes of students under separate Physicians and Surgeons, for special clinical instruction for pupils in their first summer session. Dr. Sturges has been appointed Lecturer on Materia Medica, and Dr. Loe has replaced him in Forensic Medicine.

replaced him in Forensie Medicine.

DEVONSHIEMER HOSPITAL, BUXTON.—The annual general meeting of the above Hospital was held het week. The report meeting of the above Hospital was held het week. The report first year, 1869, to the last year 1870, and that 1015 patients had been treated beneficially during the past year. Patients had been received during the year from 166 towns and districts. During the three winter months just passed, 133 patients had been admitted, of which only one had been sent away as no better.

WE regret to hear that the Bishop of Salisbury's son has died of scarlatina, at Winchester School, after a very short.

Dr. MATTHEWS DUNCAN has been elected one of the Consulting Physicians of the Royal Edinburgh Hospital for Sick Children.

Иурворновы is said to be very prevalent in Mid-

THE Northwich Local Board resolved last week to summon two publicans for permitting customers to assemble whilst they had small-pox cases in their houses.

SIXTEEN institutions are to participate in the distribution of £3,250, the amount of collections and subscriptions of the Manchester and Salford Hospital Sunday Fund.

A CORONER'S jury at Manchester, last week, returned a verdiet of "Wilful murder" against Frances Rogers, the so-called "baby-farmer," in whose house the body of an un-known child was recently discovered.

THE ratepayers of Tettenhall, Staffordshire, have, upon a poll, decided against establishing a board of health, by a

majority of 343 out of 474.

MR. T. B. THORNE, of 107, London-wall, has been appointed District Certifying Surgeon, under the Factory Act. A SUPERANNUATION allowance of £45 per annum has en sanctioned by the Poor-law Board to Dr. Jarvis, late Medical officer for the West Hackney district.

St. Petersburg is still suffering severely from cholera, which has also made its appearance at Moscow. The sanitary state of both cities is extremely bad.

A MAN named Rigg, employed at the Thornley Colliery, has died from hydrophobia, arising from the bite of a cat nine weeks ago. Two other persons were bitten by the same animal.

THE Shoreditch Vestry, last week, passed a vote of censure on Messrs. Dennis and Probason, the sanitary inspectors, for receiving Christmas-boxes from the dust contractor of the parish.

THE annual return of the number of insane paupers in England and Wales shows that, on January 1, 1870, there were, among 1,084,821 persons receiving relief from the poor-rates, 46,648 who were insane—that is, 4.3 per cent. of the pauperism was ascribable to insanity. The ratio is a fraction less than on January 1, 1869.

THE experiment of a large farm for the utilisation of the sewage of Croydon is about to be tried at Beddington, where an extensive tract of land, north of Beddington Church, on the other side of the River Wandle, and extending from Beddington in the direction of Hackbridge railway-station,

Dealings in the urretion of Theoronge raiway-station, has been acquired, and is being rapidly prepared for its purpose.

The Rev. H. D. Nihill, Vicar of St. Michael's, Shorodith, and the Rev. R. C. Kirkpatrick, Vicar of St. Augustine's, Kilburn, are both suffering from small-pox, caught in the discharge of their clerical duties.

THE stipendiary magistrate at Birkenhead last week inflicted a penalty of 100% on a butcher named Goddard, for exposing for sale at the slaughter-houses in that township a number of sheep which were infected with the disease known as seab. The defendant had purchased the sheep for the sum of 1s. 4d. each.

Dr. HIME, of Sheffield, was last week presented with a silver biscuit-box, which had been subscribed for by the patients at the Women's Hospital, as a slight token of their esteem and appreciation of his services as one of the Medical officers of the institution, and expressing the hope that his connexion with this charity will be long continued.

On the 11th inst. Dr. Gairdner reports 502 known cases On the lith inst. Dr. Usardner reports our known cases of fever in the city of Glasgow, being a decrease of thirty-three upon the number previously reported. Of these, lit were typhus, and 358 cases of relapsing fever. The number of known cases of small-pox was 109, being a decrease of an object of the contract of th deaths from all causes were 343.

THE domestic legislation upon the sewage difficulty in Birmingham is passing into a further stage. Ten members of the Town Council of that borough have memorialised the mayor to convene a special meeting of the Council to consider and resolve upon certain propositions. They suggest that a committee should be formed to report as to whether application should be made to Parliament for a special Act to enable the Corporation effectually to dispose of the sewage by irriga-tion or otherwise. THE Government of India has recorded its thanks to

Dr. Fayrer for his papers on snake-poison, which are to be republished.

THE National Library of Salvador, in Central America, is being organised. Everything necessary has been imported for the use of the classes of Medicine, natural philosophy, and chemistry of the University.

FEVER and cholera appear rife at Peshawur. We hear that the fever was so bad in November, in the 5th Fusiliers, that nineteen children, besides adults, died during twenty-one days. Even then, in the healthy season, the Hospitals were full.

Yellow fever is increasing at Buenos Ayres, and the death-rate is nearly 200 per day. There is no yellow fever at Monte Video. At Cape Town the general health of the community has been and continues exceptionally good-at least,

there are no epidemics.

LAST week, a convict named Brown mutilated himself in the most resolute manner, at the Chatham Dockyard Exten-Brown had refused to work ; he was being taken sion Works. Brown had refused to work; he was being taken back to St. Mary's Convict Prison for punishment, when he deliberately placed his arm under a waggen laden with bricks which was passing along a tramway, and the limb was com-pletely crushed. Instead of being conveyed to a cell for punishment, he had to be taken to Hospital to have the arm amputated.

MORTALITY OF SOLDIERS IN INDIA.—It appears from statistics that, for the first six years of service, the ratio of deaths is 43°31 per 1000, while for the first twelve years it is

only 31-93.
SCOTLAND—FRASERBURGH.—A public meeting has been SCOLIAGO - RASKEBERGH.—A DUDIC meeting has been held at Fraserburgh, having for its object the providing a public Hospital for the district, and a committee was appointed to carry out the scheme.

BATHS AND WASHHOUSES IN LIVERPOOL.—The local

Baths and Washhouses Committee has resolved to recommend the Council to apply to the Lords of the Treasury for permis-sion to borrow £40,000 for building baths and washhouses in Toxteth-park, West Derby, and Kirkdale districts.

THE SMALL-POX .- Government has advised the suspension of removals from unions in England and Scotland, where the small-pox had prevailed, to Ireland for the present.

THE small-pox is on the increase in Hackney, and the Homerton Hospital is now full.

WALES AND SMALL-POX .- "Newport, in Wales, claims the merit," says the Cardiff and Merthyr Guardian, "of having practised inoculation of the small-pox from time immemorial, before it was even known to the other counties of Britain; for before it was even known to the other counties of Britain; for while the London Physicians, on the recommendation of a Turkish practice, by Lady Mary Wortley Montagu, were cautiously venturing to experiment on some condemance dri-minals, the more hardy native of Pembrokeshire dured to inoculate himself, without the assistance of cither Physician or preparation. This was as early as the year 1722. The method had been constantly attended with great success, and meeting and need commands attended with great success, and though it had not acquired the name of inculation, yet it was carried on much in the same manner. They called it 'buying the small-por,' as it was the custom to purchase the matter contained in the pustules of each other. We should be glad if any of our readers could throw more light on a circumstance so honourable to Wales."

VACCINATION OPPOSITION. - Mr. Henry Clark, a tobacconist, of Derby, had been committed to gaol for fourteen days, for having refused to pay a fine for non-compliance with the Vaccination Act. A branch of the Anti-Vaccination League the Vascination Act. A branch of the Anti-Vascination League decided pong egiting up a procession on his release. About ton o'clock the procession started, Mr. Clark being attired in prison dress, with salt-bag and number complet, and carried shoulder-high by a band of men, preceded by several thousand people, a large red flap being carried in front. A public meeting was held shortly afterwards, and lasted for several hours. Mr. Clark was welcomed on his release from prison, and some strong language was used in the speeches which followed. The town presented very much the appearance of a general election.

DEATH OF EX-PROFESSOR BAUMES .- One of the former Medical celebrities of Lyons has just died in his 80th year.
Originally a Professor of Mathematics at Perpignan, he resolved upon adopting the Medical career, for which he had always felt a great inclination, and recommenced his studies at Montpellier, and in 1818 gained by the concours the post of interns of the Lyons Hospitals, at which city he continued to reside. Entirely devoid of resources, he laboured with the

- Waitz aday Goods

utmost diligence, and trying his strength at concours after concours, at last was nominated Surgeon-in-Chief to the conceints, at the was homeoned to reputation now rapidly increased, and an immense field was opened to his observation. increased, and an immense near was opened to his observation. As an opponent to Ricord, he published his once famous Traité des Maladies Vénériennes in 1840; but the work by which he became widely and advantageously known was his Traité des Maladies de la Peau, published in 1843. As a clinical teacher

and practitioner he enjoyed a vast celebrity.

CITY OF LONDON TRUSS SOCIETY, 35, FINSBURYSQUARE.—The number of patients relieved during the month of March was 777, to whom 785 instruments were supplied.

HYDROPHOBIA.-An inquest was held last week at Bootle, near Liverpool, upon the body of Robert Wylde, an officer of Customs, who died from hydrophobia produced in an unusual way. On February 20, as Mr. Wylde was leaving his house, a South American bloodhound, which had broken loose from a neighbouring timber-yard, owned by Mr. M. Gregson, attacked him, and, in the struggle with the dog, which was a "wicked one," but not mad, Mr. Wylde was bitten on the check, forehead, legs, and arms. The wounds which was a "wicked one," but not mad, Mr. Wylde was bitten on the check, forchead, legs, and arms. The wounds were immediately dressed, and the sufferer had so far, appa-rently, completely recovered that he visited his friends in Wrexford. He returned a few days since, exhibiting no effects of the attack except the slight traces of the sears. On effects of the attack except the slight traces of the sears. On Tuesday week, however, he showed signs of hydrophobia, which developed so rapidly that he died on Wednesday, in great agony and terror. The jury returned a verdict in accordance with the facts. The bloothound—since shot—had bitten some other persons also, who, up to the present time, however, have not exhibited any symptoms of the malady.

COMPOSITION AND QUALITY OF THE METROPOLITAN WATERS IN MARCH, 1871.—The following are Dr. Letheby's returns to the Association of Medical Officers of Health:—

Names of Water	Solid ter dlon.	Fre Da	Nitro	gen.	Hardness.		
Companies.	Total S Matte per Gall	Oxygen quired Organ Matter,	As Nitrates &c.	As Ammo- nia.	Before Boiling.	After Boiling.	
Thames Water Com-	Grains.	Grains.	Grains.	Grains.	Degs.	Degs.	
Grand Junction .	20:93	0.105	0.125	0:005	15:4	4.1	
West Middlenex .	19:53	0.085	0.125	0.005	15.0	8.8	
Southwark & Vaux-							
hall	21.11	0.082	0.110	0.008	15.8	4.1	
Chelsest	21.25	01064	0.091	0.004	16.0	4.3	
Lambeth	20:91	0.109	0.110	0.000	15.8	4'0	
Other Companies.							
Kent	27:73	0.004	0.128	0:001	21-0	5.8	
New River	20:17	0.040	0.122	0.003	15.8	3-9	
East London	24:39	0.090	0.181	0.003	16.4	4:2	

Ну. Lетневу, М.В.

DOCTORS AND THEIR FEES IN THE "GOOD OLD TIMES" IN IRELAND.—The following curious mode of providing for the payment of the Medical Profession prevailed in Ireland under the Brehon laws prior to the thirteenth century:—In an interesting address delivered to the Law Students' Debating Society of Ireland, December 6, 1899, by Mr. John B. Falconer, A.B., it is stated that—"A law in relation to Doctors cancted that their fees should be proportioned to the rank of the patient and the nature of the complaint. It was also held that no fee should be paid unless a cure were effected. On the other hand, fees seem to have been sufficiently large; and as the method of treatment must necessarily have been less scientific than at present, and the habits of life more simple, perhaps deaths did not occur so frequently (sic) from disease as at present. Fourteen cumhait, or forty-two cows, for example, were the fee for curing a bishop or local chief, while the health were the fee for curing a usuop or recal stank of the tribe and bodily welfare of a member of the lowest rank of the tribe were valued at six cows." This standard of value—viz., per cumhal, or three cows-was the origin of the expression, ***mmmm, or inree cows... was the origin of the expression, "So much land as follows three cows," and is explained by the then patriarchal state of society, which was chiefly pastoral, and, as the lecturer observes, "strongly resembled that of the Israelites

of old in their institutions. The land belonging to each sept was divided into common pasture lands, common tillage lands, private demesne lands, and the demesne lands of the tribe. Each member of the sept had the right of pasture for his cattle upon the common pasture lands. The share he received of the common tillage lands depended upon the number of cattle he possessed. The demesne lands of the tribe were assigned for the support of the chief, the chief-elect or Tanist, the Brehons or judges, and the bards and Doctors. In the demesne lands of the tribe, the chief, the Tanist, the Brehons, the bard, and the Doctor, had life interests, of which the reversion lay in their successors, who were ordinarily members of their own family." So it seems the Doctors were not wholly dependent on the kill or cure system.

NOTES, QUERIES, AND REPLIES.

De that questioneth much shall leurn much .- Bacon.

Dr. Charles O' Reilly, Hamilton, Canada West .- Your letter, with enclosure, received with thanks. Your request shall receive attention. An Inquirer,- We will find out at head-quarters, and an answer shall be

given next week.

Obstericus.—We have received the disgusting handbill. The thing is not only filthy and abominable, but it is a lie. The people who employ themselves in disseminating such filth are only fit to keep a brothel in a town of Communists.

We can confirm what Dr. Andrew Clark said at a recent meeting of the Medical Society of London as to the great relative frequency of enteritis amongst public school-boys. Blows on the abdomen, violent exercise, and exposure to cold when the skin is hot and perspiring, and the tuckshop, seem to be the causes of these attacks.

Justice.-The extract from the Globe is scarcely worthy of the serious notice which our correspondent takes of it. It is evidently a bit of badinage, and does not mean to reflect upon us. It is rather making fun of the plaintiff for supposing that he had a ground of action against his Doctor for making a slight mistake in diagnosis.

Pro Bono Publico,-The name of "Dr. Clarkson" is certainly in the Medical Directory; but, surely, he cannot be answerable for the outrageous puff under the above title, which it appears is circulated by Wesleyan ministers throughout the various circuits! Until we hear to the contrary we shall not indentify Thomas Clarkson, M.R.C.S., of Ripley, Yorkshire, with "Clarkson's specific for bad legs."

J. D., Hall, calls our attention to the following extract from a law recently enacted at the Hull and Sculcoates Dispensary :-

enacced at the Huil and Sculcoates Inspensary:—
"The services of the Physicians shall grantinious. The Surgeons shall receive an annual payment of thirty guineas for their services, and have three months' notice from the Committee in case it is necessary to dispense with them. The Surgeons shall give a like notice to the Committee if they wish to terminate their engagements."

We venture to say that in no other charitable institution throughout the length and breadth of the land is such an impudent law in existence. It reduces the position of the Surgeon to that of "a maid-of-all-work." Can it be possible that any Surgeon in Hull should so far forget his self-respect and the honour of his Profession as to take office under such a

VENAL DIPLOMAS.

Will the editor of the Medical Times and Genetic give his opinion on the enciosed advertisements taken from the Daily Telegraph of this day, the party inserting them, and to the paper that receives them. Surely such infamous proceedings should not be allowed to pass unnoticed by the Modical Profession.

M.D. De Pasts. Curson-street, Mayfair, April 5.

MEDICAL DIPLOMA WANTED. Foreign would NI suit.—Send particulars and price, which must be moderate, to Medicus, 57A, Barnard-street, Tavistock-square, W.C.

DEROMOTION IN ABSENTIA—Qualified Surgeous, because of the problem of the problem

. Fools and their money are easily parted. Diplomas, such as are obtainable in this way, are utterly useless in the Medical Profession; but to corncutters, quack lecturers, and others of that stamp, they may add a tinge of respectability.

> "PARISIANA."-A CORRECTION. TO THE EDITOR OF THE MEDICAL TIMES AND GAZETTE.

TO THE SOTTOM OF THE MEDICAL THEM AND GALETE.

CRIES BY THE-MOONES CONTRACT—In thanking you for your delightful and spirituils critique on my little book. "Partisans," allow me to point and so that the property of the prop

THE GRADUATED CHLOROPORM BOTTLE

35 and 36, West Smithfield.

COMMUNICATIONS have been received from

BOOKS RECEIVED-

BOOKS RECEIVED—
Beyord the Gilmorpan County Lunatic Asylum—Tyndall's Fragments of Seisnes for Unscientific Peoples—Notes and Recollections of an Ambiduane Surgeon, by William Ascormac, J. R.C. As, the—Blammation of the County of the County

PERIODICALS AND NEWSPAPERS RECEIVED-

The Scotsman—Pharmaceutical Journal—Woodhull and Claffin's Weekly
—Dark Blue, April—The Middlesborough and Stockton Gazotte—Phila-delphia Medical Times—Medical Press and Circular,

APPOINTMENTS FOR THE WEEK.

April 15. Saturday (this day).

Operations at St. Bartholomew's, 14 p.m.; St. Thomas's, 94 a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Pree, 2 p.m.; Hospital for Women, 94 a.m.; Royal London Ophthalmic, 11 a.m.

Operations at the Metropolitan Pres Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Sectum, 2 p.m.; St. Peter's Kospital for Stone, 42 p.m.; Bor, 7 p.m.; Bor, 8 p.m.; Then Bond, M.B., "A Case of Lithotomy," Dr. Thorowood, "Genoc Cases of Heuris, with Effusion." Mr. W. C. Lake (of Teigumouth), "On an Epidenic of Fever at Shaldon, Deron."

18. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopædie, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Ophthalmie, 11 a.m.

BOYAL INSTITUTION, S p.m. William Pengelly, F.R.S., F.G.S., "On the Geology of Devonshire, especially of the New Red Sandstone."

19. Wednesday.

Operations at University College Hospital, 2 p.m.; 8t. Marye, 14 p.m.; Middlesex, 1 p.m.; London, 3 p.m.; 8t. Bartholomewe, 14 p.m.; Great Northern, 2 p.m.; 8t. Thomase, 14 p.m.; Samaritan, 2 p.m.; 8t. Thomase, 14 p.m.; Samaritan, 2 p.p. m.; Riversity of College Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmie, 11 a.m.

HUNTERIAN SOCIETY. 72 p.m.: Council Meeting. 8 p.m.: Open Meeting.

20. Thursday.

Operations at 8t. George's, I. pm.; Central London Ophthalmic, I. p.m.;
Edward Orthopoulds, § p.m.; West London, P. p.m.; University College
Blawman Society, § p.m. Mr. Fairlie Clarke, "On the Arrest of
Homorrhape, Primary and Secondary,"
Portal Instruction, § p.m. Prof. Tyndall, "Bound."

21. Friday.

Zi. Friddy.

Operations at Westminster Ophthalmic, it p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, it a.m.; South London Ophthalmic, 2 p.m.

Boyal Instruction, 9 p.m. Prof. Blackle, F.R.S.E., "On the pre-Socratic Philosophy."

VITAL STATISTICS OF LONDON. Week ending Saturday, April 8, 1870.

BIRTHS Births of Boys, 1995; Girls, 1005; Total, 2100. Average of 10 corresponding weeks, 1860-69, 2186.

DEATHS.

	Males.	Females.	Total.
Deaths during the week . Average of the ten years 1860-89 . Average corrected to increased population Deaths of people above 90 .	 760 762-6	783	1493 1479-9 1690

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1861.	Small-pox.	Meanles.	Searlet Fever.	Diphtheria	Whooping-	Typhus.	Enterio (or Typhoid) Fever.	Simple continued Ferer.	Diarrhose,
West		458125	7	1	7	2	10	1	1	3	2
North	***	618210	90	1	15	3	16	3	8	2 -	4
Central		383321	9			***	5	2		1	
East	***	571158	37	3	4		11		4	1	***
South	***	773175	71	10	10	1	11	2	.8	3	1
Total		2803989	214	15	36	6	53	8	11	10	7

METEOROLOGY.

From Observations at the Greenwich Observatory. 29°861 in. 43°1° 56°7° 29°1° 36°1° Variable. 0°01 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, April 8, 1870, in the following large Towns:—

	don in	Acre.	during April 8.	during	Ten of A	ir (F	ture	Temp. of Air (Cent.)	Ra Fa	dn ll.
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 1871	Persons to an A (1871.)	Births Registered the week ending	Deaths Registered the week ending	Highest during the Week.	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimotree.
London	3256469	41'8	2100	1493		29-1		6.12	0.01	0°08
Portsmouth	125464	13.3					45'4		0.01	0.03
Norwich	81787	10.9		38	53.0	26.0	39.6	4.55	0.02	0.13
Bristol	173364	87:0		74					200	***
Wolverhampton	74438	22.0				30.8		5-89	0.55	0.28
Birmingham	378574	48.3	255		57.0		43.9	6.61	0.13	0.38
Leicester	101367	31.7	50		57.0		42.1	2.65	0.01	0.18
Nottingham	90480	45'3			54.9	26'8	41.8	5:95	0.08	0.08
Liverpool	596225	103-0			53.9			6.83	0.04	0.10
Manchester	879140	84.2			60°0		43'4	5.78	0.10	0.50
Salford	123851	53.9			53.0		41.5	5-28	0.10	0.022
Bradford	148030	19.3	110		53.0			5:17	0.02	0.69
Leeds Sheffield	255247	11.8	174		54.0				0.07	0.18
	135195	38'0				200				V 18
	103037	31.5						***	***	***
Newcastle-on-Tyne	136293	25.2			19:0	32.0	39'5	4:33	0.18	0.46
Edinburgh	179944	4016	137	75		40-0	44'8	2.11	0.80	0.76
Glasgow	477627	94:3			55-4	2014	42.0	6:06	0.11	0.58
Dublin (City, etc.+)	822321	33 1	108		59-0	27.5	44'0	6:67	0.08	0.13
Total of 20 Towns		-		-	-	-	-		-	

Total of 30 Towns In United Kingd'm 7336961 84 4 4511 3541 60 0 25 0 42 4 5 78 0 10 0 23 At the Royal Observatory, Green wich, the mean reading of the barometer in the week was 29-36 in. The highest was 30-05 in. on Thursday ovening, and the lowest was 29-56 in. on Monday morning.

and the lowest was 20'0s in. on Monday morning.

Note.—The population of Gibles and Boroughs in 1870 is estimated on
the assumption that the increase since 160' has been at the same annual
very since the last census it is probable that the estimate may in some
instances be errorscus. The estimates for Leicoster, Nottingham, Leeda,
Fradford, and Hull are based upon a local cumeraction of the inhabited

 The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3rd inst., will probably be available before the middle of the year, and will then be substituted for these estimates. + Inclusive of some suburbs.

LECTURES. ORIGINAL

ON ORCHITIS FROM IRRITATION IN THE PROSTATIC URETHRA.

A CLINICAL LECTURE DELIVERED AT THE LONDON HOSPITAL.

By JONATHAN HUTCHINSON.

Surgeon to the Hospital, and Lecturer on Surgery. (Concluded from page 420.)

I WILL relate yet another case in illustration of our subject, and then proceed with comments upon them.

I had attended Mr. C., a gentleman of about 30, on account of a very obstinate gleet. Before coming under my care he had twice suffered from genorrhosa and genorrhosal orchitis, and instruments had frequently been passed on account of a slight stricture. Under my advice he abstained entirely from slight stricture. Under my advice he abstanced entirely from stimulants, occupied himself in country pursuits, and took alternately bromide of potassium and tincture of iron for several months. We abstanced entirely from the use of instru-ments and injections on account of his known liability to concluits. I had ascertained that he had no material stricture. We got him quite well of his gleet, and he had remained well for six months, when quite suddenly a discharge, resembling a fresh gonorrhoes, occurred. For this he used a weak injection treen gonormose, occurrent. For this no used a weak injection for a few days; the discharge then ceased, and he seemed well, but a week later the discharge returned. On this occasion he did not no injections, and on the same day that the discharge recurred his right cord and testis began to inflame. He had an recurrent in a control of the same usy that the should be attack of most acute creditis. The pain was such that in spile of the freest use of ice, opiates, etc., for a week he scarcely slept, and shout the tenth day I opened an abscess in the substance of the testis itself. I incised the tunica albugines freely, let out some thick dirty pus, and with the result of receiving the control of the testis itself. I incised the tunica albugines freely, let out some thick dirty pus, and with the result of the state of the same than the same that the prostatic inflammation.

These instances of inflammation of the testis in association with some source of irritation existing in the urethra are of with some source of irritation existing in the urethra are of great chincial interest. From the cases which we have cited, you will have gathered the facts that not only may the source of urethral irritation differ much in different cases, but that the course and events may also present considerable variety. Thus

we may have-

 Inflammation of the vas deferens only, as evidenced by deep-seated pain in the iliac fossa and swelling in the inguinal canal. This may subside, and the patient may get well without any further symptoms.

2. In connexion with inflammation of the vas deferens, an

absoes may form over its course, and may require to be opened through the abdominal wall, or may present at the external

ring.

3. The inflammation may involve the whole vas deferens, and extend to that portion of the testis which is directly continuous with it—viz., the epididymia, leaving the gland itself

In a fourth and last group of cases, the epididymis, body of In a tourn and user group of cases, the epindymas, body of the testis itself, the tunion vagrinalis, and the cellular tissue of susually serum only, and a speedy and complete cure by absorp-tion may be expected; but, in exceptional instances, suppura-tion may occur in the cavity of the tunies vagrinalis, and in others, still more exceptional, in the body of the testis itself.

By far the most common cause of orchitis of this kind is gonorrhoa; and we are all of us familiar with the symptoms gonorraca; and we are all or us familiar with the symptoms of this affection. I have taken many opportunities of pointing out in the wards that gonorrhoad orchitis presents certain features which are very characteristic; the cellular tissue of the serotum is almost always more or less inflamed, and there is evidence of some effusion into the tunica vaginalis; the swelling is almost always flat-sided, a condition due in part to the greatly disproportionate swelling of the epididymis, pushing the gland in front of it, and, in part, to moulding of the ordematous scrotum against the thigh; the two glands are

Vol. 1. 1871. No. 1086,

never inflamed at the same time; and lastly, if you examine carefully you will almost invariably find that the vas deferens is much thickened. Gonorrhoal orchitis almost always subsides is much thickened. Genorrhoal orchits almost always subsides spontaneously, and without any permanent damage to the gland; all that is necessary is to keep your patient in bed, to purge him freely, and apply ice to the part. Now and then, however, the severity of the inflammation may be such as to threaten abscess, or even to cause gangrene.

Before we proceed to the question as to the treatment of Before we proceed to the question as to the treatment or these cases, let us see if we can gain any light as to their true nature. What is the connexion between prostatic irritation and orchitis? The direct communication by the tube of the and organizer. Inc current communication by the tube of the vas deferens may be supposed to afford a resuly explanation, and my impression is strong that the facts which I have to-day quoted strongly support the opinion that it really is so; but I must tell you that there are two oreeds extant on this point, and a large majority of Surgeons hold, I believe, that orchitis from urethral irritation is an example of what is called symfrom urethral irritation is an example of what is called sympathy, and has nothing whatever to do with structural connexion between the parts. The abbs author of the article on writes, "There is no eridence in the greater number of cases that the inflammation travels along the vas deferens from the urushrat to the testide. I do not know this we can offer any other explanation of its occurrence than is conveyed by the term sympathetic." He adds, "The course and symptoms of the inflammation are much the same whether it accompany generates or other inflammation of the urethra, or be excited by some other cause. The epithdymis is the part first and chiefly affected. Attention is attracted to the malady by pain, which, after a time, is felt not only in the scrotum, but in the groin, the film region, and in the loins." Now, his expression "after a time" is a according to any expression. term sympathetic." He adds, "The course and symptoms of gron, the line region, and in the loins." Now, his expression "after a time" is, according to my experience, an error in observation. I believe that whenever there is pain in the cord that pain begins before the epididymis is affected; and I believe, further, that if the vas deferens be carefully examined. you will almost always find clear proof that it is thickened and inflamed. We have used this symptom in the wards conand innamed. We have used this symptom in the wards con-stantly as a means of diagnosis between orchitis preceded by most approximate the property of the property of the not at present recollect a single instance exceptional to the view which I have stated. Gonorhood orchitis often spreads very rapidly, and twenty-four hours may be quite sufficient for it to involve the whole of the van deferena, the epididymis, and the testis itself; when once this has occurred, the attention both of the patient and Surgeon are concentrated on the testis, and the state of the vas is rarely inquired into minutely. In favour of the opinion that the inflammation does travel through the vas, and that sympathy or metastasis have nothing whatever to do with the orchitis, I venture to insist upon the following facts:—1. That, as already stated, in a vast number of cases there is conclusive proof that the vas is involved. 2. That in a few cases the opportunity occurs for observing that the vas is inflamed before the testis is involved. 3. That now and then the inflammation begins and ends in an inflammation of the vas, and never gets to the testicle at all.

4. That, according to the admission of all Surgeons, the orchitis begins in the epididymis—i.e., in the part directly continuous with the vas deferens—a fact which the theory of sympathy

cannot in the least explain. The only fact which, to my mind, is difficult of explanation on the theory of direct extension, is that the orchitis is scarcely ever symmetrical; although it is not at all uncommon to have one symmetrical; although it is not at an uncommon to have one tests inflamed first and the other subsequently; and now and then it neems to alternate from one to the other—a condition to which M. Ricord has given the name "see-saw orthits." Now, one would certainly have expected, if the inflammation of the testis be due to direct extension from the vas deferens, that though many cases might be one-sided, yet that every now and then it would happen that the tube on both sides would be attacked at the same time. Of those who have gonorrhea, or attacked at the same time. Of those who have gonorrhoa, or who suffer from other sources of prostatic irritation—the use of catheters, etc.—an extremely small proportion ever get orchitis, and of this small number it is to be expected that only a very few would chance to show this rare complication on both sides at once. Still, unless there be some reason why it should not be symmetrical, we should certainly look for the coincidence of a double orchitis now and then. I have seen gonorrhoeal a double orenitis now and then. I have seen gonorrhead orchitis double, but I grant that it is a most rare event. Another reason for believing in sympathy which has been adduced by some anthors is the well-known fact that when the testicle inflames the urethral discharge diminishes. But of this another explanation is easily found, and I quite agree with the author of the excellent article from which I have quoted.

and from one of whose opinions I have ventured to differ, that in this matter cause and effect have been confused. Is it not probable that the acute inflammation of the testis, acting as a most efficient form of counter-irritation, is the cause and not the consequence of the reduction of the urethral discharge? I am glad, also, to agree most fully with another remark of the same author, to the effect that the risk of orchitis in gonorrhoea is no reason whatever for not resorting to the abortive plan of treat-ment. Dr. Humphrey writes: "So long as the discharge lingers, so long is the patient liable to swelled testicle, and those measures so longus mer parent manute ownered essure, and those measures are most preventive of the latter affection which most quickly put an end to the former." Fully believing in this doctrine, I invariably adopt abortive measures in all stages of genorrhoa, and believe that by doing so I much diminish the risk of orchitis.

The discussion as to the immediate cause of these forms of orchitis, although of great physiological and pathological interest, does not very much concern treatment; in any case, whether we believe in sympathy or in continuous extension of inflammation through the vas, one indication is to allay urethral

irritation

We will now pass to a few remarks concerning the treatment of the orchitis. I have already specified the measures required in the gonorrhead form, and have only to add a few remarks in the according the according cases of extreme severity. When in the gonormous form, and mave only on an arrive regarding the exceptional cases of extreme severity. When the pain is intense, and when it persists in spite of the use of ice, I believe that the practice of incisions is not only safe, but very valuable. Some Surgeons are in the habit, even in ordinary cases of gonorrhoal orchitis, of seeking to relieve tension by making one or more punctures into the tunica vaginalis, or even into the testis itself. I believe that we may accept the results of their experience as proof that such punctures seldom do any harm; to most of us, however, they scarcely appear to be necessary. In recommending incisions, I am speaking rather of the exceptional cases in which abscess is threatened; and in looking back on my own experience, I am certainly inclined to regret, respecting several cases which I remember, that I did not make inclisions earlier. A free incision into the tunica not make incasons earner. A ree incision into the tunes variantial saids to no ill consequence whatever, excepting the inconvenience of suppuration of the sac; and if you chance to let out put the relief is immense. A free incision through the tunica albugines into the testis itself does not lead to gangrene of the testis, nor always even to fungous protrusion. When the testis is swollen, it appears to relieve pain, much with the same certainty that iridectomy does in acute glaucoms, and my impression is that it is likely in critical cases to diminish the danger of gangrene on the one hand, and of consecutive atrophy on the other.

ORIGINAL COMMUNICATIONS.

ON THE OCCURRENCE OF

EPILEPTIC ATTACKS AND OF MANIA IN CONJUNCTION WITH CHOREA:

IRREGULAR EPILEPTIC ATTACKS.

WITH ILLUSTRATIVE CASES.

By JAMES RUSSELL, M.D., F.R.C.P., Physician to the Birmingham General Hospital.

(Concluded from page 392.)

I have next to detail the three remaining cases (to which I have added a fourth), in illustration of the irregular epileptic attacks I referred to at the commencement of this paper. The first two are instances of "unilateral epilepsy," in which the Bret two are instances or "unitateral epuepsy," in wince noe spasans, or the altered state of innervation connected with them, are not only unilateral, but do not occur simultaneously in all the parts of the limb to be affected by them, as in the ordinary opileptic fit, but run up the limb, affecting successive portions with greater or less rapidity, sometimes with considerable deliberation. In one instance the fit was followed by able deliberation. In one instance the fit was followed by temporary paralysis and ansesthesia in the affected limb; in the other, by temporary numbness. I would call attention to the support afforded to Dr. Hughlings-Jackons' e observation by these two as well as by the next following case, to the effect that when the access of the spasm is sufficiently deliberate for its course up the limb to be traced, in the case of the upper extremity the forefinger and thumb will be found to be the parts first affected, being those most largely represented in the

brain. It is in this manner that the (so-called) aura is produced—a phenomenon seldom met with in its characteristic form in the diopathie epileptic fits, where the different regions of the body are attacked simultaneously.

Judged by the analogy of similar cases in which post-morten examinations have been made, these two cases should be examples of epileptiform attacks depending upon "organic disease" within the cranium; but in the details of the cases themselves no reliable evidence is afforded of such disease being the second of the cases of one, since it involves, also, the inquiry, whether, in treating the patient, we shall content ourselves with remedies such as bromide of potassium, which allay the condition of the nervous centres immediately producing the fit; or, whether we shall give medicines supposed to exert a specific influence upon certain forms of cerebral disease—antisyphilitic medicines being, of course, those which would first occur to our minds.

The other two cases are merely examples of peculiar attacks, The other two cases are merely examples of peculiar attacks, which may or may not be called quileptic, according to the saft is not unlikely that they depend for their immediate pro-duction upon the same condition of nerve-tissue with that pro-ducing the attacks of essential epilepsy, though the part of the nervous centres affected in the attack is different; but the nerrous centres affected in the states is amorem; that the entirely exceptional character of their symptoms would prevent their being placed in the idiopathic class in any examination of the natural history of that disease. I might add another case, in further illustration of these remarks, in which I possess a history of the last twenty years of the patient's life, fifteen of nistory of the last twenty years of the patient's life, inteen of which were marked by a yearly recurring single but protracted peroxysm of symptoms, connected apparently with the medulla oblongata alone. The patient was perfectly healthy between the attacks, and now has enjoyed uninterrupted health for five

Case 3 .- Unilateral Progressive Convulsion.

W. A., aged 35. He has had numerous attacks during the last nine months, affecting the left side of his body only. ness ame mounts, arrecting the test ade of his body only. They consist of a peculiar "screwing" sensation, which begins in the end of the thumb and forefinger, gradually creeping up the arm to the shoulder, thence to the left side of the neck and face and to the left size in mediation of the left side of the neck and the arm to the sounder, denote to the left special to the left special that are and to the left special that are the special to the left special that are the special to the left special that are special to the special to the special that are special to t

at all affected, though he is quite unable to speak as all effected, though are is quite unance to spean. The Ernet This is the secount given by the patient, it is the Ernet This is the secount given by the patient, which the does these fits, and gave use the following excellent description of what took place, accurately describing the order in which the muscles were successively affected:—First, in the lett forefinger rapid abluction and adduction took place, and then rotation in a circle; in a few seconds, the left angle of the mouth began to twitch, these movements going on together for about two minntes, when movement of the thumb was added to that of the face and forefinger, and in another half-minute all the fingers of the left hand were twitched. Next occurred alternate flexion and extrusion of the wrist; the depressor muscles of the chin were also engaged, and those of the hyoid bone, causing a guttural noise; the left sterno-mastoid the hydio form, causing a guttural mose; the left sterno-mastoni and some fibres of the platymas also quivered; the left sale of unaffected, but the left orbicularis and corrupator were weakened. The tongue was protruded direct. In about five minutes the left elbow moved gently in flexion and extension, and the left percoral quivered a little.

The patient was perfectly conscions throughout. The pupils were equal and rather dilated. At the end of about five minutes, the convulsive movement began to relax, and subsided in an order inverse to that in which they came on, the forefinger continuing to move after all other action had ceased, The patient asserts that a peculiar sensation also occurs in the left lower extremity. Paralysis of the left side of the face (the angle of the mouth and orbicularis of the eye, of the hand and wrist, and, to a less degree, of the elbow followed the fit, and lasted for half an hour; and, as I afterwards observed, a peculiar abnormal sensation remained for somedays in the thumb peculiar abnormal sensation remained for somedays in the thumbs and forefinger. The paralysis, however, is an entirely new cocurred on the day before his admission. On that occasion the day before his admission. On that occasion the day before his admission. On that occasion that descread fits, and, as he came to the surgery, Mr. Elkington had an opportunity of observing that paralysis remained after each. On the next day, I discovered may have dearest make the case.

contact in the hand and forearm, and, to a less extent, in the upper arm.
The patient's family is free from nervous disease.

sented uo other evidence of cerebral disease. I could get no proof of the presence of syphilis. His urine was free from albumen; his heart's sounds were pure. Mr. Hodges, House-Surgeon of the Eye Hospital, found

vision good in both eyes, but slight weakness of the left internal rectus; there was some fulness of the retinal veies; the disas were healthy. The patient took indide of potassium in half-scruple doses for seventeen days without a fit recurring: he then left the Hospital.

Case 4 .- Unilateral Progressive Twitching and Abnormal Sensations.

W. B., aged 47, a man of irregular and intemperate habits, who had had syphilis with loss of hair three years ago, had his first fit fourteen months ago. As he was dropping off to sleep, something rau up his left arm, and he became unconscious, conrate up may be a ran, and he became unconserved, con-tinuing so for ten minutes. He was left with weakness of the lott side, but not sufficient to confine him. His speech was alightly affected for a few days, and he had twitching in the left side of his face. For a fortnight before the fit, he had a dead feeling

ans meet. For a fortugat before the fit, he had a deed recing in the left forefinger; and the day before, some twitches of the left hand and arm, "working it like a pump-haudle." Ever since this fit he has been liable to what he calls fits of "tritching" in the left hand; they begin in the left forefinger "as if the blood can't work in it," lately the second inger, and now the blood can't work in it;" lately the second finger, and now the thumb, have been similarly affected. He speaks of it as "a fearful sensation," thus indicating some accompanying cerebral change. Then follows twitching "inside" the arm; on one or two occasions "it has worked his arm badly." "It works up the nerves of the arm, up to the left eye and check." He never loses consciousness. In two or three minutes the attacks go off suddenly," as if the blood was set free," but the hand remains numbed for some days. Since these attacks he has suffered from pain all round his head, with

At his admission the muscles of the left side of the face did not act quite perfectly, but the left hand grasped strongly. The tongue was protruded direct. Marked anæsthesia existed in the first finger, to a less degree in the second finger and thumb. The movements of the eyeballs, sensation in the face, taste, and smell were normal. Vision was good (No. 1 Brilliant) eases, and since were normal. Vision was good (No. I Brilliant) though accommodation was not perfect; pupils were small but active. My friend, Mr. A. Bracey, of the Eyo Hospital, found the discs healthy. There were no albumen, no present signs (local or general) of syphilis, no tenderness, etc., of the scalp, nor fixed pain in the head.

Case 5 .- Paroxysms of Disorder in the Organic Functions, alternating with Progressive Convulsion of both Upper Extremities.

Mrs. S., aged 42, whom I saw with Mr. Bradley, has been subject for five or six years to attacks of diarrhoea, lasting from three to six or more days; in these attacks she voids large quantities of fetid "black water," even to the amount of a chamber-pot full during the night. Mr. Bradley entirely confirms this statement; he saw, at least, three pints of brownish fluid intolerably fetid, containing flakes of solid brownish fluid intolerably retid, containing makes of some mucus, which was but a part of one night's evacuation; some-times she has as many as twenty-five stools in twenty-four hours. The attacks are attended with cramps in the abdomen, legs, and feet, but not in the upper extremities, and with vomiting intervals are usually of about a month's duration; but during the last two years, as the paroxysms of purging subside, conthe last two years, as the purcystans of purging seasons, that reaction of both hands comes on, accompanied by pain up the arms, lasting two or three days; the abdomen and lower extremities, the seat of cramps during the diarrhos, remaining the diarrhos, remaining the diarrhos, remaining the diarrhos, remaining the seasons. The contraction of the hands begins with pain in quite free. Ine contraction of the hands begins with pain in the first finger, next in the thumb, afterwards in all the fingers. At the time of my visit the right hand was contracted in the manner I have described, the muscles of the forearm and the intrinsic muscles of the thumb being very firm. The back the intrinsic muscles of the thamb being very irm. The near of the hand was renarkably pnffed, and the veins wro dis-tended exactly as in a gouty attack. The left hand was just recovering, but much puffines remained at the back, and the knuckles were red. Her face also was visibly puffe, and she complained much of this symptom. Lately she has had for sudden vertigo, and has even fallen; but she does not become unconscious.

I failed in discovering any explanation of the attacks in the state of the abdomen, nor had she any permanent symptoms of cerebral disease. When the attacks subside she goes about her business as usual. Her heart-sonnds are healthy; her urine is free from albumen. There is no known case of nervous disease. in her family, but she has lost fifteen brothers and sisters, though I cannot obtain a clear history of the cause of their death. Case 6 .- Repeated Attacks of Sudden and Temporary Loss of Sight.

E., aged 19, in August, 1868, had been subject for a year to attacks of dimness of vision. They were perfectly sudder; the became red in the face, put her hand to her eyes, and ex-claimed "I can't see; I don't know where I am," and groped about as if blind. She recovered in a minute or two, but subsequently the attacks lasted longer-she said for five minutes, though probably this was an exaggeration. Objects were indistinct, but not perfectly obliterated. There were no other visual aberrations, and between the attacks she was free from all symp-tums of disease. The attacks at last occurred four or five times a day. Under a prolonged course of aloes and steel, with bromide of

on the chief a protonged course of mose and stee, with oromide of potassium, she entirely recovered by the end of the year 1868.

The attacks returned in April, 1870, accompanied by brief fits of double vision, affecting objects placed in a direct line with her nose. She was still free from any other symptom. On this occasion, unlike the last, the bromide produced such extreme torpor that ouce she was found asleep on the doorstep which have been as the same was found asset on the decrete which she was engaged in cleaning. At the same time she manifested much dulness and poculiarity of manner. I omitted the bromide, substituting tincture of digitalis. I did not see her frequently, but on August 18 I found that the attacks had again ceased for some time, and that she was in her ordinary health.

I was indebted to Mr. A. Bracey for repeated examinations of her oyes; but they failed in determining whether the loss of vision was due to changes in the vessels of the retins or in the apparatus of accommodation. The optic disc was quite healthy, except, perhaps, a little under hierarchy was perfect, and the pupils were active; but in the second illness Mr. Brace with the right eye, and that with difficulty; with the left, No. 1. The pupils were active; but in the second with the right eye, and that with difficulty; with the left, No. 1. The pupils were active; but in the second, with the right eye and that with difficulty; with the left, No. 1. The pupils were still normal. In the first liness the suscellar apparatus was healthy; but in the second, with the right eye is not perfect, was discovered. This later alrectif examption subsequently disappeared; but vision in the right eye is not perfect. is not perfect.

is not perfect.

The patient's family is free from nervous disease. She was amenic, and suffered from constipation; her meastruation was irregular; her heart was healthy; her urins free from albumen; her nose was healthy; and smell was natural; her front teeth were well formed; abe had no decayed teeth in her month, and never had suffered from discharge from her ears.

As a companion to the last case, and as showing that more than one influence may operate in producing such attacks, I may add a brief note of a female, aged 30, whose sister is a confirmed epileptic, whose cousin is opileptic and imbecile, and who herself has long suffered from mental depression. She has experienced, during the last twelve months, attacks of in-

has oxperienced, during the last twelve months, attacks of incomplete loss of vision, lasting three or five minutes, and occurring two or three times in the day. She has also vertigo with the attacks. She had a loud acrite bruit.

Mr. Owen, formerly House-Surgeon to the Eyr Hospital, reports that she has had chordiod-retinitis, having patches of choroidal atrophy and pigment irregularly deposited in the choroid. She is alightly mayoic. There is no recont mischief. She works at gold-chain making, using the gas flame in her orecentions. operations.

THE Sanitary Inspector of the Strand Union was summoned upon the jury, on Monday, in the Court of Common Pleas, and as he considered the duties he had to perform—viz., From, and as he consucred the duties he had to person—vill., visiting places where patients were, or had been in, removing infected clothes, and other sanitary work—he appealed to Mr. Justico Willes whether his Lordship did not think it inconsistent his sitting in the jury-box. His Lordship agreed with the jurymen, and excused him from further attendance. In the contract of the property of the p

DR. FARKEAND has published the result of an inquiry into the position which England occupies in chemical research. It is instructive. In 1866, 1278 papers on new discoveries were published by 805 chemists, 1.68 paper being thus the sverage produce of each investigator. Of these, Germany contributed 777 papers, by 46 authors, France, 265 papers, by 170 authors, and England 127 papers, by 97 authors, or 1 31 parts of the 187 papers, by 187 authors, or 1 31 parts of the 187 papers, by 97 authors, or 1 31 parts of the 187 papers, by 97 authors, or 1 31 parts of the 187 papers, by 97 authors, or 1 31 parts of the 187 papers, by 97 authors, or 1 31 parts of the 187 papers, by 97 authors, or 1 31 parts of the 187 papers of 187 ings and apparatus for the prosecution of investigations; secondly, the non-recognition of experimental research by any of our Universities.

CHLORAL HYDRATE: ITS USE IN LUNACY PRACTICE ILLUSTRATED.

By N. G. MERCER, M.D. Edin., Senior Assistant Medical Officer County Lunatic Asylum, Lancaster.

THE addition of an hypnotic agent of high value to the resources of our Materia Medica is obviously of the first importance in the Medical practice of asylums. Apart from the mere curative power exerted by drugs which are administered with the view and effect of producing sleep, it soon becomes apparent, the view and effect of producing sleep, it soon becomes apparent, in an intercourse from year to your with the society of a large wonderful degree by making their noisy neighbours of peaceful habits, especially during the night. It will savetly be considered a slight upon some highly respectable soporfic medicines, which have been crewfulle recommended, and employed. from time to time, if we summarise the results of experience by saying that, when contrasted with opium and its preparations, their ntility dwindles into comparative insignificance. It tions, their utility dwindles indo comparative insignificance. It would be not of place here to dilate at length on the precious infirmity. Let me, however, make one observation, which must be familiar to all asylum Practitioners—viz, how great is the chauge for the better produced in the general comfort of a ward where a patient of particularly or continuously noisy as ward where a patient of particularly or continuously noisy. habits lives, by the administration to that patient of morphia atintervals. Under its influence clamorous excitement subsides; a disposition to quarrel is for a time completely subdued; obscenity, execrations, and abuse no longer constantly offend the cars of convalescent and of sensitive neighbours; and it is well understood that a temporary tranquillity of mind in a person with such troublesome tendencies is attended (for the quieter inmates of the ward) with a transition into a state of quoter inmates of the ward) with a transition into a state of comparative Elysium. These remarks especially apply to the female wards, and it is improbable that any remedy will be found to supersede opium in achieving such results. Unfor-tunately, however, the sedative effects of the drug become less and less marked by repetition of the dose, and it requires to be and less marked by repetition of the dose, and is requires to be increased before they are developed; ultimately the medicine is for a time abandoned, so that its action may possess increased impulse when resumed. The inconvenience felt from first having to enlarge to a great extent the dose of opium, and again from having to intermit its administration on account of the negative results, has been especially experienced when a full hypnotic action has been sought, and the medicine is given in the form of a draught at bed-time. This leads me to observe that, need with this object, the chloral hydrate appears to possess certain advantages. Thus, suppose thirty grains of the latter medicine be given in a draught to a restless and sleepless patient, and a good night's sleep follow its exhibition, we shall all that the drag does not lose its potency by repetition; as after the lapse of a few weeks, during which time it has been regularly taken, the same quantity of dose will produce effects as marked and as happy as when first any medicine claiming to rival opinus I will be appreciated any medicine claiming to rival opinus I will be appreciate the pelled, by experience of the virtues of chloral hydravity over any opiate as regards the effects of an uniform dose. I will now proceed to give notes regarding some cases in which in the form of a draught at bed-time. This leads me to observe will now proceed to give notes regarding some cases in which its use was fairly tested, and some are included in which the medicine, like previously tried large doses of opiates, failed to produce any sensible benefit. The cases given are those of the most excited women-patients that have been in the Asylum of late years.

1. A young woman, 25 years of age. A case of recurrent mania, having been under treatment here seven years ago. At mania, naving occu under treatment nero seven years ago. At first was extremely restless, noisy, and sleepless during night. A draught containing twenty-five grains of chloral hydrate was administered, and its action as an hypnotic was most prompt and unmistakable. Two or three times it was accidentally omitted, and the noisy habits became as bad as ever. By day the patient was hysterical, and very prone to violence, but was sac passes was systement, and very prone to violence, but was treated only by exercise, liberal diet, and occasional aperients. The draught, in an uniform dose, was continued for about six weeks, when, from the stage of improvement then attained, it was left off. Recovery went on rapidly, and the patient has since here displacement. since been discharged.

2. A case of recurrent insanity in a young woman, a few years older than the last, presenting many symptoms in

common, with the additional one of dirty habits. The noisy habits by night were perhaps even more marked, but were equally successfully combated by a chloral draught of the same strength. She was soon enabled to dispense with the draught, but the further progress of the case has been far different from that in the other, as habits of determined violence—the offspring in part of delusions, and in part of a naturally revengeful disposition—still, after the lapse of a year, continue, and necessitate constant watching.

3. A puerperal patient, 31 years of age. Her first attack. Presented peculiar delusions of fixed kind, such as that she was John the Baptist, etc., which are not common in this form of insanity. Slight improvement in her general conduct was soon manifest, and she went to work at the laundry, where it was necessary she should pass the night in a large dormitory, with many fellow-workers, also patients. Her noisy habits by night soon made her obnoxious to her neighbours, and ultimately her shouting and screaming became so dreadful that the step mer snouting and acreaming became so dreadful that the step of remoring her back to a gallery was in contemplation. This necessity, however, was completely obviated by a chloral draught. The done given was thirty grains, and, during a course of many weeks, no increase was required. An occasional accidental omission proved its extreme usefulness. Many months have now elapsed, but permanent amendment in mental

months have now elapsed, but permanent amendment in mental aberration has not, 1 regret to say, taken place.

4. A girl, 29 years of age. Said to be deranged in mind as sequela of rheumatic fever. By day suffered from symptoms of mixed melancholy and dementia. Her expression was one of great anxiety and suffering. We adult in apprehension, with wild look about the eyes, and tremors of the limbs, and required feeding. A suicidal tendency being strongly marked, she was placed ing. A suicidal tendency boing strongly marked, she was placed to sleep amongst others in a large dormitory, where, however, she soon began to raise a loud, screaming, and affrighted noise, to the great annovance of some highly fastidious neighbours. Thirty grains of chloral hydrate were given in this instance, with the most advantageous result. During a course of over five weeks, no increase of dose was required, and the medicine did not fail of its purpose. An evanescent rash of the character of tritoria appeared on several occasions in the morning when the draught had been taken on the night before, and there was also some flushing and burning of the head and face. Though these phenomena were thought to be due to the medicine, it was not deemed desirable to forego its good effects by reason of such a modified and transitory unpleasantness. The patient's progress towards recovery was tardy, but, in the end, very sure and satisfactory, and she is now no longer an inmate.

5. A girl 16 years of age; likewise a recurrent case. In the day-time she was at first so excited and noisy that morphis uny-mue ane was as first so excuted and noisy that morphis was given with a view to moderating the disturbance she made in the ward. Its success was temporary. Her nights, also, were noisy until a chloral dranght containing twenty-five grains was given, which served its purpose perfectly. On the morning succeeding the first administration of the draught, morning succeeding the first administration of the draught, the appearance and symptoms of the patient had undergone as wonderful change for the better. Her natural interest in tidiness of dress and person, her habits of industry, and her coherency of conversation were so remarkably restored to her, as the apparent consequence of a good night's rest, that I flattered myself with the hope that decided convalence that added by Super. On the omission of the draught and the state of th her worst symptoms were at once re-established, and as strongly marked as ever. Although its use was resumed, and with the same gratifying results as regards its sleep-producing power, it was long before symptoms of amendment again appeared. Sound sleep, without the administration of medicine, was by-and-bye procured, but it was not before she had been four and-type procured, that it was not before a see had been four months an inmate that she was deemed sufficiently restored to sanity to warrant her discharge. This, also, was a case in which a rather more obstinate nettle-rash was observed on the day following the administration of the chloral draught. There day tolowing the summirration of the contrat craquit. Inex-was also some flushing of the head and face, though not as-marked as in the case last described. If I may be allowed to draw an inference from these two cases of urdicaris resulting apparently from the patients taking chloral hydrate as a drught, I would be disposed to say that the cutaneous rash is more likely to occur in highly sanguine temperaments, of

is more likely to occur in highly singuine temperaments, of which these two girls were striking examples, 37, years of age, 6. A case of chronic manis, in a woman, 37, years of age, 6. A case of chronic manis, in a woman, 38, some of age, 6. A case of chronic manis, in a woman, 48, some of age, 6. A case of chronic months age, abe became very noisy by night, as well as offensive in her conduct. She slept in a dormitory, her removal to a single room being deemed inexpedient, on account of a well-known suicidal tendency. She complained of spirits constantly flying about her head, and these, with other delusions, made-induced and the suicidal tendency.

her life extremely unhappy, and, in the night-time, compelled her to seek relief in lamentable cries. Twenty-five grains of chloral hydrate acted upon her like a charm. So long as she presented the kind of symptom described, this draught was continued, with the same good effect. A complete change in the phenomena of the mental malady, of which one feature consists in her now preserving unbroken silence both by day and night, has made further administration of the medicine uncalled-for.

7. A woman-patient, 44 years of age, with symptoms of chronic mania, and who has been many years in the asylum, is subject to exacerbations of mental disturbance, during which her nights have usually been passed amidst constant vocifera-ting. Had such an attack a short time ago, and took regularly for six weeks a draught containing thirty grains of the hydrate at bed-time. The consequence was there was no further complaint about her on the part of a large number of inmates who

plaint about her on the part of a large number of immares wno slept in the same dormitory.

8. The case of a female, 62 years of age, who for the last thirty years has come and gone between her home and the Lancaster Asylum, although this time she has been under treat-ment for over ten years. She is now detained in consequence of increased seriousness in her relapses, their longer continuance, and their greater frequency. During her lucid intervals he is a person of most amiable disposition, but in her excitement homes wheaten when the victore as well as the property and in the con-traction of the contraction of the contraction of the contraction of the con-traction of the contraction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the contraction of the con-traction of the contraction of the co a person of most amiable disposition, but in her excitement becomes obscene, prone to violence, and extremely noisy in the night-time. The last symptom has usually been met by opiates, but the effects of these soon became uncertain and partial. On the occasion of the last recurrence of excitement, a chloral draught, containing twenty grains, was at first tried to control the sleeplessness, and for a week it served the purpose of a the steepissaness, and for a week it served the purpose of a perfect hypnotic. It was one night omitted, however, and she again became boisterous. On its resumption, completely tranquil nights were not obtained until the more considerable dose of forty grains was reached. The draught was repeated every of forty grains was reached. The draught was repeated every night during many weeks, and no enlargement of dose was demanded. The personal testimony of this patient as to the efficacy of the medicine was very pleasing, as her accounts of her sensations are quite reliable; and she mentions how greatly her nightly distress was ameliorated by the administration of the draughts.

9. There is a woman-patient, 53 years of age, who, during the diw, works industriously at the washhouse, but in the night-time requires the use of a single-bedded room in consequence of the frightful noise she makes. The gallery where she spends the night was made vocal with her shouting, and she spends the night was made vocal with her shouting, and opiates were given up as perfectly imposent to control the insomnia. The chloral hydrate was tried, and when a does of sixty grains was reached, the woman's reputation for noise became practically lost. Since this discovery of its efficacy in the present case, I cannot say that a draught has been given with perfect regularity, but when the woman's noisy conduct is at its worst, the above does in always sent, and its success is

predicated with certainty.

10. A case which shows that the drug, whose value we are illustrating, is sometimes attended with negative results when given as a hypnotic dranght. We have a woman-patient here who has been an inmate over two years, and who, some years ago, was treated at another asylum for an attack of melancholia, from which she recovered. On the return of mental failing, it assumed the form of intense maniacal excitement—a change it assumes the form of mease maniacat excitement—a canage in phase which is usually regarded as of evil omen, and apparently with the best of reasons. The woman had scarcely pessed a quiet night for mywards of eighteen months, and by day was continually shouting, quarrelling, singing, and getting that all sorts of mischief. Powerful opties were offen tried in the case, and never once with the slightest benefit I am sorry to have to add that the chloral hydrate has not proved sorty to have to said that the colorest systems as not proved more useful. It has been given in doses graduated from twenty grains up to seventy-five grains, but it did not appear that one additional wink of sleep was obtained from its exhibition. There might have been no harm, perhaps, in exceeding the last-mentioned dose, but, considering the marked good effect of doses many times smaller in other cases, and that no symptom giving any forecast of improvement in this instance was observed, it was not deemed advisable to push the remedy. It may not be out of place here to observe that the condition of this woman's brain, at occasional seasons, appeared to constitute an instance of what can searcely be considered other than partial repose of the metal faculties, short of what we regard as ordinary sleep. Without entering upon the question, which I have. however, nowhere seen discussed, as to what is the minimum of sleep that will satisfy the requirements of physical human nature, I positively know, from the most trustworthy source, that of sleep, in its usual form of visitation, this female patient that of sleep, in its usual form of visitation, this female patient has for months together got next to none; yet her vigour of constitution and the functions of physical health remained all the while unimpaired. Within the last few months a change for the better, with which medicine has no connexion, has taken place in some of the symptoms, but chiefly in that of the noisiness during the night. Although the mind during the day is nearly as maniacal and demonted as formerly, a disposition to be noisy at night has now entirely left the patient.

11. Another instance of marked disappointment in my experience of the medicine occurred in the case of a woman who presented many features in common with the case last described. The woman is 38 wars of age and during The woman is 38 years of age, and, during my period of office here, was previously under treatment for an attack of melancholis, having been discharged recovered after a residence of five months. She returned to the Asylum in three months after going home, with an attack of general three months after going nome, with an auser of goneral mania. Opiates in very large doses, both as a partial sedative at intervals in the day and as hypnotic draughts at bed-time, were often given with very temporary—though very marked— advantago. The first specimen of chloral hydrate received hero was on the occasion of a visit from Mr. Reynolds, of Leeds, and was set apart for this patient's use. Although, Leeds, and was set apart for this patient's use. Anthough, however, draughts of equid attength to those given in the case last mentioned were administered, not the slightest improvement was noticed in her nights of wearing, exhausting excitement, and sometimes incessant rettlesenses. Our faithful and intelligent night-nurse declared in this instance in favour of the virtnes of the older remedy-viz., the muriate of morphis. This case, some time ago, also underwent a change in its phase independently of special treatment, the mind having somewhat cleared up spontaneously, and nights of fair sleep being now frequently obtained.

From a study of these cases the following conclusions on the virtues of chloral hydrate given as an hypnotic draught se fairly deducible:—1. In very many bad cases of noisy habits during night it is a powerful and efficient hypnotic, and more certain than an opiate. 2. The effects of the drug do not fail of development through long continued use of it in an uniform In the most intractable cases of noisy habits it is probably of less service than an opiate-such cases, it would seem, as those of intensely maniacal and excited patients who in a previous attack of mental derangement presented the

symptoms of melancholia.

Given thus, then, as an hypnotic draught, the chloral hydrate appears entitled to a high position in the future of lunacy practice. As the progress of recovery proceeds apace with the establishment of sound sleep, it is obvious how, as a therapeutic agent, its effects must be in a very large degree curative and remedial. This remark applies to attacks of acute disease, But surely, in the chronic insane, that mental agony produced by the constantly-returning presence of delusive voices and visions in the long nights of maniacal clamour and excitement is an object scarcely less worthy of attack and of relief than is the ensation of pain in those who are of sound mind. The collateral happy results of this artificial rest are not to be measured

lateral happy results of this artificial rest are not to be measured except by those who are themselves the nerrous, timid, and excitable neighbours of patients whose constant habit it has been to 'make night hideout.' By their crise as being some of the earliest which were used to test the efficacy of chloral hydrate in this kaylum. But it has been largely employed in a great number of other cases, including some of soute mania, of hysteria attended with suicidal impulses, and of general paralysis accompanied, as it so often is, with dangerous and axiefall batteria from a dermitory to a sincip room. Security of the source is a said of the source of th suicidal patient from a dormitory to a single room, because in the latter, with all the means at our disposal, a patient bent npon self-destruction might probably concoct a plan to compass the ghastly purpose. A medicine which will enable such a the ghastly purpose. A medicine which will enable such a patient to pass tranquil nights among watchful neighbour an associated room is one whose precious service cannot be over-estimated. I have not been able to verify the observation, put forth upon respectable authority, that the hypnotic effects of chloral hydrate are sometimes postponed for twenty-four hours; that a draught given to-night, for example, will not affect the patient's alcoplessness to-night, but will cause it to vanish to-morrow night, without repetition of the draught, Should such apparent connexion between supposed cause and effect arise, it seems to me it would be very difficult to esta-

blish its reality unassisted by imagination.

It only remains for me to add that any attempts which I have made to substitute chloral hydrate for opium as a partial sedative by day have been attended with negative

results. I gave up using it for this purpose, as morphia was found far more neeful. Thus, to a restless, meddling, and found far more næful. Thus, to a restless, meddling, and noisy general paralytic, aged 30—pengeral case—who is in the third stage of her disease, twenty-five grains of chloral hydrate were given at intervals, but her excitement was not subdued until abe had full doses of morphia. The chloral has made some patients sleep in the day-time, but has produced no tranquil-lising influence during their waking hours. My best thanks are due to Mr. Broadhurst, F.R.C.S., the Medical Superintendent, for his kind countenance and help in testing so far the uses of this drug in imacey practice, (a)

ACUTE RHEUMATISM IN THE TROPICS. By JOHN SULLIVAN, M.R.C.P. Lond.

During the course of my practice in Havana, I have frequently observed what modern pathologists teach—viz., that disease of the heart, which sometimes accompanies or succeeds an attack of acute rheumatism, may be the precursor, or antecedent, or often independent, of rheumatism in the muscles or ioints.

A person, while in a state of profuse perspiration, or to mitigate the inconvenience attendant upon great heat, removes his upper clothing, and exposes himself to a sudden change of temperature. Soon afterwards he complains of pain in the loins, but—unlike lumbago, in which the pains shoot downwards—the Defore DACKWARDS. CROULD these symptoms be regreeneed, as endocardial mirrmur will soon be heard, especially towards the apex. Or the patient may be seized with a pain in the chest; with a hard, dyr cough, and symptoms of pleuritis. During the year just passed, I have treated five cases of acute rheumatism, all usbered in in the manner just related. I treated

the first case as one of heart disease, without having daly the first case as one of neart disease, without having duly taken the cause into consideration, by cupping, blistering, digi-talis, cal. c. opio, etc.; but the heart affection returned shortly afterwards with the same intensity. Having traced the canse of the disease to rhemmatism, I adopted means for the climination of excretory matter. The remaining four cases of heart affection, from the same canse, I no louger treated locally, but constitutionally, and with good effect. The heart affection becomes permanently relieved on the development of rheumatiam, whether muscular or arthritic.

In most cases, the subjects of the above affection are of a cachectic habit of body, suffer from dyspepsia and defective

assimilation, and are generally persons of irregular habits.

I have no theory, but merely make a statement of facts A nave no theory, but merely make a statement of facts that rheumatism may primarily attack the heart or other internal organ previous to or without its making its appearance in the fibrous tissues or muscles.

In the treatment of the above cases, an excellent opportunity an use remainer of the above cases, an excellent opportunity was afforded me of testing the value of the alkaline treatment as laid down by Drs. Garrod and Fuller. It never fails to alleviate the articular or muscular pains, when pushed to the extent of rendering the urine alkaline.

Occasional cases of acute rheumatism will occur, especially in cold climates, which apparently resist all known remedies; but it would be fatal to the interests of Medical science and of but it would be faint to the interests of Medical science and of humanity to be guided on this account by the opinions of Drs. humanity to be guided on this account by the opinions of Drs. disease, and would have us trust to mint-water and cotton wadding. Their ideas would appear to coincide with those of the famous Gil Blas during his Medical career, that all that a successful Physician had to do was to stand gravely, and with folded arms, behind the patient's chair, and occasionally pat Nature on the back.

It is the duty of the Physician to guide Nature, and to cor-rect her when she is at fault, and if it be universally acknowledged that the phenomena of rheumatic fever are owing to the presence of a vicious principle in the blood, it is his duty to endeavour to eliminate it, although it must be admitted that in some cases he may not be so successful as he might have reason to expect.

The following interesting case was seen with me by two

eminent Physicians in Havana (Drs. Bustamante and Del-

valle) in the beginning of the present year:—
Mr. B., an English merchant, and long resident in this island, complained of pain and a sense of constriction over the precordial region, stiffness, and pain over back and shoulders. Had suffered on previous occasions from pains over loins, but never from rheumatism in the joints; knew that gout had existed in his father's family; had felt, some time back, a existed in his father's family; had felt, some time local, a twinge in the great toe, but it soon passed off, without an a work of the second off, and the second off, which are an interest of the second of the second of the second of second of the second of second of the second of the second of the second of second of the second of the second of second of the second of second of the second of second sec

foot-bath, mustard poultices to calves of legs, strong stimulating liminents over joints, to be repeated every two hours.

2nd Day.—Slight arthritic pains; a swelling had already innaded both writes and left knee. Foultiess of limeschemes toreduce the strong stron

more copious. Continue mixture every three honrs. Ordered an injection of warm soapsuds-water. Dover's powder at bedtime.

4th Day.—Great pain over loins, down the course of the sciatio nerve. Ordered dry cupping over loins, and next lin. aconiti e chloroform. Heart greatly relieved. Gave cal. gr. iij.

and opii gr. j. at bedtime.

5th Day.—The alkaline mixture having created great nauses, ordered in diminished doses in state of effervescence with large ordered in diminished doese in state of effervescence with large screese of pot. bienth. Pains general and severe; prepriation clammy, acid, but not excessive. Ordered a warm bath, to which a strong decection, made with half a pound of stra-monium leaves, was added. This is a favourite anodyne bath in Cuba, called a chamico bath, and a very admirable and useful one it is. Orea relief obtained; alept better. 6th Days—Continue mixture; rypest injection; repeat cal.

and opium pill at bedtime.

7th Day.—Take pot. iod. gr. v. and pot. bicarb. gr. x. ter die. 9th Day.—General improvement, but erratic pains pass from one joint to another. Ordered a small blister below left nipple, to guard against metastasis to the heart.

or guaru against metaetasis to the heart.

10th Roy.—Continne pot, iod. mixture; repeat stramonium
bath; give quin. gr. j., cicute gr. iij. at bedtime.

11th Roy.—Right knee very painful. Give the pot, bicarb.
and pot, iod. mixture.

13th Day.—General improvement; urine very abundant; great deposit of lithates. Ordered quin. gr. j. and sodie bicarb. gr. iij. ter die.

gr. 1); ter die.

15th Day.—Repeat quin. and sodie; continue pot. iod.

19th Day.—Convalescent. The alkaline treatment, with
some modifications, to be continued for a fortnight.

This has been one of the most severe cases of acute rheumatism that I have met with, and I candidly believe that, nation that I have met with, and I candidly believe that, under the old treatment, its duration would have occupied a period of sixty instead of nineteen days.

From a consideration of this case, confirmed by a few From a consideration of this case, confirmed by a few previous ones, I infer:—I. That acute rheumatism fixes itself upon the heart without having previously exhibited any affairly for the tissues of other parts. 2. That when that affinity towards the heart is diverted to external parts, the heart becomes sensibly and permanently relieved; and 3. That the alkaline treatment is the best calculated to neutralise the materies movib, to shorten the duration of the disease, and to guard against pericarditis and valvular disease of the heart.

One of those disclosures which, when they come, lead us (the Onesety Adertiese) to wonder that plague and pesti-lence are not more common and destructive, was made at the Newton Local Board last week. The sanitary condition of one locality was described as deplorable; large quantities of the most motions accumulations had recently been removed—in fact, the Douber's report was, "that there was one mass of patrid matter where the people were living, and from thirty to forty baskets of this fifth had been carried up in one day." At the same meeting, however, a motion that the Board provide for the more effectual search gening of the town was defeated by six votes to five.

⁽a) Our patients very soldom complain of the bad taste of amedicine. It has been usual to prescribe a draught containing sixty grains in a two-ounce bottle of syrup and peppermint water, by which the really disgusting taste of chloral is very fairly disguised.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

KING'S COLLEGE HOSPITAL

LIGATURE OF THE SUBCLAVIAN ARTERY FOR TRAUMATIC AXILLARY ANEURISM. (By Sir WILLIAM FERGUSSON.)

It is barely a month since we reported the operation of ligature of the subclavian artery by Sir William Fergusson, at this Hospital. At the date of the publication of that report the man was doing fairly well, but he has subsequently ded. Since then, Mr. Maunder, at the London Hospital, and Mr. Gay, at the Great Northern, have both tied this vessel; and necomplishing the proceeding with no very great difficulty, being chiefly hindered by the free venous bleeding which being chiefly hindered by the free venous bleeding with point of the season o Gay, at the Great Northern, have both tied this vessel; Mr. aneurism, the shoulder was much raised, and the artery proportionately difficult to reach. A single incision was made extending from near the sternum along the inner two-thirds of the clavicle, and then-profiting doubtless, by the lesson taught by Mr. Gay's case—Sir William at once passed a double ligature round the external jugular vein, which stretched, swollen, across the centre of the wound, and, dividing this between the threads, turned the ends aside and proceeded with the dissection with very little bleeding. A source of em-barrassment was afforded by the uncertainty as to the identity of the anterior scalenus muscle when this was reached. Sir William could not, at first, be sure that he had not to deal william could not, at rist, be sure that he had not to deal but when that port were pleasing of the role of the chains of the but when that port were pleasing of the role of the chains of the spidly accomplished, the thread passed easily from behind upwards, and, the pulsation in the timour being found to have entirely ceased, the wound was closed, and the patient returned to bed, the whole operation having occupied about twenty

minutes minutes.

Sir William then proceeded to comment upon the case. The patient, he said, was a healthy young man, who five or six weeks previously met with an accident, a pitch-fort falling against him and wounding his shoulder. One prong entered his side and grazed a rib, but did not penetrate the chest, and seemed to do so harm. The second prong, however, entered at the anterior margin of the deltoid muscle, and probably damaged the axiliary artery. Both wounds healed by first intention, but soon afterwards a pulsating aveiling was noticed in the armpit, and the man came up to the Hospital to consult Sir William, with a tumour the size of an orange situated high in William, with a tumour the size of an orange situated high in the axilla. It was clearly a case for grave consideration, and the man was suffered to lie quietly in bod for some days; but as the ancuriam was then observed to be rapidly increasing. Sir William at once made up his mind as to its treatment. Now, here was a wounded vessel, and the Sargeon is justified in such cases in cutting down and tying the artery above Surgical rules. On the case of the control of th obvious that the torn ressel could not be exposed without cutting through both pectoral muscles, and so causing a very extensive wound; besides which, the vein might itself bo injured and need interference. Now, the less the bulk of a wound the less the danger, and, looking at the magnitude of such a cyst as this, and the probability of great loss of blood in its exposure (for it is far easier to talk of compres-sion of the subclavina artery in books than to do it), Sir William decided to leave the ordinary rule and to go nearer The one objection to this procedure would be, to the heart. of course, that collateral circulation might feed the torn vessel. This objection, however, although abundantly proved in regard of the brachial artery, had never yet been established in this

locality, and Sir William thought it safe to risk this danger. As to the operation itself, it was considerably more difficult As to the operation itself, it was considerably more dimensional than had been anticipated in so young a subject, and one so free from fat. This was owing to the large size of the tumour, which had increased wonderfully since admission, and caused the shoulder to be much raised, whilst the pressure on surroundtion successes to be much raised, white two presents on surround-ing parts had engorged the veins and given rise to trouble-some venous coning. The swollen outernal jugular vein lying right in the way, it was thought better to the it and cut it across than to hold it saids for the rest of the operation. The num-hyoid also being in the way had been divided. It might seem strange that any doubt could exist as to the anterior scalenus muscle, but in the living subject things are not always so clearly recognisable as in the dead-house, and it was difficult to distinguish between the muscle and the leash of

nerves occupying nearly the same position in the wound.

Sir William then referred to the late instances of the same operation being performed in London, and explained that he bad thought it right not to delay a single day in the present case, when on his visit on the preceding afternoon he had found the swelling to be so rapidly enlarging.

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Medical Times and Gazette.

SATURDAY, APRIL 22, 1871.

THE SMALL-POX EPIDEMIC.

Duning the week that ended last Saturday, no fewer than 265 deaths from small-pox were registered, being the highest weekly number yet recorded. In the previous week the number registered was 214, and the Registrar-General thinks it probable that part of the increase belonged to that week, in which the registration was somewhat interrupted by the occurrence of Good Friday. But even allowing for this, the rise in the smallpox death-rate must have been very considerable. We were quite prepared for it by the knowledge of the serious extension of the disease during the last fortuight in the Northern and Southern suburbs of the metropolis. We are again reminded that the highest weekly number of deaths during the various epidemics which prevailed during the thirty-one years, 1840-70, was 102 in the last week of 1840. After distributing the Hospital deaths as far as is practicable, the order in which the districts stand for small-pox mortality is-the South districts, 84 deaths; the North, 76; the East, 57; the West, 30; and the Central districts, 18 deaths. The greatest increase has taken place, then, in the North, where Islington and Somers-town are the principal sufferers. In the South districts the disease was most fatally prevalent in Southwark and Battersea. The return of the Health Officers' Association appears to indicate an increase of the disease last week in the Central districts also.

This continuance, and, in some parts of London, the

great increase, of small-pox, are taxing severely the resources of the Asylum-Board. Notwithstanding that they have drafted some 300 convalescent females to Islington, it has been found necessary to devote some of the beds in the "old workhouse" there to the use of acute female cases. The Board, therefore, at a recent meeting, determined apon fitting up the Levendrought Hospital Ship for the reception of 200 convalescents. This will not take very long, but, eyen when it is done, we make bold to say that the accommodation provided will still be short of the requirements of the metropolis at the present time. In one small district of Islington, for instance, we hear that within a radius of little more than 100 yards, there have occurred during the last fortnight or three weeks no fewer than forty-one cases of small-pox in a poor population, and of these only six cases have deem-removed to the Hospital, and the result is that the disease is spreading rapidly from house to house. And this is only an example of what is happening in other parts of the metropolis. Persons who may be willing enough to go to the Hospital when first attacked, become unwilling when they discover the trouble that is involved in the attempt to obtain admission, while in other instances the delay arising from a deficiency of beds is, after a day or two, fatal to any idea of removal at all. How much better it would have been if each parish, at any rate each parish on the outskirts where land is obtainable, had erected its own temporary Hospital sheds, without relying, as most of them have done, upon the accommodation provided by the Asylum Board. Strictly, it was no part of the duty of that Board to provide accommodation for other than paupers, and had they taken this view of their duty, and refused admission to all others, no doubt the existing Hospitals would have been more than sufficient. . However, they have taken a higher standing than this, and we think properly. But that they have done so, and have admitted artisans, clerks, shopmen, and servants, without inquiring into their antecedents, rather than lay themselves open to rebuke, is no good reason why the metropolitan vestries should not have performed their part, which they were equally bound to do as administrators of the Sanitary Act, 1866. We hold, therefore, that if the Hespital accommodation is not sufficient for the occasion, the blame should not be laid upon the Asylum Board, but upon those local authorities who have thought fit to shirk an obvious duty rather than burthen the local rates.

Taking this view of the situation, we commend for study the letters to the Times written by Surgeon-Major Atchison, and recently reprinted in the form of a pamphlet. He says, thinstead of the costly, injurious, and tanky system of congregating the sick in Hospitals, asylums, or improvised lazarettes in a hitherto weinfected neighbourhood, why not apply the simple remedy we at once resort to in India-viz., pitch tents . in some high and airy situation, quarantine the encampment, and on the subsidence of the disease, disinfect, or burn the .. 15 Aarogards details," he says, " take a map of "London and its districts—and the same rule applies to every city, town, or village in England-mark out the commons, waste lands, or other nnenclosed spots nearest to the suburb attacked, erect a few tenta, wooden huts, or roomy sheds (and at first they need not be many), place them under the charge. of the district or divisional Surgeon, and thereto should be surgied every variolous case of whatsoever kind, description, or class, without favour or distinction. Let them be near a river where there is a current of pure air, taking advantage of thatched barges or covered steamers; near the sea, or our harbours, blockships, or well-ventilated vessels at anchor-common nense directing the locality and suitability to individuals -but on ino secount brick or walled enclosures and post houses." No doubt this would be an economical as well as effectual way of dealing with such an epidemic as the present; , but its adoption would not be quite so easy in London as the writer, imagines, Unenclosed land sufficiently near London is searcely to be

75.5

found, and hence a site would have, in most instances, to be purchased or rented. The obtaining sites has been one of the greatest difficulties which the Asylum Board has had to encounter. But still, they are obtainable; and every parish on the borders of London should possess a site which they could use on the occasion arising. Forethought, however, is no distinguishing, virtue of metropolitan vestries, especially when it means anticipation of further expense. One thing is certain, however-namely, that the adoption of some such scheme as that sketched out by Mr. Atchison would be true wisdom and true economy.

OUT-PATIENT HOSPITAL REFORM.

A MEETING has been called for Thursday, the 20th inst., toreceive a report from the committee appointed some time ago to consider the subject of out-patient Hospital administration, by a meeting held for that purpose in the rooms of the Royal Medical and Chirurgical Society. This report has been the work of certain sub-committees rather than of the main body itself, and deals with the subject as connected with general Hospitals, special Hospitals, general and special Dispensaries, and Poor-law Dispensaries. The following are the resolutions to be submitted to the meeting to be held at the rooms of the Royal Medical and Chirurgical Society on Thursday, April 20, at 8 p.m.:-

"1. That an improved administration of Poor-law Medical relief, in accordance with the Metropolitan Poor Act of 1867, is essential to the reform of the out-patient administration of

the metropolis.

"2. That, in furtherance of the above resolution, and in The Anal, in Intracrance of the above resolution, and in order to limit the pauperising tendency of the present system of gratuitons relief at Hospitals and Dispensaries, all free Dispensaries should be under the control of the Poor-law authorities, so that a proper system of inquiry may be instituted previous to the administration of gratuitous Medical relief.

to the administration of gratuitous Medical relief.

3. That, in order to encourage a feeling of self-respectancing.

3. That, in order to encourage a feeling of self-respectancing to the self-respectancing to the self-respectancing to the self-respectancing health the necessary Medical attendance in sickness, tits desirable that the system of provident Dispensaries should be largely extended, both by the conversion of the present free Dispensaries and by the foundation of others.

"4. That, for the reasons given in the preceding resolution, and in order to improve the clinical teaching of the out-patient department of the general and special hospitals, it is very desirable that the present unrestricted system of gratuitous relief at those institutions be curtailed, partly by the selection of cases possessing special clinical interest, and partly by the exclusion of those who on social grounds are not entitled to gratuitous Medical advice.

"5. That the practice of receiving payments for medicine or Medical advice from the out-patients of Hospitals is undestr-

"6. That the governors of Hospitals ought in all cases to provide some honorarium for the staff of the out-patient depart-

ment.

"7. That a committee be appointed to memorialise the Pre-sident of the Poor-law Board, the governors of the various metropolitan Medical charities, and the Society for Organising Charitable Relief, to assist in carrying the foregoing resolutions into effect, and to take such other steps as they may think requisite.

The discussion of these in detail had better be reserved until after the meeting, which takes place too late for us to give a full account this week; but we venture to make a few remarks on the report relating to general Hospitals, these being the institutions with which from the necessity of our avocations, we are best acquainted. And first we would show that this sub-committee do not propose that root-and-branch system advocated by some; they propose to reform, not to destroy; and yet we miss in their report some of the simplest. most practical, and most effectual of reforms. They say, and most justly, that nowadays, when apprenticeship has practically ceased, students have not the means they formerly had of thoroughly mastering the details of the sick-room, Well, the nearest approach they can attain to their future every-day duties is in the maternity charity now connected with every Hospital, and the out-patient room. As has been pointed out over and over again, it is not ghastly operations or skilful feats of minute diagnosis that make up the sum-total of a man's life-work; it is the "little trifling cases." which occur to him most frequently, and these, also, most abound in every out-patient room. The committee say that out-patient. practice should be more utilised for the nurposes of instruction. Quite so; but whose fault is it that it is not? Why, that of the men engaged in it themselves. Perhaps the most admirable sample of practical teaching to be encountered in any London school is to be seen in the out-nationt room of one of our largest Hospitals, and the growd of students show how it is appreciated. It is true, to carry out such a system efficiently some pains are necessary. It is not at all instructive for the student to see patient after patient appear and disappear with the simple question "How are you to-day?" answer, " Better ;" then go on. But if a definite hour is fixed for the attendance of students, and if they are not kept at it too long-an hour is quite enough; if, moreover, the cases are selected for attendance at that hour-and in large Hospitals two subjects may be selected for each day, and strings of patients be in attendance—the result is speedily apparent. The out-patient room of a popular teacher that is, one who strives to make the student learn-will be crowded, though others may be empty. This committee fix the maximum attendance of the Physician or Surgeon at three hours; that is quite enough. But, taking away the teaching hour, two others remain to dismiss the ordinary cases and to study those worthy of study for next hour of instruction. Thus out-patient practice may be, and is actually now, fully utilised for teaching purposes.

The sub-committee tells us that the out-patient departments of general Hospitals are abused by workmen, who ought, instead, to join sick-clubs and benefit societies. Surely the members of that sub-committee know, or ought to know, that the grossest abuses of these intended charities are committed in the name of, and frequently by, these societies. Presuming on the never-failing help extended by such Hospitals, these societies are perhaps most frequently got up without any Medical advice. Sickly members may join as well as healthy ones; when they fall ill they are told to go to the Hospital for relief. Having been attended to. they calmly pull out a blank form, often of a most complicated description, and say, " Please, sir, do you mind filling up my schedule; otherwise I shall not receive my money from my club." If you reply, "Why don't you go to your club Doctor. they tell you, " Because we've got none." Nay, more, the folly of this system is rendered still more apparent by the fact that malingerers are constantly pestering out-patient Physicians and Surgeons merely for the sake of obtaining such certificator. A drunken tailor has a three days' debauch, beginning on Saturday, ending, with his money and all available pawningmaterial, on Monday, On the Tuesday he appears at the Hospital with foul tongue, hot hands, pullid sountenance, and miserable demeanque. He is prescribed for, but that was not what he wanted; it was the means of renewing his drinking bout, or of "tapering it off," at least; and so a dirty piece of paper is produced, thrust under the Physician's nose. with a peremptory request for signatura, Sick-clubs will not be the saviours of society under their present system of management. Why, some of the largest of them have already discovered the comparative sheepness of such a mode of obtaining Medical advice for their members, and accordingly subscribe, tolerably liberally to certain Hospitals, in order that they may have an unlimited supply of out-patient letters at their disposal. So common is the practice that the other day, a labouring man having applied for a gertificate of ill health. and being refused by the sitting officer, on the ground that the patient came to be treated, not to have certificates signed, reported his ill-success to his club. He was immediately pronounced a malingerer, and two members were delegated to wait on the

gentleman in question to ask the reason of his refusal to comply. with a request so often and so successfully reiterated. The suppression of this alone would be at all events the introduction of the thin end of the wedge.

The sub-committee recommend the abolition of governors' and subscribers' letters. . They, nevertheless, constitute one of the most important means at our disposal of checking improper patients. . It is true that some give a letter to any. applicant, but many take the trouble to find out the actual condition of the patient, and abstain from giving until assured that the individual is deserving. Have the committee any experience on the subject of free admission and admission by letter? It is to be had, and conclusively shows that the lattersystem is deterrent of the worst class of eases, those, namely, where nothing is the matter. There is no Hospital in London. where anyone really ill would be turned away without help. If the patients are in such a condition as to be injured by going in search of a letter, the Physician or Surgeon has the power of permitting a continuance of the casual letter with which they have been provided ... We do not for one moment contend that ; the system is not abused-we are painfully aware that it is so daily-but then, if it is worked badly, it may also be worked so as to do good-in other words, it is not the system, but the mode of working it, which is at fault.

And what do they propose to put in the place of outpatient denartments? Provident dispensarics and poor-law dispensaries. Provident dispensaries worked as at Northampton, where it is calculated that many thousands of the inhabitants are eligible; where three Medical men make a fair income . out of the dispensary, and the others not attached to it are starved out. Without a real working committee-that is to say, one which will carefully enter into the circumstances of each applicant - such dispensaries mean exactly the samething as out-patient departments, only the money comes in in twopences. not in guineas, and the Medical man gets a share. The charity is of the same quality in both. In poor-law dispensaries, of course, the working Medical men are to be paid, but they are to bring all difficult cases to the Hospital Physician or Surgeon for consultation, of course without a fee-that is to say, the Hospital Physician or Surgeon is to do State work unpaid-a principle to which we quite object.

Far be it from us to hold that we have already reached the millenium, and that our present system is perfect; but in its place we must have something better than moonshine.

Suppose the whole scheme recommended by the sub-committee accepted by any number of general-meetings, who is to enforce its provisions ?.

THE WEEK. and property from story on

ALT IN HOSE THE POPICS OF THE DAY.

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HALL O LONG BROWN

THERE was a meeting of the Committee of the Royal College of Physicians, on the subject of the conjoint examination scheme, on Tuesday evening. No day, we believe, is yet fixed for the meeting of the delegates from the three Corporations for the discussion of the amended scheme proposed by the Committee: of the Conneil of the Royal College of Surgeons.

Clinical examinations were instituted at the College of Surgeons on Tuesday. Surgical patients for the purpose were brought to the College from King's College, St. Bartholomew's, and Guy's Hospitals. The Court of Examiners have now done . overything that modern experience suggests to make their . examinations as perfect as they can be. We have no hesitation in stating our belief that the examinations as tests for ordinary practice have been raised to a maximum of efficiency, and we hope to hear of no more efforts to depreciate them unless some real evidence of their insufficiency be forthcoming.

We have had a long correspondence sent us which has taken place between the Committee of the Manchester Medico-

the start - Surgery

Ethical Association and the editor of the British Medical Journal. We are averse to entering on other people's misunderstandings, but as our attention has been specially called to the matter by the parties concerned, we may simply say that the correspondence relates to resolutions adopted by a meeting of the Committee of the Manchester Medico-Ethical Association approving of the Lancet Medical Bill, and disapproving of the line taken by the British Medical Association and its journal in the matter of Medical Reform. The editor of the British Medical Journal refuses to publish a notice of the proceedings of the Committee in question unless the names of the mover and seconder and of those present are sent him, together with the minutes of the meeting. This is declined on the part of the Committee by the secretaries. It seems to us that, on all common principles of literary morality, the editor is perfectly right in his refusal. In the first place, we maintain that no editor deserves his position who cannot be trusted with the responsibility of using his own judgment as to what matters he shall allow to appear in the journal over which he presides. The editor is responsible; he is presumed to know what is best for the interests both of his journal and his readers. On this point the editor must be antocratic, or he is nothing. Secondly, it does not even appear that all the members of the Committee of the Manchester Association are members of the British Medical Association; therefore it is difficult to conceive on what grounds they require the latter body to publish their censures on itself. Thirdly, the Lancet Bill is so unpopular, as Mr. Forster lately assured the editor of that journal, that we think the editor of the British Medical Journal was quite justified in demanding all possible evidence that any influential body of Professional men would have the boldness to support it. Surely, before publishing the resolutions of a committee of a provincial association, the editor of a public journal has a right to ask of how many the committee consists, and how many were present at the meeting.

We are glad to say that Mr. W. H. Smith is returning to the charge in reference to the land reclaimed by the Thames Embankment. It will be the height of injustice if the population of the metropolis, who have paid for reclaiming the land, are robbed of it as a pleasure and recreation-ground, in order to swell the revenue of the Crown, which has not paid one farthing of the tax which reclaimed it.

ST. THOMAS'S HOSPITAL.

In view of the approaching completion of the new building, the governors of this Hospital have resolved upon at once increasing the Medical staff. We believe applications will be invited from gentlemen as candidates for the following appointments:—Physician, Assistant-Physician, Surgeon, and two Assistant-Surgeons. We look forward to the staff of the Hospital being strengthened by the addition of some names well known as having advanced the science and art of Medicine.

POOR-LAW MEDICAL OFFICERS' ASSOCIATION,

A GENERAL meeting of this Association will be held at the Freemasons' tavers, Great Queen-street, Lincoln's-im-fields, on Wodnesday, May 3, at 7:30 p.m. precisely; when the President, Dr. Rogers, will give an exposition of the causes which led to the enactment of the Medical Charities Act (Ireland) comment on the clauses, which particularly interest the Procession, show the results, offer some suggestions for the modification of Poor-law Medical relief in England, and for the utilisation of Poor-law Medical Officers as Deputy Health Officers in their respective districts, as recommended in the report of the Royal Sanitary Commission. Subsequently the sense of the meeting will be taken on the various questions raised in the president's address. We trust there will be a good attendance of the members of the Association and of the Profession generally.

THE MEDICAL PROPESSION DURING THE SIEGE AND THE BEBELLION OF PARIS.

THE letters of our Paris correspondent, which record the selfsacrifice and devotion of the Paris Physicians and Surgeons during the siege, give also a vivid picture of the mode in which Medical affairs are managed under the Commune. The Medical School closed, the Professors dismissed, a ridiculous attempt to set up a new Medical School by a kind of universal suffrage amongst students and grinders, threats of the punishment due to deserters levelled against Medical men who refuse to serve in the Communist army, unlicensed Practitioners acting as Surgeons-in-chief at the Hôtel de Ville, attempts to pillage the Hospital funds and to supersede the directors : such is the happy state of things. The Hospital wards are filled with wounded, and our correspondent believes that the lossesof the Communists in killed and wounded are serious, though by a system of bringing them in from the field at night the amount of loss is concealed from the Parisians.

THE CLINICAL SOCIETY.

THE last meeting of the Clinical Society was signalised by numerous papers and pancity of discussion. The first and most important was a communication by Dr. Broadbent on the Therapeutic Virtues of Phosphorus in Skin Diseases. Its value he primarily inferred from its belonging to the same chemical series as arsenic; it was put to the test and found to answer. The phosphorus was given dissolved in olive oil. The latter portion of the meeting was occupied with the reading of a paper which, in all essential detail, had already been brought before the Pathological Society by its author, Mr. Lawson. Tait. The only grounds for such procedure would be the interest attaching to the mode of treatment; but even that had been referred to previously. It is really too bad to waste valuable time in bringing before one Society what has already been presented to another. Of course, it is quite possible to have a case worth discussing from both its clinical and its pathological side, but it would be much better if that could be done at one society instead of two; at all events, we may decidedly say that, if the Clinical Society can only have secondhand papers, containing absolutely nothing new in them, it had better cease to exist. Its work has been so excellent, the average of its papers so high, that it is a pity the Society should be dealt with in such fashion.

CRIMINAL LUNATIOS.

THE managers appointed under the Prisons (Scotland) Administration Act, in their second report just issued, make the following observations with regard to criminal lunatics in that country. They state that in a considerable proportion of the instances where persons indicted for crimes are placed at her Majesty's disposal on the ground of lunacy, there is a complete recovery from the disease; but it is liable to recur. In the majority of cases it follows on excessive drinking. Kept absolutely sober, with vigilant Medical supervision, suitable diet, and regular habits, the person who has com-mitted murder is restored to reason. But if he is at large he will probably take to drinking again, with all its dangerous results. It has been put to one high Medical anthority after another, whether a person who in a fit of insanity has killed a fellow-creature is more liable to be in a condition to repeat the act than anyone who has never been under the infinence of insanity? The answer invariably was that in one class of cases only could a negative answer be given-in the case of women who had committed violence under the influence of pnerperal mania, and had lived beyond the age of childbearing. Under the existing law in Scotland all criminal lunatics who have recovered must either be detained in the general prison or be left at large. When they fall on theparish they cannot be put into an asylum or otherwise dealt

with like lunatice, because they are not Medically cortified to be insane. The managers, on the other hand, state that it is not favorable to the preservation of the mental health of these persons, that those who have recovered their reason should be placed in continual association with absolute lunatics. A Bill now in the hands of the Lord Advocate contains a clause for the conditional removal of immates of tentains a condition of liability to removal back of such persons to the lunatic department in the general prison in Coccessary.

AN EPISODE IN THE EPIDEMIC.

WHEN the Asylum Board took over the old Islington Workhouse for conversion into a convalencent Hospital, they took over with it a number of patients who were being treated there under the direction of the Islington guardians. These were removed to Hampstead, and then, as the bedding and furniture were not, in the opinion of the new occupiers, fit for the use of their Hospital, an application was made to the guardians to take them back. This was refused, and hence all the infected articles were put on one side, and stored in some disused apartments, the guardians further stating that they should hold the Board liable for everything left in the building when they took possession. On March 25-that is to say, a fortnight after the transfer - the Board resolved that the Islington guardians should be requested to inform them whether they will authorise the destruction of the articles left, as, in their opinion, it was most undesirable for the health of the district that the bedding. which must be full of infectious matter, should be thus retained. Still, the guardians remained obstinate, and now the Medical Officer of Health, Dr. Ballard, has stepped in to cut the knot, and has served a notice upon the Asylum Board to disinfect the articles within twenty-four hours. In the event of their not doing so, we hear that it is probable that the whole will be destroyed under the authority of the vestry, leaving the guardians to take any remedy they please or may be advised to take. A pretty triangular duel! It is by the exhibition of childish jealousies of this kind that local boards so commonly bring themselves into contempt.

ARMY HOSPITALS AND AMBULANCES.

WE defy anyone to read the report of the discussion of Monday night, in the House of Commons, on this subject, without forming very hazy conclusions on the matter. Whether this obscurity is the result of incorrect reporting, of imperfect knowledge on the part of the Government advisers, or their desire to obfuscate their questioners, would be hard to say. As an example, Sir Henry Storks, on behalf of the Government, in reply to questions addressed to him by Mr. Alderman Lusk, stated, among other things, that it is the intention of his right honourable friend (Mr. Cardwell) to have a Hospital corps placed entirely at the disposal of the Medical officers, for the purposes of Hospital during peace, and in time of war a corps for the assistance of the wounded after an action. From the expression, " entirely at the disposal of the Medical officers." we had inclined to the conclusion that the present relation of Medical officers to the Army Hospital Corps would undergo some considerable modification, rendering unnecessary the intervention of military officers, except, perhaps, in a position subordinate to the principal Medical officer at Netley, the head-quarters of the Army Hospital Corps, or to the principal Medical officer of an army in the field. We were about to congratulate the authorities on having at last come to a common-sense conclusion, likely to be satisfactory to Medical officers and advantageous to the public service; but on reading on a little further, we find Mr. Cardwell allege as a reason for the necessity of having a colonel as Commandant, and a lieutenant-colonel as his Assistant, at the Royal Victoria Hospital, Netley, that Netley is the head-quarters of the Army Hospital Corps.

The fact is that the functions of the Commandant and his Assistant at Netley, so far from being limited to the command of the Army Hospital Corps as their raison d'être, extend over the discipline of the whole establishment. including that of the Medical officers themselves, and, as Colonel North, speaking from the military point of view, very plainly put it, would render necessary the presence of an officer of even higher rank at Netley, instead of striving to save £200 or £300 per annum, as the allowance to the Assistant-Commandant. Sir H. Storks, also, in the distribution of the Inspectors-General of Hospitals, was rather out in his count in giving one to the head-quarters of the Army Hospital Corps and one to Netley, the two places being the same. Mr. Dalrymple's promised resolution as to the organisation of General Military Hospitals has not been put. We hope he may yet find an opportunity of giving expression to his views.

COMMUTATION OF PENSIONS.

Our naval and military brethren, retired from their respective services, who have been heaitating as to the propriety of accepting the doubtful benefit of commutation of their pensions, are about to have the question decided for them in the negative by the Chancellor of the Exchequer, who, on Tuesday night, in reply to a resolution moved by Mr. Monk, and seconded by Mr. Alderman Lusk, in favour of extending to the whole Civil Service the privilege of commuting pensions now enjoyed solely by the War Office and the Admiralty, stated that, after the year's experience of the Pension Commutation Act, he had determined to restrict the privilege to persons who receive pensions on account of the abolition of their offices. We cannot say that much will be lost by the withdrawal of the privilege, the terms of commutation having been far from liberal, as we pointed ont at the time of their publication, giving, as an example, that the expectation of life of a healthy man, aged 42, according to Finlaison's tables, is 25.74 years, and that actuaries in calculating the purchase of annuities allow 21.5 years to a man of 42, while the Commutation Act of 1870, to a man of that age, allowed only 13 years,

PEMALE STUDENTS OF PHYSIC IN MIXED CLASSES.

Dr. Mary Dodds, M.D., writes to the Scotsman on behalf of mixed Medical classes of male and female students, and uses the whimical argument that male students do not like the other sex to be present because they feel under a restraint and unable to practice "rowdyism." She argues further that this association is beneficial to the male students:—

"Indelicacy is the plea now put forth againt women studying Medicine in the same classes with men. It is no doubt true that women, thoroughly educated in Medical science, lose some of that sentimental, hypocritical mock-modesty which has been acquired by a false system of education, but true modesty is exalted. Why should it be indelicate for men and women to study together the several branches of Medical science? The truths taught about the had commonstrated that the presence of the one sex has an influence over the other for good.

"Again, why are men so much concerned about the morths of women? Has not nature endowed women, as well as men, with minds of their own, to think and judge for themselves what they are best fitted for? Then why not let them acrosis that faculty of discrimination? Is it really because those young disciples of Eculapius have such carlled respect for women that they thus prate about indelicacy? Or is it that they cannot act in their accustomed rude manner when women are present? I do not believe it is the former; there may be some truth in the latter. But I incline to the belief that there is something behind all this. Touching the purse is oftentimes worse than touching the conscience."

We may use Mary Dodds's own argument, and ask whether men are not provided with minds of their own? whether they are not able to judge of the propriety of mixing young men and women in classes for anatomical demonstrations? DB. J. R. CORMACK AND THE SECOND STRUE OF TABLE.

DB. J. R. CORMACK, who withstood all the miscries and hard
military Medical dutles of the slege of Paris by the Prusslans,
now finds that the second siege by the Versailles Government
brings even yet more hardships and peril. In a letter, dated
the 8th inst.published in the Sections of April 13, he says—

"I meed to think it strange and terrible to get into a battle five or six miles from Paris; but to have had a battle of days' duration with wounds as terrible as any I have ever seen, and the minestles coming often within less than a mile of my house, is bewilderingtly and when one has a spare moment for thought,

which at present is not often.

"Personally I am all right-only worried and downcast at this ruffinally revolt in Paris.

In my slight business relations, however, with the Commune, I revoes a control of the Commune, Armée and elsewhere among the insurgent sees the Commune of the Commu

from prudential reasons have resumed during the second. It procedums my utility and neutrality."

The following is a vivid picture of what occurs in the bombardment. Dr. Cormack was suddenly sent for to accompany one

of the American ambutaness rolapits:

"A right and burst into the bulesperie and patieserie of M. Chainphol. Ad Durain the the bulesperie and patieserie of M. Chainphol. Ad Arenue de la Grande Armée—a shop at the corner of the American and close to the Protestant Church of M. Bernies Accacins, and close to the Protestant Church of M. Bernies Accacins, and close to the Protestant Church of M. Bernies Accacins, and close to the Protestant Church of M. Bernies Accacins, and close to the protestant of the protestan

QUY'S HOSPITAL.

The Governors of Guy's Hospital, on April 19, elected E. Cock, Esq., Consulting Surgeon; T. Bryant, Esq., Surgeon; J. R. C. Davies Collay, Esq., Assistant-Surgeon.

DR. MOUNT'S TROTURE AT THE ROYAL UNITED SERVICE INSTITUTION,
WHITE MALL TARD.

A LEGUME will be delivered at three o'clock on Friday, April 21, by Butyeon-Major F. J. Monak, M.D., E.R.C.S., H.M.'s Bengal Army, "entitled, "A Visit to some of the Battle-fields and Ambulances of the North of France."

FIGURABBOAD.—BARDO ALFRID- ON SCHENTIFIC RELATIONS WITH FRANCE—PROVISED RELLEGATE SETTINGS FROM THE RELATOF WAS.

The address delivered by Baron Liebig at the meeting held on March 23 to selectate the 112th anniversary of the foundation of the Barains Royal Anadomy of Schences, contains the following passage with respect to the future relations between Prench and German men of science:—

"The Academy will perhaps seize the present occasion to deterate openly, that, there exists no national hatred on the part of the Germanie peoples sgainst the Roman races." We regard the great evils which the Freich people formerly inflieted upon Germanny saw dissens, the worlderings caused by which are long otten as seen as the remody has been applied. The peculiar

disposition of the German, his linguistic acquirements, his knowledge of foreign nationalities, and the past and present state of his evililation, lead him to be just towards other peoples, frequently even at the risk of being unjust towards himself; and thus it is that we recognise what we owe to the great philosophers, mathematicians, and naturalists of France, who have been in so many matters our masters and our models.

"It is now forty-sight years since I repaired to Patis in
"It is now forty-sight years since I repaired to Patis in
"It is now forty-sight years since I repaired to Patis in
"It is now forty-sight years since I repaired to Patis in
"Alexander von Hamboldt's attertiodental circumstance drew
Alexander von Hamboldt's attertiodental circumstance drew
Alexander von Hamboldt's attertion of the greatest chemists and physicists of his age, to propose
to me, a young man of 20 years of age, to continue and complete, with his co-operation, an analysis which I had commenced. He introduced me as his papil and his assistant into
menced. He introduced me as his papil and his assistant in the
can I forget the henviolent with a function of the comcan I forget the henviolent via the function of the comcan I forget the henviolent via the support of the contribution of the forget he henviolent via the many of our countrymen, whether Medical men, physicists, or orientalists, could
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of the efficacious support that was accorded to them by the
Prench sensors in . thes accomplialment of their scientific
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support to the fine of the fine of the finest features of the French character; and these
qualities will ere-long manifest new life and activity on the
suitable fraternoof of seience—a ground. upon. which he beat
suitable fraternoof of the first high french French national feeling,
so deeply wounded by the which. French national feeling,
so deeply wounded by the which.

Professor Billroth's fifteenth letter is entirely occupied with the subject of secondary hemorrhage as observed in gunshot wounds. He observes that, as to the mode of its occurrence, this arises more frequently from the reopening of a wound temporarily closed in a vessel than from a new aperture produced in the vessel during the suppurative process. A ball, striking an artery, carries away more or less of its substance, but the jagged tissues within the track of the wound become (as in cerasement) so blended together that the escape of blood is prevented. That injuries of the arteries and veins do not at once give rise to extensive coagulation of blood is shown in two of the cases formerly mentioned. If the crushed tissues of the wound-track, which close the aperture in the vessel and become fixed in their position through the fibrinous coagulation, do not mortify or get loosened by suppuration, the aperture may remain closed and healed, and the only question then will be whether the cicatrix is sufficiently firm to prevent a subsequent formation of aneurism after the vessel has again become more or less permeable at the injured spot. A rapid primary healing of this kind is, indeed, of very rare occurrence, at least in deep-seated parts; but undoubtedly it may occur, for, owing to the enormous richness of the muscular tissues in capillary vessels, there may be little, or even no, gangrenous action in the track of the wound. If, during the period in which the aperture in the vessel is only closed by the fibrinous agglutination of the tissues, any forcible separation of the wound, through movements or other mechanical force, takes place, bleeding is produced. So it is, also, when the fibrinous coagulation becomes purulent, or the matted-together tissues are separated in a gangrenous state. Bleeding may then indeed be prevented if the vessel, by means of its circular fibres, has become and remained for some time contracted into a solid cord, which, with small arteries, may easily be the case. Or the bore of the vessel at the injured spot may have become firmly closed by a solid coagulum, which may pass into the condition of a thrombus, completely obstructing the cavity of the vessel. Whether such a thrombus will permanently succeed in preventing bleeding must depend upon its solidity, the amount of suppuration around the vessel, and the vital energy of the . implicated tissues. Thrombus, in the great majority of cases, . is only a provisional formation, which sooner or later disappears .. through molecular diminution, or through absorption by the vessels which form within it and rapidly enlarge. If it retain

its firmness and its cohesion to the inner wall of the vessel until the wound in front of the aperture of the artery has healed, no hemorrhage will occur.

The second cause of secondary harmorrhage is the production of an aperture in the wight of the vessel during the course of the supparative, process. This may occur in different modes. In the wall of the vessel, ordinade by the projectile, undergoes partial -mortification's without being from through. On the apparation of the scharf, flowwirer, in a preferring 1s produced. 2. A splinter of 500 or the sharp edge of the projectile may be in close contact with the vessel, so that the pulsations of the latter give rise to a permanent friction, which ends in the latter give rise to a permanent friction, which ends in the production of uluceration. 3. The suppurative process, without any known reason, takes on an alcerative character, and this wall of the vessel, softened by infaminatory infiltration, gives way. In all these cases been or happen may be prevented, or, at the dark of the transfer of the production of the vessel.

Thus, hemorrhage and large or small traumatic ancurisms may easily result from gunshot wounds. Billroth has not been able to undertake, on the present occasion, the laborious investigation requisite for the further pathological elucidation of these cases; but, from the labours of such able pathologists as Hoffmann, Klebs, Arnold, Recklinghausen, and Cohnheim, who have been hard at work in different localities, he expects important results. In the meantime he proceeds to consider what, in the present state of our knowledge, are the most certain and durable means of arresting these hemorrhages. In speaking of styptics, he points out how rarely in hemorrhages, which are so often accompanied by fractures, the agent can be directly applied to the aperture, and that if coagulation could be secured by its means, how doubtful its durability would be. Local compression cannot be long continued without endangering the vitality of the part to which it is applied. Digital compression of an arterial trunk is certainly a useful measure where it can be employed. Applied to the subclavian or carotid, the patient cannot bear it for long; but it is more supportable on the femoral and brachial. In the cases in which Billroth tried it, although aided by the co-operation of skilful assistants, he did not obtain any durable results, the bleeding recurring twenty-four or forty-eight hours after the cessation of the compression. Whether its influence might have proved more durable had it been recurred to again and again, day and night, cannot be determined; and, indeed, military practice is ill-suited for testing this point, seeing the difficulty of obtaining the necessary number of hands, which, even in civil Hospitals, are not always to be had in sufficient abundance. .The remarkable success which has attended the employment of this means with which Vansetti has enriched our methods of treating 'aneurism, proves, undoubtedly, that under certain, though certainly not clearly defined conditions, digital compression, continued for hours and days, may lead to the formation of an efficient solid thrombus. Whether such a thrombus would remain firm in all cases, or would remain so in contact with a suppurating wound, is a question not to be decided a priori, but by experience.

Among operative procedures, Billroth observes the seeking for and tying the bleeding vessel is the most anatomically corract; but while referring to some cases in which he performed the operation, he draws a graphic picture of the difficulty and often the impossibility of executing it in a granulating women, owing to the friability-of the vessels and their difficulty of 'scoess. In most of such cases, after much loss of blood has been incurred in the attempt, the main ratery after all has to be tied. Beck, Stromeyer, and others advise a bolder resort to such ligature, and congratulate themselves on the results which they have obtained. The opinions of men of such experience, joined to the ill-success has met with: in other modes of treatment, have indiced Billroth to resort to ligature of the principal trunks of the vessels at a carlier period. He is, however, not altogether

satisfied with the results. The want of skill on the part of Surgeons and the fear of the occurrence of gangrene were at one time regarded as obstacles to the performance of the operation. One of these no longer exists, while the fear of gangrene was greatly exaggerated. Many Surgeons, however, still object to tying the large vessels in their continuity, on the ground that the hemorrhage is not thereby definitely arrested, and that new bleeding takes place at the seat of ligature. The first of these objections is contradicted by the experience of the cases here recorded, as the bleeding in all these was definitely arrested until death or recovery. The second point calls for more attention-viz., the subsequent bemorrhage at the point of lighture, or, as it is more commonly termed, the premature coming away of the ligature. 'Although, as a general rule, this is longer in coming away in proportion as the vessel is larger, so that time would seem always to be allowed for the acquisition of sufficient firmness and adhesion by the thrombus, yet it too often happens that the pressure causes complete or partial mortification of the walls of the vessels, which is followed by bleeding. In other cases, although the ligature has come away late, there has been insufficient solidity of the thrombus, and hemorrhage has occurred. Still more remarkable are the case a in which dissection has shown that one or several days after the ligature even of large arteries no thrombus at all, or only a very imperfect one, has been discovered. In considering the proportion of cases in which such hemorrhage occurs, Billrotia finds that in his twenty-three cases of ligature there were seven in which it took place; and, comparing these with seven recoveries, the proportion is very large. The other twelve cases are excluded, as they died either in consequence of hemorrhage or pyemia, with the ligature still adhering. Such a result shows how important is further investigation into the anatomical conditions which prevail after ligature, for the purpose of clearing up some of the doubtful points which remain, and the improvement of our means of treatment. Reference is made to the copious literature upon this subject, exhibiting the great difference of opinion that has prevailed as to the agency of thrombus in the arrest of bleeding. As the results of his own investigations, Billroth regards the thrombus as becoming gradually, in place of the congulated blood, a solid, vascular, connective substance, rich in cells; but, even thus organised, he considers it decidedly only as a provisional formation, which afterwards disappears, leaving the artery pervious, this terminating in a conical point passing into the cicatricial tissue. The excellent statistical papers which have been published in the Archiv für Klin. Chir. supply an enormous mass of materials for estimating the frequency with which hemorrhage occurs after ligature of the large arteries.

(To be continued.) .

UNIFALTITY BUILDINGS.—The Holborn and Whitechapel Boards of Works have resolved to take proceedings under the Artisans' and Labourers' Dwellings Act. At their meetings, last week, the Medical Officers reported that some houses in Union-ourt, Saffron-hill, and Black Horse-court, Spitallicids, were unfit for human habitation, and the surveyors said nothing short of demolition would meet the cvits complainted of. The Boards have salled upon the owners to show cause why the houses should not be pulled down.

*HLEYBY DISTRICT BOARD OF WORKS.—Dr. Tripe. Medical Officer of Health, reported to the meeting of the Board on Friday evenings, that forty-nine gases of small-pox had occurred in meeting that forty-nine gases of small-pox had precise and there is any fortnight since the outbreak of the precise small-pox may fortnight since the outbreak of the precise small-pox may fortnight since the outbreak of the first since the first since

THE AUTUMN TOUR OF A DRESSER, 1870.

As we might naturally have expected, our journey to Metz, at that troubled time, was neither direct nor speedy-in fact, our train came to a full stop on arriving at Mannheim about midnight, and, owing to the lateness of the hour, we had considerable difficulty in procuring lodging for the night. Our party, which now amounted to about thirty, had to put up with shake-downs, composed of our blankets and knapsacks, on the bare boards of the floor of the salle a manger of a very third-rate hotel. Owing probably to the want of bedding, we were not much troubled with any of the vermin which are generally supposed to frequent Continental bedrooms, but we experienced great annoyance from various odonrs, whereat, as the "divine Williams" has it, "our noses did feel great indignation." However, our sojonra at this delightful place was not destined to be of long duration, as the Herr von Sangen. the Chief of the Sanitats Corps, under whose directions we for the present were, gave the signal for departure at 3.30 a.m. We had on leaving Mannheim to cross the Rhine by a bridge to Ludwigshafen, where we took our train to Saarbrücken.

In anticipation of the much-dreaded French invasion, this bridge, like others on the Rhine, had been mined, a fact of which I was disagreeably reminded by a stalwart Prussian sentry, who, without the slightest attempt at an explanation, violently twitched my eigar from my mouth, and stamped every vestige of light out of it. Recollecting that we were under a species of military despotism, I thought it prudent to take no further notice of this violation of my privileges as a British subject than could be conveyed in some good sound English adjectives, which did not seem to have much effect on the offending private.

This slight episode concluded, we reached our train without further adventure, and, after safely stowing away our ambu-lance-waggons and sick-litters, we proceeded without further adventure on our way to Saarbrücken. We had plenty of We had plenty of Assessment on our way to Santoruceen. We had plenty of opportunities at small country stations of teeting the merits of \$22d-\$\text{the national sansage}\$—with which it is currently reported each soldler is invested as with a girdle at the communement of a comparign. I must confess that, as we had concernly to eat it raw, I never could taste it without direful misgivings as to its trichinous nature. After my experience of warst, I cannot wonder at the accounts I have heard of the extent of the existence of trichine in the German nation.

After a prolonged delay at Neuenkirchen-a species of German Clapham Junction-we reached Saarbrücken, having to content ourselves with a horse-box as our carriage, seatless, and even strawless, late in the evening, where we had to stay and even strawes, take in the evening, where we had to say for the night. Outside the station, exposed to the rain and sold, and without a covering to shelter them from either, were 1600 French prisoners, mostly Alastian Mobile Guards and Turcos, minglod together, who looked much dejected, and who, the latter especially, were not of the sort one would like to meet in a lonely country lane at midnight.

As we had been obliged to come to Saarbrücken—i.e., in a

horse-truck-we could not be expected to be over-nice in the matter of lodging, and consequently we were sufficiently thankful to be housed for the night in one of the sheds attached to a temporary Hospital situate in the outskirts of the town-

Saarbrücken.

It may not be uninteresting to say that it is a moderately large town, of about 15,000 inhabitants, surrounded on all sides by hills, with a river dividing the old town of Saar-brücken from the new town of St. Johann.

On the following morning, about 4.30, we left this place for Forbach, and on our way through the town saw unmistakable signs of the French bombardment, from the adjacent hills, signs of the French bomoardment, from the adjacent hills, which at the commencement of the campaign signalised the Prince Imperial's "baptism of fire." The station and several other buildings of the new part of the town bore very visible widenes of the accuracy of the French artillery on this occa-sion—an accuracy which certainly did not characterise their subsequent proceedings.

We then proceeded to Forbach, having ensconced ourselves, as comfortably as was possible, in an open truck containing an ammunition-waggon, in charge of two sentries. By very slow degrees—that is, by going ahead for a mile or two and then

stopping one or two hours-we at last reached Forbach, a town not quite so large as Saarbrücken, on Wednesday, August 24. We were here detained a few hours, and as trains came up in quick succession from the front, laden with wounded, we had numerous occasions of dressing and rendering other services, such as controlling hæmorrhage, rearranging bandages, etc., which were very gratefully received by the subjects of them. During this delay at Forbach, I noticed that at this place, as, indeed, at all the others between Forbach and Metz, the ground was strewed for yards with "charpie"—a peculiar kind of lint used exclusively by the Germans during the war. We conuses recursively of me Germans name the war. We considered it very incompetent for its purposes, seek selected it very incompetent for its purposes, seek both to patient and operator in every case, from its small detached shreds adhering obstituately to the exposed surfaces, and requiring the sid of forceps for its removal. The only warm refreshment procurable here and elsewhere was bouildin and "coffee ment procurable here and elsewhere was bouildin and "coffee." soup," for such the latter was in truth; the former is a soup composed of Liebig's extract and boiling water, which proved invaluable to all engaged, combatants or non-combatants, in the campaign.

We were again stopped on our way to Metz, at a small station five or six miles from Forbach, called Bayning-Merlbach, where we had to stay all night in trucks, exposed to a drenching rain, no straw, and with very slight covering; very fortunately, we managed to procure a sheet of tarpaulin from a neighbouring truck, which, on being placed ever the roof of onrs, sheltered us in some slight degree. In this delightful situation we remained seven or eight hours, nothing to eat or drink, with the exception of some exceedingly sour wine.

On Thursday morning, we proceeded as far as St. Avold, tho scene of the late encounter, where we ascertained that the French peasantry, on the previous night, had been pulling up the rails and firing on trains, and had completely blocked up the line by upsetting a huge truck lengthwise across the rails. We being in an ammunition train, were compelled to go back again to Forbach, of which place I was getting heartily sick. Arriving here about 4 p.m., we managed to get a tolerably good meal and a bed in the town—which was full of German soldiers—which in some degree compensated us for our previous privations. Next morning, I am thankful to say, we turned our backs on Forbach, not to visit it again for a considerable period. We proceede not destined to reach. We proceeded-bound for Courcelles, a place we were

About twenty miles further on, we reached Falquemont, where we had to stop for the night, sleeping on this occasion in our second-class carriage very comfortably, the rails having been torn up, and being in process of repair next morning. We had to stay here several hours. Our breakfast consisted of schearz-brot and schnapps, both of the vilest quality; and, after discussing it, we occupied onrselves—as at Forbach—in attending to the filthiest of wonnds, which previously had only been dressed hurriedly on the battle-field. On leaving, our orders were to proceed to Remilly, where we arrived late in the even-ing, and where we learnt that we should have to go on the following Monday morning, in company and under the pro-tection of one of the Procisms Kolumpen of the 9th Armée Corps. which was starting for the lines of investment round Metz.

We occupied ourselves on Sunday, at Remilly, by visiting the various extempore Hospitals. The first we went over had been improvised in the national schools of the town, and was devoted entirely to the most severe cases of acute dysentery, of which there were about 100 in two rooms. The place was extremely ill-ventilated, and under the charge of but one Assistant-Surgeon, who hailed our advent as a god-send. His treatment— opium, in moderate doses—of these patients had proved ineffective; the average of mortality was three per diem. As he eagerly solicited any suggestions, we recommended the remedy most in vogue during the American civil war, of which the following is the prescription:—" B. Bismuthi alb., gr. x.; pulv. kino co., gr. x.; pulv. acacire, gr. x. Ft. pulv., M. Sig.—The powder to be taken three or four times a day without moisture."
This powder was introduced amongst us by Dr. Charles Mayo. We had not much time to learn the result of our suggestion on this occasion, as we had to visit the other Hospitals in the town.

The next was in the house of one of the principal residents, who, on the outbreak of hostilities, had abruptly left the place. It was devoted to the most seriously wounded cases which we had as yet seen, and was under the charge of a Staff-Surgeon-Major (i.e. an Ober-stabs-arzt) and two Assistant-Surgeons; we accompanied them on their morning round, and witnessed their mode of dressing, with which we were not by any means pleased. The poor wretches who had been severely wounded a few days previously at the front, on their arrival here, especially

those who had experienced compound comminuted fracture of the limbs, had the injured parts cased entirely in placter-of-Paris bandages. The placter was applied in layers over cotton placed next the skin. The outliet over the wound was exceedingly small compared with the size of the wounds, and those bandages next were changed, hence the pas, being nnable to escape in sufficient quantity, burrowed in the neighbouring structures, necessitating, in order to save the patient from pysemia, free incisions along the whole course of the limb; and in many cases this proceeding was fruitless, for the unfortunate victims invariably died of pyremia. I saw enough of the use of this bandage in compound fractures to make me view it with the utmost condemnation. This room was extremely ill-ventilated, owing, I conceive, to the prevailing objection among Germans to fresh air in their houses, the atmosphere being so bad that, to use a common expression, it could almost be cut with a knife. Visiting another room, matters were even worse; in fact, I fancied for a few moments that I had entered a ward devoted Tailed for a few moments that 1 may energy a man wave-to gangrase of the lung. In it was a patient who had received a severe gunshot wound, the ball penetrating the anterior wall of the thorax of the right side between the third and fourth ribs, and lodging at the bottom of the pleural sac. This unfortunate man was treated thus: the officiating Surgeon, after pouring about a pint of a solution of Condy's fluid and warm water into the orifice, proceeded with the aid of an assistant to hold the patient over the side of the bed while he coughed out of the orifice the mingled fluid and pus from his pleural sac!

In another room was an interesting case, where both plates In another from was an interesting case, where noon pause of the vertex of the skull—about the size of a half-crown of the vertex of the control of the control of the control of the control the control of the control the control the control the control the control the control control cerebit. This case was treated with simple water-dressing of charpie. No carbolic acid was used at this Hospital. We saw several other cases which need no special mention, with the exception, perhaps, of one where the ball had penetrated both walls of the thorax, entering the subclavian and making its exit through the lower border of the scapula. This patient, at the time I saw him, was dying of

pleuro-pneumonia.

station.

pleuto-pneumonna.
Leaving this place, we proceeded to another private house, which, under the direction of Professor Benecke, had been fitted up as a temporary Hospital. The Trofessor, who spoke English like a native, took us round his cases, giving us a short and lued dissipate of each. Of the arrangements here I connot speak too highly, the rooms being well ventilated, and the cleanlines as well as the health of overry nations here well. not speak too highly, the rooms being went venturated, and sur-cleanliness as well as the health of overy patients being well regarded. Here, as shewhere, valuable assistance was rendered by numerous Sisters of Mercy. Professor Benecke had col-lected in one room between twenty and thirty of the most interesting cases of guasabot injuries to the head and neck, one of which disserves mention. The bell had entered the face behind the amount of the lowest size and had peaced thereup of when deserves mention. The ball had entered the face behind the angle of the lower jaw, and had passed through the antrum and floor of the orbit, carrying away the corre-sponding eyeball. As the injury had been but recently in-flicted and the parts were contused, no diagnosis could be formed

flicted and the parts were contused, no diagnosis could be interested of its extent, nor any favourable prognosis.

Much pleased with our visit and our courteous guide, of whom we entertain the most respectful memory (Professor Benecke is a civil Surgeon, and was doing voluntary service), we took our leave, and employed ourselves for the rest of the day attending to the wounded passing through the railway

Monday morning, at 3.30, we were up and at the appointed rendezvous, and our departure did not take place before past five o'clock. While waiting for the waggons, on which we were not allowed to travel, we were drenched through by a heavy shower; we ascertained that we should reach, after two days march, St. Marie-aux-Chènes, which was the head-quarters of Prince Louis.

We reached Corny, a town on the Moselle-some six miles we reached Corny, a town on the Moscile—some aix miles south of Mext—that evening, and were fortunate enough in getting some properly cooked meat and some tolerably good wine, which possessed the true flavour and bouquet of Moscile wine. This might we had to bivouse with the column on anything but dry ground. However, we managed to build up a good after with vine sitchs, which we were completed to steal a good after with vine yard, and so comforted ourselves for a good night's set vineyard, and so comforted ourselves for a good night's rest.

PROFESSOR HAIDINGER, one of the most eminent of our European mineralogists, has recently died at Vienna.

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the undermentioned Districts.

	_	No. of Cases week ending									
Districts.	Mar. 11.	Mar. 18.	Mar. 25.	April 1.	April 8.	April 15.	April 15. Sent to Hospital				
West-			-				1				
Chelsea	6	6	5	6			l —				
St. George, Hanover-											
square	7	19	10	11	12	16	15				
St. Margaret and St. John,											
Westminster	27	9	8	9	P		_				
St. James, Westminster .	3	8	4	4	8	8	6				
N овти—											
St. Pancras	69	63	65	44	122	107					
Islington	23	34	49	26	45	58	• 27				
Hackney	41	31	24*	29	31		-				
				10	1 _	1	1 .				
City of London	17	13	13	13	7	16	8				
St. Giles-in-the-Fields .	10	2	5	8	1 8		7 7				
Holborn	3	3	2	3	20	20	16				
EAST—	27	18	12	25	20	20	10				
Whitechapel	32	15	33	15	19	14	9				
Poplar	7	2	33	ii	10	1.4	1				
SOUTH-		١.		**	١.	-	_				
St. Mary, Newington .	19	9	28	23	27	34	22				
St. Olave, Southwark	9	1	11	5	3	3	1				
St. George-the-Martyr,		1			"		1 .				
Southwark	17	5	9	9	19	30	9				
Lambeth	28	33	33	17	32	24	37				
Clapham	17	29	22	13	40	28	16				
Battersea	13	9	P	P	?	-	I -				
Wandsworth	P	3	5	10	13	6	3				
Putney	1	. ?	. 9		8	1	1				
Streatham	9	2	3	3	4	7	1				
Camberwell	14	13	4	4	. 8		-				
Greenwich		1 8	-	-	1-	-	-				
Lewisham	16	2	P	2	4	-	-				
Plumstead	1	. 4	6	4	19	5	1 -				

* Return imperfect.

FOREIGN CORRESPONDENCE.

FRANCE.

THE MEDICAL PROFESSION DURING THE PRUSSIAN SIEGE.

Paris, April 8.

Arzus, caseful Inquiry and investigation as Pants, April 8.

by the Profession and the incidigent persons rote part taken by the Profession and the incidigent persons rote and the interest of the profession and the results of the profession and the incident their conduct in caring for the sick and wounded has been most admirable. All the large public buildings, the Luxembourg, the Tulleries, the Grand Bötch, the Bidsel du Louvre, La Bello Tulleries, the Grand Bötch, the Bidsel du Louvre, La Bello and the profession and the support of the profession and the support of th the l'unieries, the Grand Hotel, the Hotel du Louver, La Belle Jardinière, etc., were placed at the disposal of the Jardinière, etc., etc., per placed at the disposal of the city, who remained took wounded into their own dwellings, where, though food was worth its weight in gold, everything that money could purchase was provided for them. As regards the Medical and Surgical staff, their devotion and self-denial during the siege are worthy of the highest prise. On the days on which battles were fought, or the nights following.

the whole personnel of the Hospitals was at work, performing the necessary operations and dressings. It was from exposure of this kind that we lost Dr. Cocteau, one of our young and distinguished Hospital Surgeons, who contracted pneumonia in passing an intensely cold night, after the battle of Champigny, passing an interact your night, after the outlier. Comminging, at the St. Antoine Hospital, which establishment received no less than 1200 wounded on that night. All the Hospital Surgeons, without exception, had, in addition to their ordinary duties, three or four ambulances to attend to; it was also upon them that devolved the services of the military Hospitals, such

as the Val-de-Grace, the Gros Caillon, etc., of which the Surgeons were absent since the commencement of the war. The Professors of the Faculty held their consultations daily. each in a certain district of the city, with the younger Surgeons left in charge of the wards, thus controlling and deciding all grave cases in the ambulances of their quarter. Even the veterana, for many years retired from the Hospitals—MM. veterans, for many years retired from the Hospitals—MM. Ricord, Blache, Briguet, Guérard, and others—wished to pay their tribute in those sad circumstances, and give proof of their zeal by placing themselves at the disposal of the ambulances. real by placing themselves at the disposal or the amoutances. Dr. Ricord, president of the Ambulance de la Presse, though 70 years old, was present at every engagement, picking up and dressing wounded under besty fire. As to the Physicians of the arrondissement, they, too, did their duty; while the older ones attended the ambulances at the different Mairies, the younger took service in field battalions, where a goodly number met death-among others, Dr. Cogrelette, who was killed at the battle of Buzenval while attending a wounded soldier.

the catter of Suzenva while attending a wounded solitier.

In the presence of such nutring devotion of every descripman and the such as "animary intendance," who, from the beginning to the end of the war, in Paris and everywhere else, have displayed a revolting carelessness and incapacity; thus, it has occurred many and many a time, that the Intendance sent wounded to ambulances remote from large Hospitals, without having made the least preparations for their reception, and sometimes even without having taken the trouble to inspect the localities winout having taken the trouble to happer the localities of the boforchand. Cartinately, however, and at the request of the providing and managing the greater number of the ambulances, thus supplying the defects of the Intendance. And I find that the good population of Paris, and especially the Medical corps—and in this the whole press is unanimous—

the Medical corps—and in this the whole press is unanimous— proved itself equal to the circumstances by their patriotism and devotion to the sick and wounded during the whole dura-tion of the siege; and if sometimes the Hospital administration failed, it is upon the Intendance, and it alone, that the blame should fall.

(From our own Correspondent.) How Medicine Flourishes under the Commune.

Paris, April 19. In the present state of affairs, it would be rather a difficult task to give you any Surgical or Medical news from Paris, the taxk to give you any Surgical or Medical news from Faris, the disorder being such that really there is little going on to interest the English reader. But I may say something of the doings of the Commune and the manner in which that body manages, or rather expects to manage, Medical schools, Hospitals, ambulances, and the like; for you must know that the Reds not only propose revolutionising state and politics, but everythe outproposition of the control of Mairies on Saturday, April 22, and elect two delegates from every district; for the Medical students to gather at the School of Medicine on the same day, and elect ten delegates; and for the so-called Professors libras to consult with their colleagues, the 80-called Projesseurs norse to consul with large concengues, Drs. Dupré and Rambaud, two disappointed private teachers of anatomy, and elect three delegates. These chosen representa-tives, of which the number (if full) will be thirty-three, are then tives, or which the number (if tall) will be tharty-three, are then to meet the following day and draw up a plan of reorganisation mitted to those members of the Commune now representing the former Ministre de I l'antentien Publique, and, finally, to be discussed and voted upon in a public meeting by the whole Commune. Your readers will laugh at this docree, as we do over here; and if in all the districts of Paris the gathering of Physicians on Saturday next will be as fully attended as I have good reason to believe the one I am living in is sure to be, great difficulty will arise from the outset in finding the two called-for delegates.

Not a day passes by but what, among the thousand-and-one decrees which the Commune is so liberal with, we, the Medical Profession, do not come in for our share too. Of course, no honest man takes notice of them. Field Surgeons are in great demand, and the Dictators of the Hötel de Ville tell us that when every citizen in the battalion is present, ready and anxious to fight the Monarchists, the Surgeon and Assistant-Surgeon

are invariably absent, and therefore a gentle warning has been issued to the Medical staff, who, some months ago, in an honest war, were attached to battalions which are now figthing for war, were structed to battailous which are now ingining for plunder, that, in case of a like recurrence, they are to be con-sidered deserters, and shall be punished as such. A confrier, who, at the defeat of Amières, the day before yesterday, assisted some of these wounded ruffians, received abuse in return (of some of these wounded ruffiana, received abuse in return (or course, after, the work was done), and was even called an Prussien, a name which, by-the-byc, is now considered the greatest insult that could be offered a Prenchman. Seeing that the resegnatisation of the Medical service of the National Guarda is entirely deficient, the Commune of Paris decrees:—

"1. To form a battalion of Medical officers for the field, com sed of 120 Doctors and Health Officers, and 400 Medical students.

"2. This battalion shall number six companies, each company to have under its orders one apothecary-waggen, six ambulance waggons, and 120 infirmers, carrying thirty stretchers.
"3. A Medical station shall be created in every arrondissement

of Paris, provided with two Doctors. This station is charged with delivering certificates of exemption, and with verifying the more serious cases of illness at home.

4. All Physicians and students, from 19 to 40 years of age, are thus incorporated into the field battalion.

"5. Medical officers above that are shall alone be admitted

to serve at the district stations.

"6. Doctors are to receive pay of captains in the field—7 frs. 50c.; Health Officers that of lieutenants—5 frs. 50c.; 7 frs. 50c.; Health Universal and students, 5 francs a day.

"Drs. Pariser and Rasrout, the Committee of the

" Members of the Commune."

It is useless to add that the names of these honourable colleagues, as well as those of Drs. Herzfeld and Courtillier—one Surgeon-in-Chief at the Hotel de Ville, the other Principal Surgeon of the Federal Army—will be strangers to the English reader, as well as they are unknown to any of us. But I can inform them that Dr. Herzfeld is a graduate of the Jena College, and, therefore, not allowed to practise in France, and that Dr. Courtillier is a distiller of perfumes, and, consequently, not much better read in Medicine.

Stealing and robbing being a l'ordre du jour, the Hospitale, of course, had to come in for their share. Fortunately, these establishments never contain great sums, and as soon as the proceedings of the Commune became known to the executives of the Assistance Publique, they managed to make their way to Versailles, cashbox and all, containing over 1,000,000 francs. Thus far the Directors of Hospitals have remained unchanged; but, judging from a recent circular sent them by the Commune, one would think a pretext is being looked for (if, indeed, they need one) to have them removed. After the fight at Clamart Meudon and Châtillon, ten days ago, wounded men arriving at the Hospitals seemed to have been obliged to wait for some little time in the corridors or the courtyards before being carried to the wards and placed in beds-a delay quite natural from the great number of wounded which these establishments were obliged to take care of all of a sudden and And such a delay is the more excusable if we without notice. take into consideration that the ambulance waggons of the take into consideration that the ambulance waggons of the Commune make it a point to transport the wounded at night, so as not to frighten the National Guards or let the Parisians know that they have any wounded at all. But to the control of the control of the control of the control avail. The very night that the Vernsilles troops attacked the strain. The very night that the Vernsilles troops attacked aloo forts on the south side of Paris, the Henpital Beaujon aloo received sixty-four wounded, although the next morning Citizen Clussret, the asting Minister of War, had it placarded all over the city that the losses of the National Guards only amounted to "one killed and two wounded!" Funeral processions, draped in huge red flags, can be met with in the streets of Paris at any time, and, indeed, they are rather too frequent to allow reports like the above to be believed, even by the most credulous. The bringing out of a train of ambulance waggons in day-time came near being a serious matter for Dr. Chenu, the Director of the International Society for the Wounded. The Commune found that such display might discourage the troops; and hence the arrest of Dr. Chenu and his son at the Conciergerie. They were taken there in the morning; but when night came, and finding that no preparations had been made for food or bedding, they were discharged without a hearing.

The Ambulance de la Presse has received, since the beginning of the rebellion, 2400 to 2500 wounded. Every Hospital has received a greater or less number, and many of

them have been taken to their homes, so that the whole number of National Guards wounded cannot amount to less than 5909. of National Guards wounded cannot smouth to rees and over.

As to the dead, it is difficult to form anything like a correct
estimate; but, judging from the Beaujon Hospital, which I
mostly visit, their number must be considerable; and specially do I find their percentage large: out of 203 entries there are 48 deaths. Among the wounded in that establishment are three women; two of them cantinières, the other a Believille woman, wounded while fighting in line with the men.

Living, as I do, in the Arc de Triomphe quarter, it is of daily occurrence to hear of half-a-dozen innocent persons, often women and children, killed or wounded by shells from the Versailles batteries. The farthest that these missiles have come, thus far, is to 163, Boulevard Haussmann. Provisions have gone up wonderfully, and; since the Versaillee forces are carrying on a regular siege, it is not unlikely that many an article of food will be wanting before order is restored.

GENERAL CORRESPONDENCE.

INSTRUCTION IN MENTAL DISEASES AT EDINBURGH. LETTER PROM DR. DYCE DUCKWORTH.

[To the Editor of the Medical Times and Gazette.]

Sir.—Inasmuch as your journal is the medium for introducing Professor Laycock's lectures on Medical Psychology to the Profession, and as his teaching of this subject has lately called forth some controversy in another periodical, I shall be glad if you will permit me, as a former member of Dr. Laycock's class,

you win permit me, as a former memoer of Dr. Laycock senses, to bear my humble testimony as to the great value of his course. The study of mental pathology, according to the Professor's method, was certainly rendered more attractive to the general student than would otherwise have been the case, and a wide scope was given to the subject, which could not have been secured by mere descriptions of morbid mental states. In fact, the teaching was most philosophical, and of such a character as could only emanate from one who was at once both a profound thinker and acute observer, and also a first-rate practical Physician. The systematic instruction was subjected to clinical the state at an asylum which we visited regularly, and, indeed, a directly practical bearing was maintained throughout the course. I believed at the time, and I think so still, that I was fortunate to be instructed by one who was so far in advance of his day as a thinker and teacher, and I feel bound to acknowledge here the assistance I have derived in the ordinary practice of Medicine from an application of Dr. Laycock's principles, especially as set forth in his lectures on Medical Psychology. I know, also, that others can offer similar testimony upon this point.

I say nothing of the increased opportunities now afforded in various schools for the study of insanity, but I beg to remind various schools for the study of insanicy, our 1 weg to remning your readers that Professor Laycock was amongst the first Physicians in Great Britain who systematically and clinically taught this subject, and the Edinburgh School owes him-and, I believe, tenders him—a recompense of gratitude for his steadily and successfully maintained efforts.

April 17. I am. &c... Dyas Duckworzy M D

I am, &c., DYOR DUCKWORTH, M.D.

[To the Editor of the Medical Times and Gazette:]

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Six.—A controversy having arises in another journal between.

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Frofessor Layocok and others upon this very important subjoot,

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of opinion that Psychological Medicians should be included in

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agent, and it can be a subject to require for this

degree, and it causes on the Bractice of Medician; but

even then I question whether the psychological tenshing would

not well carried out and arranged as it is at present, for

how well carried out and arranged as it is at present, for

how well carried out and arranged as it is at present, and

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and consequently more sparse time; the season of the year is

and so better adapted and two rea squeezed for c'arralling or the

different asylams for clinical instruction. With regard to this

distance and the property of the pr Str.-A controversy having arisen in another journal between

delivered in the University. It is difficult to understand, as "J. B. T." suggests, that the Physician of the present day should be contented with simple descriptions of insanity as it exists—as a bodily disease; and even then he can have but a vague notion unless he is, to a certain extent, learned in meta-physics. It is needless to refer to the words quoted by "J. E. T." from Griesinger, Professor Layooch having suffi-ciently commented upon his remarks in a letter to the British Medical Journal of the 8th inst., and in which he, doubtless, thoroughly convinced that gentleman of his error. In conclusion, I must add that it is indeed lamentable, in the present state of Medical education, to mu generalized bold high positions content themselves with the dogmas of past I am, &c., April 17.

HAMMOND'S "QUARTERLY PSYCHOLOGICAL JOURNAL."

LETTER FROM DR. GEORGE E. DAY.

[To the Editor of the Medical Times and Gazette.] Sig.—Will you permit me to state, through the medium of your pages, that, having been requested to contribute a quarterly letter on the Progress of Psychological Medicine, Anthropology, and Medical Jurisprudence in this country to the New pology, and Medical Jurisprudence in this country to the Nre-Jork Questriety Journal of Psychological Medicase (edited by Dr. Hammond), I shall cateom it a great favour if geutlemen writing on these subjects will kindly forward to my address any memoirs, books, etc., that they may wish me to notice? With regard to books, I must request it to be distinctly understood that they will be duly returned to their respective authors, and that they cannot be accepted as presentation

oopies. I am, &c.,

GEORGE E. DAY, M.D., F.R.C.P., Late Professor of Medicine in the University of St. Andrews.

Furzewell House, Torquay, April 14.

ON THE TEMPERATURE OF THE BODY IN TETANUS.

LETTER FROM DR. JOHN W. OGLE.

[To the Editor of the Medical Times and Gazette.] SIR,—When bringing before the Clinical Society, in October last, a case of recovery from tetanus,(a) I drew attention to the fact that, during a considerable period, and at a certain stage of the attack, the temperature of the patient, in addition seagour the access, and temperature of the patient, in addition to its being unusually high, was found to be augmented in the evening. I was thus led to offer the suggestion that possibly this diurnal variation in a case of true tetanus might be found to obtain generally or even universally. night be found to obtain generally or even universally. Since then, I have had so opportunity of making further search as to temperature in this disease, but Dr. W. W. Keen, Of Philadelphia, has sent me an account of a case of tetanus which was under his eare(b) in St. Mary's Hospital in that ovening temperature was markedly higher than in the morning. Dr. Keen gives a table showing that durmal state of the pnise, respiration, and temperature, and observes that he does in response to my suggestion above glueded to, and for comso in response to my parison with other o

Encouraged by this timely contribution on the part of Dr. Keen, I am induced to ask such of the readers of your columns as may meet with cases of tetanus if they will have the goodness to note and record the morning and evening temperature of such patients with a view of testing the suggestion. Especially, I suppose, might regularity of variations as to temperature be anticipated in those cases which, according to some perature be anticipated in those cases which, according to some observers, have nore or less of an interminent or periodical character; and, if variations are observed, it may be that fine-than the control of the con JOHN W. OGLE, M.D.

⁽a) Medical Times and Gazette, October 22, 1870. (b) Medical Times (Philadelphia), March 1, 1871.

THE POLICY OF GARRISONING INDIA AND OTHER WARM CLIMATES BY IMPERIAL TROOPS.

[To the Editor of the Medical Times and Gazette.] Sin,—Supposing for a moment that the physical condition of the men composing it has anything to do with the efficiency of an army, and that the object of our legislators is not merely to have so many units on paper, called men, perhaps the question might be asked whether it would not be an improvement on our present system of one Imperial army for home and abroad in times of peace, to have two armies, one for the United Kingdom in times of peace and for foreign service (especially in Europe) in times of war, and another army, totally distinct from it, for the garrisoning of India, our colonies, and other foreign possessions, especially for those situated within the tropics, or bordering upon them? Surely, most people will agree that a man who has served several years—say even five or six-in a hot climate, is not fit for a year or two, after his return to Europe, to endure the hardships of a campaign in the depth of winter. Can we always insure, to regiments returning from India and other hot climates, these one, two, or three from india and other hot climates, these one, two, or three years in comfortable English barracks? Supposing that war breaks out suddenly between onrselves and Russia, for instance, would Government not probably recall every man that could be spared, or who it was thought could be spared, from India, etc., etc.? And how would these men get on in a campaign against Russia in the snow? Fancy fighting that power with an army partly composed of tropical invalids:—for invalids those who have spent years in a warm climate are, as far as their power of standing wet and cold is concerned. Excellent service they would do if left in a climate to which their constitutions had become assimilated; but not all at once-if, indeed, ever had become assimilated; our not his at outcome, indeed, or-in a cold, damp country. Imagine a dozen regiments col-lected from such places as the East and West Indies, China, and Ceylon, and sent at once to face such a winter, on a campairn, as the Prussians have just gone through. What and Ceylon, and sent at once to lace such a winter on a campaign, as the Prussian have just gone through. What would be the death-rate? How many really effective men would remain ont of the twelve regiments at the end of the first month? It surely would be very much better if all idea of nrs monn: It surely would be very much better if all idea of holding our tropical possessions, if not our other foreign posses-sions (hardly any, except Canada, knowing what frost means), by Imperial trops were given up, and men for these places specially enlisted. It probably would not be difficult to form a local army

They have become accustomed to the country, and like it; and first-rate soldiers while in a hot climate they are. Some men at home fancy they would like the East, and would enlist for service there. By getting the one class into a tropical army we should secure the services of men whose constitutions had undergone the change which long residence abroad in hot countries in most cases produces (or, at any rate, if there be no such thing as acclimatisation, they have proved their power to live in a warm climate), while ridding the Imperial army of those who would probably be useless for a winter campaign in a cold climate. On the other hand, many who would not enter our home forces would enlist for the troops for India especially. If all the Imperial troops in Hindustan and other hot countries were recalled, those wishing to remain being allowed to volunteer for the local armies, it is probable that we should find that a very considerable number would so volunteer, and, with the a very considerable number would so volunteer, and, with the addition of recruits from Europe and India, a tropical army could be got together in a very short space of time, while by the recall of the present Imperial troops serving abroad, many a constitution would be saved from becoming thoroughly assimilated to that possessed by the natives of the tropics assimilated possesses a local Medical, a local Commissariat Department possesses a local Medical, a local Commissariat Department of the Decorporation officers for her native army, and local officers, but European officers for her native army, and local officers belonging to the large Indian Staff Corps em-ployed in various kinds of duty. Why not make everything local? Why have two distinct Medical Services—the British and the local? Would it not save that over-taxed country something to hand over all Medical duties there to the local service, and recall the British Service, who, with increased land forces at home, might find their present numbers none too great? If either Medical Services must be increased, let it be the Indian, and let it take over all the Medical duties of that

the Indian, and let it take over all the medical quities of similar country. Surely this would be a more simple plan than the much-talked-of amalgamation. The West Coast of Africa has a local Medical Service. Could it not be developed into a

for India; and why not for other places? If the thing ever is done, let it be done thoroughly. Numbers of men who have served ten or twelve years in the East Indies (and who are probably

about as fit to stand a campaign in an European winter as a Hindoo) would volunteer for a Local Indian European Army general tropical service ont of India or into a colonial corps?
The constitutions of officers, strange as it may appear, become
fitted for a hot climate, or, at any rate, unfitted for hard-hips
in a cold one, much in the same way as those of the men.
Hoping that these views may be considered sound, and that
the nation may be spared the spectacle of tropical soldiers
breaking down by the thousand in the next winter campaign
in which we may become engaged in Europe or America,
I am, &c. X. X.

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

TUESDAY, APRIL 11.

THOMAS CURLING, F.R.C.S., etc., President, in the Chair.

Dr. Alexander Silver road a paper
ON A CASE OF RETROGRESSIVE LARIO-OLOSSO-LARYNOEAL
PARALYRIS.

The patient, W. G., was a man, aged 55, by trade a carriage-smith, twice married, and temperate. He had been generally healthy, but in his history there were certain facts pointing to applithic infection. He had previously been an in-patient at the Middlexe Hospital for incomplete night hemiplegia and left facial palsy, with difficulty and indistinctors of speech. He was gradually recovering, when he was again seized and brought to Charing-cross Hospital, where he was seen by Dr. Silver. On the morning of January 5 he was able to swallow his breakfast and to speak indistinctly. By noon on the same day he could neither speak nor swallow; the right corner of his mouth was drawn downwards, and an abundant tenacions his mouth was drawn downwards, and an abundant renacions saliva flowed from it. When admitted, his right eyelid drooped, and his mouth was dragged over to the right side; his lips were thick and blubber-like; and from the depressed corner of his month flowed an abundance of thick viscid saliva. He could not close his mouth, even imperfectly; he could not protrude his tongue beyond his teeth. There was some degree of paralysis of the soft palate, for his respiration was snorting; but food or drink did not regurgitate through his nose. His intelligence was perfect, but when asked to speak, only the rush of air through the open powerless larynx could be heard. He had complete command over his limbs; he could heard. He has compete command over ms innus; ne couse illt both legs off the bed, and smartly withdrew either when the sole was tickled. His senses were perfect, but dull. His bowles were obstinately confined. His breathing was very imperfect and shallow; respirations 36 a minute; pulse 120, and very feeble. His appetite was unimparied, and his power of taste uninjured; for a time he was fed solely by the stomachpump. Notwithstanding the quick pulse and rapid respiration, his temperature for long remained at 97° in the axilla. The breathing was mostly abdominal, but there was slight action of the intercostal muscles. Expiratory power was most deficient. From the period of his admission up to the present time the patient has continued to improve in every respect. As to treatment, iodide of potassium was given in scrup to treatment, iodide of potassium was given in scruple doses three times a day. Occasional blisters were also applied to the three times a day. Occasional blisters were also applied to the property of the service of the paralysis of the service of the paralysis of the service the paralysis of the service of of the whilst that referred to by Junisemne was muranassy as wassen, The name is the more appropriate as the case in many respects closely resembles one of the progressive variety read back-wards. The state of this patient seemed, when first seen, identical with that of one suffering from the progressive form of the disease just before its fatal termination. At any moment the patient might be carried off, as if the case were progressive; but the tide once fairly turned, there was a chance of recovery, however gradual. These different morbid chance of recovery, however gradual. These different morbid conditions evidently depended on lesions of certain nervetrunks or roots. Thus the paralysis of the lips would imply paralysis of a portion of the facial on both sides, but this nerve paralysis of a portion of the racint on buth suces, out the herve was apparently more affected on the left side than on the right, since the month was drawn to the latter. Again, the paralysis of the muscles of mastication implied loss of power in the motor

(a) For a sample case of the latter, see the Archives de Physiologie, Normale et Pathologique, for July and August, 1870.

April 22, 1871. 465

branch of the trigeminus. The paralysis of the tongue—that is to say, his inability to protrude it beyond his lips—would imply paralysis of the hypoglossal. The inability to swallow, and the respiratory and cardiac complications, pointed to the implication of the vague; whilst the loss of vote was due to paralysis of the cerebral portion of the spinal accessory. It so happens that one section of the medulla oblongata made and figured by Dr. Lockhart Clarke illustrates this to a nicest. In it are displayed the hypoglogue. trates this to a nicety. In it are displayed the hypoglossal traces this to a meety. In it are displayed the hypoglossul and spinal accessory springing from their nuclei, and lying between those and the central canal, the cut band of fibres constituting the long root of the facial. Injury to the nores constituting the long root of the facial. Injury to the medullary substance at this level would inevitably occasion more or less loss of voice, both as regards articulation and phonation, with paralysis of the orbicularis oris. Higher up, where the hypoglossal nucleus has almost disappeared, these it to be a to the original property. up, where the nypognossal nucleus has almost disappeared, there is to be seen another descending band, closely connected with the descending band of the facial, at this level greatly increased in bulk. This new band constitutes the descending, increased in bulk. This new cand constitutes the descending, or motor, root of the trigeminus, which, speaking broadly, presides over the muscles of mastication, and which (for it has been traced downwards to the level of the lower portion of the olivary body) is thus brought into exact accord with the facial and hypogloseal. At first, the most dangerous symptoms were and hypogrossal. At first, the most cangerous symptoms were cardiac and respiratory, and this imperfect action of the heart and lungs is exactly what follows section of the pneumogastrics in one of the lower animals. Their infibitory action on the heart is thus removed. Here, therefore, the nerre affected would seem to have been the vagus, and that, too, at its nucleus rather than in its course. Finally, as to the saliva, a partial rather train in its course. Finally, as to the sairva, a partial paralysis of the cords tympani, and a withdrawal of its influence from the sub-maxillary gland, might, by overturning the normal balance between it and the sympathetic, produce a flow of thick and tenacious instead of normal saliva, and so relegate the phenomenon to the same site as the others-that is to say, a minute space on the floor of the fourth ventricle

and upper portion of the medulla oblongata.

Dr. Daysdall said that in syphilitic patients there was often hemiplegia and loss of speech. Such a case had been under his hemiplegia and loss of speech. Such a case had been under his care not long ago. He thought there could be no doubt of the syphilitic nature of the present case. He thought the lesion

ould be the result of a soft deposit, not of a bony node.

Mr. Barwell had seen several of these cases with Duchenne In some, one side was affected more than the other. He asked how certain muscles of mastication remained unaffected, whilst

others were so early in the case

Dr. BROADBENT concurred with the previous speakers in their high estimation of the value of the communication. He agreed high estimation of the value of the communication. He agreed with Dr. Silver that the group of symptoms met with in labio-glosso-laryngeal paralysis was indicative simply of lesion in a certain part of the medialla oblogata; and this, though usually degenerative in character, might be due to other morbid changes. Ducheme and Trousseau, in prefixing the term progressive, and in insisting on a certain definite course as a feature of the disease, had, so in the case of locomotor flaxy diverted attention in some degree from the endeavour to fix.

unon the exact seat and nature of the lesion, which was the upon the exact seat and nature of the lesion, which was the really important question in affections of the nervous system, by setting up a type to which cases were to be referred. In a case which had been under Dr. Broadbent's care for some time, there were all the symptoms described by these observers; but the access of the paralysis was sudden, and there was little sub-sequent change, facts which pointed to hemorrhage as the probable cause. He also differed from Duchenne in the interpretation of some of the symptoms. The respiratory movepresents to some of the symptoms. The respiratory more-ments are impaired in these cases, and, according to Duchenne, expiration is especially enfeebled. Expiration is, however, mainly due to the elasticity of the lungs, partly, also, to the elasticity of the thoracic parietes, very little to any muscular action, and is labin decay. ematicity of the choracte partners, very nittle to any incomman action; and in labio-glosso-laryngeal paralysis, the feebleness of expiration is proportionate to, and consequent upon, the feebleness of the antecedent inspiration. Coughing and sneezing, which are instanced as expiratory actions gravely impaired, are rendered impossible by the impossibility of closing the larynx and fauces, an act which is necessary for the production of the explosion of the cough or sneeze. While accepting generally Dr. Silver's admirable demonstration of the seat of the lesion, Dr. Broadbent considered it probable that it involved an elongated longitudinal tract along the middle line at the back of the medulla, rather than a limited transverse segment. The nuclei of the motor nerves involved—the spinal accessory, hypoglossal, facial, motor division of fifth (the last more deeply situated)-succeed each other from below, upwards, around the spinal canal, and alongside the middle line of the floor of the

fourth ventricle; and he did not see how they could all be implicated at any one point, especially without affection of some sensory nucleus laterally situated at the same level in the medulla. It was more difficult to decide what was the nature of the morbid change; it could not be degeneration, since the of the motor encourage. It count not be degreement, sales the patient was recovering. The probable alternatives were, as Dr. Silver had said, hemorrhage and syphilis, and each presented difficulties. Possibly there might be a small blood-clot in the upper end of the spinal canal and in the groove along the middle: line of the floor of the fourth ventricle.

Dr. J. HARLEY remarked on the distribution of the disease... In the earlier history of the case the motor centres were.

In the earlier history of the case the motor centres were affected, and apparently were so when the present malady came on. It would be worth while, therefore, to take into-consideration the possibility of general softening.

Dr. Sitvan, in reply, thanked the Society for the reception his paper had met with, and especially referred to Dr. Broadbent at alle criticism. He hardly thought, however, the explanation given by Dr. Broadbent, as to sto, was correct, as parts not immediately on the surface of the special control of the state of the state

Dr. Robert Lee read a paper "On Amputation of the Can-erous Breast." The object of this communication was twocerous Breast." fold-first, to describe a case in which a woman, from whomwhom both mamme had been removed, was delivered of a child; and, secondly, to point out the different opinions of eminent Surgeons and Physicians as to the desirableness of amputating the breast in cancer, the danger of the operation,

and the frequency with which it is needlessly performed.

Mr. Spences Wells asked if the tumour weighing a pound.

and a half was cancerons.

Dr. Lee said the tumours removed were not cancerous. Truecancer always returned, and these had not. Breasts used to befreely removed in Edinburgh; most of the patients recovered from the operation, but many again returned, and some died in the country. Amputation was no cure for the disease. Mr. George was anxious to hear an expression of

opinion as to the propriety of the operation. His experience was that cancer returned outwardly or inwardly. In one-patient on whom he had operated two years ago, the diseasehad not yet returned.

Dr. John Hablet did not remember a single case of recovery ; he did not even think the operation prolonged life.

Mr. BARWELL was of opinion that no single individual could say decidedly whether or not the operation was beneficial. Statistics could alone prove that, and they showed the operation prolonged life. After five years without return, the patientrespectively.

Mr. Hulke felt bound to say that he never heaitated about the operation when it could be done fairly. It was not a final core, still it prolonged life, and greatly lessened suffering, both

mental and bodily,

Mr. Birkert said people ought to have full histories before publishing cases. Dr. Lee's first case was not of the slightest value, nor had it any bearing on the discussion. Patients oftenvalue, nor had it any bearing on the discussion. Patients often-came saying they had cancer, when they had nothing of the kind. When the whole gland was not removed, pregnancy would have been succeeded by the contract of the succeeded of sover 40, the discusse returned. By judicious operation they might do all Mr. Hulke said. He knew of some living tean years, many from five to ten years after operation, even whose the breast had been ulcerating before the and the succeeded. In Surgery, amputation of the succeeded the succeeded in largery, amputation of the succeeded the succeeded. There was not a greater mortality than 5 per cent. at Guy's. He himself had only lost one patient.

Mr. J. B. Hill agreed with what had been said. He knew

MIL. J. D. IIILL agreed with what had been said. He knew a patient who had been operated on fourteen years before.

Dr. LEE said Mr. Paget's statistics showed a mortality of 10 per cent. He himself had seen people die from the effects. of the operation.

WE (says the Mechanics' Magazine) may hope to see-1 Says the accounted magnetic; may nope to 800-water-pipes, not only conveying water, but filtering it at the same time, since it is found that iron prepared in a spongy state, by calcining finely divided iron with charcoal, is a superior deedoriser to animal charcoal. Sewage water passed through a filter of spongy iron is completely purified. A spongy-iron filter renders water beautifully transparent, and apparently free from organic matter.

ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

SATURDAY, APRIL 15 .--

Dr. Daurer. President, in the Chair ...

A convensation took place as to the practicability of carrying out the Act giving power to close houses unfit for human habitation. It appeared that in some parishes the Act had been put in force, and that this was feasible when the Medical

Officer was supported by the surveyor.

Dr. Inpr called attention to the arbitrary powers given to water companies. He thought in no case ought power be given them to cut off the supply of an article so essential in very respect as water.

It was agreed that the President should represent the matter to Mr. Lefevre.

After some conversation, in which there was almost unanimum testimony to the increase of small-pox in the metropolis, except in the parish of St. John's, Southwark, and to the entire cos

tion of the desire for revaceination, The PRESIDENT read a paper on

PHYSICAL EDUCATION AN ELEMENTARY SCHOOLS.

It has occurred to me that the physical education of the children of the poor would be a profitable subject for discus-sion by Medical Officers of Health at the present time. As is very well known, the Elementary Education Act, 1870, has given an impulse to popular education, and has called into existence School Boards endowed with ample powers for the establishment and regulation of elementary schools. The retainstances and regulation of escenerity sensors. In B. and will have to consider, not only what is abstractedly best regard to the waste of the poor children, and the necessity of not pressing to ohard on that infinitiously over-weighted body, the ratepayers. I will renture briefly to consider the subject in the light of the experience I gained when Medical Officer of

in the light of the experience I gained when Medical Officer of Health of St. George, Ilanover-square.

We may begin with the school premises, for which, as a first. We may begin with the school premises, for which, as a first part of the second condition we require space, and for the third, space. We require spacious school-tomes, spacious offices, and spaceious grade or playgrounds—and, unfortunately, in a crowded town space is the element most difficult to secure. Great towns now, like Satura, devour most difficult to secure. Great towns now, like Saturn, devour their own children; ground is so rapidly covered with buildings—the landowners and builders care so little for anything besides converting a worthless field into valuable house property—all provision for the health and recreation of the community is o disregarded, that it is to be hoped that the Legislature will some day forbid the erection of more than a certain number of houses or the securalistic or more than require a certain space of ground to be set apart, first of all, for the education and precasion of the varue. But at the security of the secur for the education and recreation of the young. But at present, in the older parts of towns, enormous sums of money have to

in the nider parts of towns, enorganess sums of money have to be paid for narrow and insmillations plots of ground.

space, combined with sensitary sensitistin, are laid, down-by the Privy Council. No school is entitled to receive any, annual grant from this source-nakes it is "held in a building certified to be healthy, properly lighted, drained, and ventilated, supplied to be healthy, properly high ted, drained, and ventilated, supplied with offices, and containing in the principal schoolmon at least, with offices, and containing in the principal schoolmon at least, attendance; "and the regulations require that this cultical space shall include eight square feet of area. Of course the room must be ten-feet high, but subio space is not, to commute the definient floor-space, and the eight square feet remaits for deficient floor-space, and the eight square fore superficial not demanded, however high the room may be... It is stated, and will not be denied, that a school common be properly worked, nor the children sessembled in class, with a less amount of floor-space; but it seems sto me quite below what is desirable. I find that a boy's seat and desk require four by. But, no far as space is concerned, the worst part of most schools are the galleries or resided cisros of easts in which the infants are placed, as alosely packed-ass flower-pots in a green-house. The warmsh and wenthaltion are most difficult subjects, but space is the best antisquard, here. The less, the space in proportion to the number of children the greater must be the-them. The room must not be too cold nor too hot and atuffy; but on all these points I have nothing new to offer. but on all these points I have nothing new to offer.

In the next place, the office of a school demand free space It is most objectionable to do what must, perforce be do crowded neighbourhoods (as, for instance, in building the Hanever Schools in South Molton-street, in the parish of St. George, Hanover-square)—to take for a site a simple parallelogram, formed by pulling down a house in a street, and blocked in between houses on either hand. It should be a fundamental between houses on either hand. It should be a fundamental rule that the offices should stand on an adjoining plot of ground, and by no means be threat into Canonical of the purallel of the p a dark_closets. Not only is considerable time wasted in serting, then out and alloting them at the end of the school-time, but the stench, the diffusion of vermis and of symotic disease may be imagined which result from the placing depether a mass of old foul garments, bot, sodden with perspiration. If the statement and the statement of the school obtained, important and troublesome parts of a chool obtaining. It may be escludated that each child will go one or more visits during each school-time, the worst-conditioned children make it is constant treated for absention them. tioned children make it a constant pretext for abscuting them selves and loitering; and the apparatus used requires to be efficient, but simple. There is no doubt that the curth-closet system is the best where it can be had; with water in any ape the results are very disgusting without constant superintendence, and any apparatus requiring nicety would soon be spoiled or destroyed.

The fourth portion of the offices is the lavatory, and in mos A ne source person of the omoos is the lavakory, and in most schools there is some provision of water, soap, and towels for washing hands and face; but this is a department which might be extended infinitely with the greatest benefit to all concerned.

be attached infinitely with the greatest benefit to all concerned. In schools in respectable neighbourhoods it is customary to send the children home if they have not clean faces and hands that would be as great a charity to wash the children as to teach there, and I most respectfully urgo that a copious apparatus of boilers, baths, and laundry ought to play a conspicuous parties. Amongst the apparatus which come under this head, must be elementary schools of the futures.

Amongst the apparatus which come under this head, must be mentioned a copious supply of water for drinking, codding the control of the control for some years the children used to drink the water from a cistern over the room containing the closets and urinals, which water, when analysed by Mr. Wanklyn, was found to contain a very large amount of ammonis and organic impurity, whilst that from neighbouring eisterns not exposed to similar relatile: impurities had the ordinary composition of Grand Junction

water. The next item is a yard or space for play, which must be considered an essential part of a perfect school. No child earn loop has found the perfect school. No child earn loop has found the entry of the perfect school. No child earn loseons or sums; and although, by varying the lessons, and interposing a little marthing or singing in the schoolcross-charged in the constant of the perfect school of the school in the year of become ground its or school of the school in the year of become ground in the same time, children are not allowed to many or of the perfect school of pround is or school of the perfect school of the perfec scarce that the idea as an impossibility and, an absentity. At-the same time, children are not allowed to march or be drilled, or even to play at any sugment with a symptomer's base, i'm Hyder-park. It seems hard that, whilst organized-bends of railions, with trumpets and drams, are allowed to take possession of the parks on Sunday afternoons for the propagation of doctrines of blasphemy, smartly, and pillings, that, the shilleron are not allowed she same privilege-for the beat of the latter.

Having finished with the buildings and appartenances, are now come to the children—sheir condition, and the respects in:

which it needs improvement; and I venture to say that the Medical Officer of Health who really desires to do his druy will find few more useful ways of spending an hour than by wisting the national and elementary schools regularly and often. Not to say that ha will find out the existence of epidemio disease, which is always first learned through the absence has not seen to the same of the name of children from school, he will be able to inspect the arms of all mose scholars, and certify to their vaccination—fact which only to be duly entered on the school registrar. What I propose for others, I did myself whits Medical Officer of Health; and I may say that, had this been done, we should not hear of the discreditable announcement made in some quarters lately, that 10 to 60 per cent. of the children in certain schools were found unvascinated in the present epidemio of small-pox.

The vaccination examination will disclose the state of personal The vaccination examination will disclose the state of personal cleanlines, which, in my opinion, should be the first subject of education, physical and moral, and which deserves to go before the three Rs, and nact only to religious teaching. Who-ever has examined poor children's vaccination will be surprised at the miserably dirty state of skin; the high-water mark on the neck and arms, where the pretences of washing couse; and the innumerable varieties of flea-bites of different dates. The poorly nourished state of the skin, sometimes moist and sodden, metimes rough as a file, and with all the sebaceous glands plugged, will also attract attention. The clothing, too, is wonderful for its quantity, its antiquity, and its rottenness. wonderful for its quantity, its antiquity, and its rottenness. It is amazing how many wraps some poor women put on their children. Most children, if allowed, wear a frowsy woollen comforter round their necks all school-time. Ontside, probably, may be a cleanish pinafore, giving a nest and tidy look to the child; under this, layer after layer of leprous rays in a state of decomposition, which have served the members of a family one after another for ten years, and are too rotten for buttons, but are fastened together by pins (I have counted as many as out air latering to gener by pins (in new counted as many as ten layers, comprising the pinsfore, including fragments of old waistcoats and a hareskin). As for the feet, it is lucky that the examination for vaccination had nothing to do with them. The same examination is sure to reveal skin disease, usually psoriasis—rarely scabies, so far as my experience goes. Bearing in mind that I have had to do with the children of the better class of servants and artisans in the richest parish in the world, I may explain that these poorly-dressed children have been found in those schools which belong to the poorest nooks and quarters behind Grosvenor-square—the children of jobbers, day-labourers, stable-helpers, improvident and out of work for a quarter of the year. Sometimes I am told that they are infested with bugs and fleas in ragged schools; but anyone would be astonished to learn what the masters and mistresses say of the prevalence of lice, even amongst children outwardly clean and stylishly dressed. In theory it may seem an act of charity for a householder to take a growing girl into his house, and let her assist in housework, see how housework is done, and have her food for her trouble; but I am assured that it is not possible to take girls into houses in this way, for fear that they should import these parasites, and that the small tradespeople and others who employ girls of this sort usually get more than they bargain for. The galleries in infant schools can only be kept free by the greatest care. Under these circumstances, personal cleanliness may well take pre-cedence of vocal music and general deportment in rate-supported schools.

porces serious.

I would therefore urge, as the first part of the catabilchment.

I would therefore urge, as the first part of the catabilchment are produced for a poor district, he setting pour large space and sufficient apparatus for a large space and sufficient space.

We want to contain the space and the space and the space and times. At present the masters and mistresses do not dare insist on cleanliness of person and neatness of dress to the extent which is requisite, from the fear of offending the parents, and lest these should take their children sway from early on this score. If a warm soon he present was the proper acreens, and if a "washing beadle" for the boys, and works, with washing-places separated by proper acreens, and if a "washing beadle" for the boys, and towels, with washing-places separated by proper acreens, and if a "washing beadle" for the boys, and teach the children how to wash their entire bodies effectually and, pleasantly, I believe no branch of education would be so, pleasant and popular, orattended with better results to-body and mind. Children should be taught the disperse of a dirty skin mind. Children should be taught the disperse of a dirty skin preparation for a temperate life than all the venomous cape—indeed of the and the wesonous cape—indeed of the proper and the control cape.

Children also want to be taught the care of the hair, how

exquisite are its colour and polish when quite clean, and how unnecessary are the filthy greases and essences used to disguise dirt. I understand that chemists in low neighbourhoods take immense sums over the counter in pence on Sunday mornings by the sale of seented oil for the hair. That most neeful weapon, the small-tooth comb (han which nothing acts better in polishing and cleansing each individual hair) is, I am told, out of vogue amongst the poor, who consider that the possession of one of these useful engines would be equivalent to resolute the same of the same than the same of the same should be a small laundry, where the girls should be taught to wash, iron, and meed their own and their brothers' clothers. This would be a most useful industrial lesson, and a needful appendix to the instruction in needlework which is given in all girls' schools.

If may be hoped that it will be in the power of the schoolmanager, under the new School Board, to discountenance the tawdry finery at present so common. There are many arenues to evil in human nature—leved of sex, idleness, love of gambling, gluttony, love of drink—but few are more destructive than the love of dress, which is part of the sexual instinct, and often to barter their virtue, for trumpery ornaments. But It know that our existing school-managers are almost powerless to enforce what they think right: girls' mothers keep them away from school because some artificial flower or bit of Brunmagem jewellery is objected to. All this time—while "girting them ruffles when wanting a shirt," or, as the poot

"Like Sappho's diamonds with her dirty smock"
—the under-clothing and skin may be poor, or ragged, or filthily

dirty.

Here is room for teaching. Children should learn that civilised beings should show honesty and sobnicty in their appared, not copy the dirt and grease and beads of savages. The hair clean and neatly braided requires no other oranaent; colours should be chosen because they hole clean, not because they hite dirt; cotton abould take the place of the half-putrid should yet of the woollen garments; and I am certain that the bad be added, were it the custom for Englishwomen to wear clogs in the street, and naked feet with sandlas indoors. On this point a benevolent and clear-sighted lady has written a pamphlet well worth perusal.

I have dwelt so long on these chronically neglected subjects, that I must hurry over that important part of the training of young children which consists in exercising their senses and giving them precision, the more so as there is very little to be improved upon in the present discipline of infant schools. Children are taught to sit still for a time, to look out for and obey the word of command, to move their bedies and limbs at given signals, and to march; they are taught form, colour, and numbers; and the only word I will add will be the hope that wocal music, itself a drill in a tetention and precision, to say nothing of other advantages, may not be discarded from the programme of new elementary schools.

The last point I will bouch apon is the gymnastic, the essence of which is that it shall train the whole body so that the cheet shall have the freest and most unembarrassed movement. This is the prime element in physical exercise; which being gained to stand well, to march in time, to have the free play of the shoulder-joints, to be able to throw, to run, climb, and swim, are mattern which should be partly taught as regular to the should be partly taught as regular to the should be partly taught as regular to the property of the should be partly taught as regular to the property of the should be partly taught as regular to the property of the should be partly taught as regular to the property of the property of the partly taught as regular to the property of the property of the partly taught as regular to the property of the property

I believe that what I have spoken of hits the worst blots in the physical condition of the poorer children, and points out the remedies. I don't think what I have urged would be very costly; but if it were, I believe every penny would be repaid by the diminution of sickness, and increased vigour, order, and well-being of the population.

Dr. Stalland expressed his approval of the contents of the paper, but thought there was one omission—namely, the supply of food to poor children. In many cases the children were incapable of giving proper attention for want of proper nourish-

Dr. Daurr quite concurred in this, but had considered it as forming a separate subject.

Dr. STALLARD, speaking of the proposal of the School Board to pay the school fees in certain cases, thought the experiment would have a demoralising tendency. The guardians had already this power, but it was carried out in very few cases. Mr. LIDDLE thought the only way of avoiding endless dis-

putes was to have some schools entirely free.

Dr. Ross was in favour of lower schools, giving elementary education gratis, and higher schools, giving more advanced

education, and requiring payment.

Dr. Kinn, in answer to the President, said there was the greatest difficulty in instilling proper habits into those who came forward as recruits.

THE PATHOLOGICAL SOCIETY. TUESDAY, APRIL 4, 1871.

Mr. HILTON, F.R.C.S., President, in the Chair.

A REPORT was read by Mr. HULKE from the Committee on Mr. Wagstaffe's specimen of Fibrinous Tumour of the Heart. The

Wagstaffe's specimen of Fibrinous rumouro, and reads, report entirely agreed with Mr. Wagstaffe's description, Mr. Balmano Sourbe exhibited a living specimen Elephantiasis Graecorum from Pondicherry, East Indies. patient was 24 years of age, but looked 50, and the disease was of seven years' standing. The history of the case supported the view that hereditary causation was not essential, if there

was such a cause at all, the disease being due to climate.

Dr. Tilbury Fox thought that the disease was propagated

by intermarriage. Many of the cases sent home were cases of syphilis and not of elephantiasis. Mr. Friederick Churchill exhibited two Tumours of the nature of Mole Transformations, both limited to the cutis, and not associated, as far as could be ascertained, with similar growths elsewhere. He said: In the fourteenth volume of the ociety's Transactions Mr. Bryant described a melanotic tumour developed in a mole, associated with secondary growths in the axilla. abdomen, etc. This is the only instance of mole transdeveloped in a money, assessed with secondary growns in sex swills, abdomen, etc. This is the only instance of mole trans-formation which I have been able to find recorded in the Transactions, I have two tumours of this nature to show to the Society this evening, both limited to the cutis, and not associated, as far as could be ascertained, with similar growths elsewhere. The first tumour was developed from a mole in eisswaree. Ane nest tumour was developed from a mole in the lumbur region. The patient, aged 45, first came under my notice in December of last year. She had noticed a slight button-like elevation of the skin over one of the lumbar spines from childhood. It was of a dark-brown colour, flat, and smooth. In July of last year she fell downstairs and injured her back. The mole-like growth, which had previously remained stationary, now increased rapidly. Two months later the tumour was as large as a grape, prominent, and peduncu-lated. A fine silk-thread was twisted around the neck of the tumour, but no attempt was made to strangulate it. tumour, but no attempt was made to strangulate it. And thread was worn for two months, when it was removed, as it did not check the growth. A thin watery discharge coxed out from the base of the tumour. She also had some pain in it. I advised her to have the tumour removed as soon as possible, and three or four weeks later (February 13, 1871) she returned, and three or four weeks saver (reordary 18, 1611) and returned, prepared to submit to the proper treatment. A wide margin of healthy integument was removed with the growth. The wound was quite healed three weeks after the operation. There has been no recurrence of the growth up to the present time. There was no evidence of hereditary or constitutional disease. The surface of the tumour was rough and nodulated, mottled of a dark-grey colour. It was attached to the skin by a very narrow peduncle. It was evidently a more aberrant form of growth than the wart-like tumour removed by Mr. Sydney Jones, although apparently developed from the same structures. A vertical section through the centre of the growth showed a radiated arrangement of light and dark bands from showed a radiated arrangement of igns and dark same from the centre to the circumference. The main bulk of the tumour had a single pedunele. There were wart-like growths on the surface. At the base of the tumour there were other distinctly pedunculated growths; these were much darker than the other parts of the tumour, and more deeply pigmented. The structural appearances of the two tumours, so far, resemble one turni appearance or the two tumours, so rat, resumme one another. Histologically, they are found to differ very consider-ably. In the more aberrant growth, the tissue is made up-of angular cells variously shaped, with bright nuclei, many of them undergoing fissiparous development. Some of the cells

contain two or three nuclei; the majority are pigmented. The more deeply-pigmented cells have a quantity of granular matter in their interior. There are, also, some cells arranged in groups. The radiated arrangement of the structure appears to be due the alternate arrangement of light and dark bands of cells. In the lighter bands, the cells are more distinct, and there is some evidence of fibrillation. Well-defined columns of deeply-pig-mented tissue are scattered about over the surface, and follow the more radiated arrangement. The central part contained very little pigment, and the minute structure of the tumour could be more accurately defined by sections taken from this part of the growth. The second of these was a tuniour removed by Mr. Sydney Jones from a patient in St. Thomas's Hospital, and I am indebted to that gentleman for the opportunity of showing it to the Society. A young woman, aged 17, had a large mole in the left lumbar region, which had existed from birth. She had not noticed anything unusual about it until three weeks before her admission, when a thick, dark-brown crust peeled off from the surface, and exposed a wart-like, papillated growth below, projecting from the surface of the integument. The area of the growth was six inches by two and a half inches. There was some cozing of fluid from between the sulei of con-There was some cozing of fluid from between the sulci of con-tiguous club-shaped growths. The central growths were larger and more prominent than those at the margin. Portions of the growth were covered by thick, laminated shreds of desquamating epidermis. There was a sealy cruption on the butteck of the same side, and she complained of sore-throat and frontal headache. There was no evidence of hereditary or constitutional diseases. Merocopile examination for the con-tinuation of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the conshowed simple increased development of the ordinary elements of the cutis, with an excess of pigment in the Malpighian layer of the derma.

Mr. Francis Mason referred to a warty growth removed by him, and shown to the Society at the beginning of the session. Mr. Chuncuill explained that the interest of the tumours above described was due to their both being developed from

moles, and not from warts.

Mr. HULKE mentioned a case of melanotic sarcoma which he had seen under the care of Sir William Fergusson, in which the normal pigment disappeared from several parts. He had noticed this in other cases.

Dr. Whipham exhibited a Tumonr of the Liver which he thought presented many of the microscopical characters of epi-Both ovaries were diseased, but there was no recent thelioma.

malignant affection of their structure.

manginant anection of their structure.

Mr. Arnorr was unable, from the histological characters described, to agree with Dr. Whipham that the case was one of epithelioma. He could not conceive its occurrence in the liver, although the disease was found to affect the intestine. (Referred to the Committee.)

Mr. HULKE brought forward a Large Medullary Tumour of the Belly, with a similar Tumour of the Orbit, of doubtful duration, taken from the body of a child 21 years of age. The child suddenly died. There was found after death, also, a white mass in the lung, which could be enucleated; and the mediastinal and abdominal glands were onlarged. There were numerous extravasations of blood into the tumours and into various parts of the body. The tumours were histologically seen to be composed chiefly of cells like white blood corpuscles. Perhaps it was a glioma arising from the semilunar ganglion.

Dr. Hane remarked that cancer in children was often of many years duration.

Mr. HULKE, in answer to Mr. John Croft, said that there were present the slight elevations of the temperature; and replied to Mr. Fairlie Clarke that the cause of death was probably due to hemorrhage into the cavities. (Referred to the Committee.)

Mr. FREDERICE CHURCHILL brought forward a specimen howing the effects of Ether Spray on the Skin in Addison's Disease. He said that at the previous meeting of the Society, the question was raised as to the nature of the bronzed skin in Addison's disease. Dr. Fagge considered that the increased Addison a disease. If rigge consistered that the increases pigmentation might be fairly stributed to physiological causes, the property of the property of the property of the property of the undoubted control over the functions of the supra-renal bodies as well as of the circulatory system, have associated the disease of the supra-renal capsules with bronzing of the skin as dependent upon a neurons of the sympathetic system. No doubt many upon a neutrons of the sympaneste system. No unon many in the control of the skin, and sice errad. It is generally admitted that the very frequent association of bronzed skin with Addison's disease would make it probable that they must be dependent upon the same cause. Kölliker and others consider the control and medullary portions of the supra-renal bodies as functionally distinct. A dense plexus of nerres, derived from the solar and renal plexuses, is found in the medullary portion, so that pathologists now consider it as an apparatus pertaining to the nervous system, while the cortical part is concerned in the claboration of blood-plasma. cortical part is concerned in the claboration of blood-plasma. Injuries of the spinal cord, in the lower dorsal region, have been found associated with hypertrophy of the supra-renal bodies. The patient on whom this experiment of blanching the skin was tried had injured his back by a fall. If, as supposed, the cortical portion assists in the elaboration of the blood-plasma, under the control of the sympathetic system, if seems reasonate to inter that excessive action of these blood glands would favour increased deposition of pigment when the circulation through the capillaries is embarrassed by imperfect or irregular action of the vaso-motor nerves. This well-marked case of Addison's disease was admitted to St. Thomas it Hepitial, under the care of Dr. Bristowe, and fully described by him in the nineteenth volume of the Society's Transactions. Those who watched the case from day to day considered that the depth of tint varied very much, and I was anxious to ascertain how far the variation in colour might be due to partial stasis of blood in the venous capillaries. For une to partial stasts of blood in the venous capillaries. For this purpose, I selected a deeply-bronzed part in the left flank, and directed a jet of other spray upon it. A patch of skin the size of a florin was immediately blanched. The partially detached epidermic scales were raised from the surface as white flocculi. The bronzed appearance of the skin returned as soon as the circulation in the part was restored. During the period that the skin was frozen, it appeared as white as the natural skin. Other portions of the skin were also frozen, but this was the only patch that became permanently blanched.
The same experiment was tried on a negro, but the skin, though and capperiment was tried on a negro, but the skin, though paled, was not blanched. The patient was sent to a convalescent institution, and returned to the Hospital in a dying state two months later. The frozen portion of skin bad decountered in the skin the skin, though pale was the skin the skin, though paled was not blanched. The skin the skin though paled was not blanched. desquamated, including the epidermis with its pigmentary layer, exposing a patch of blanched skin, which appeared to retain

all the normal elements except the pigment layer.

Dr. Greenhow asked if a cicatrix had formed, and observed that if so, the result would be explained, because the epidermis would be destroyed; if the epidermis is not destroyed, irritation

wonto be destroyed; if the ephtormins in the destroyed, in that has been observed to deepen the colour.

Mr. CRUECHILL replied that there was no cicatrix, and that the pigment of part faded into the blanched tissues.

Dr. Muscussor suggested that the cold may have paralysed the nerves of the part, and prevented the deposit of fresh

pigment.
Mr. CROFT observed that the effect of cold is to paralyse the superficial nerves of the epidermis, and render the colour

lighter.

Mr. Churchill, in answer to the President, replied that he could not say whether the temperature had been maintained. Dr. MURCHISON brought forward a specimen of Typhoid Ulceration of the Intestine, from the body of a man who had died suddenly from fatal hemorrhage into the intestine on the twenty-seventh day of the disease, and in whom there had been constipation. There had been severe headache, but no eruption present—in fact, the symptoms were negative. He brought forward the case—not a very unusual one—to disprove the common notion that continued fever with constipation is typhus, and with diarrhoa, typhoid fever. The case presented numerons other interesting clinical features.

Dr. Douglas Powell observed that the remarks of Dr. Murchison applied in many cases to ulceration of the intestines

in phthisis, even when the ulcers are old.

Dr. MURCHISON also exhibited a specimen showing Perfora-tion of the Appendix Vermiformis, consequent on an accumulation of vegetable and feecal matter, taken from the body of a lation of vegetable and necar matter, taken from the body of a girl who died six days after symptoms of acute perionic commenced. The symptoms could not be traced to injury or any other cause. It had been shown by Dr. Crisp that this occurrence was much more common in males than in females. Dr. Crisp said that he thought it to be due to the fact that boys use the right leg, as in football, more than girls.

EPIDEMIC AT MALIAS.—The patients suffering from the complaint prevalent for some time in Majpas are rapidly improving, and very few cases have been reported lately. At the last week's meeting of the Board of Guardians it was decided that the inspector of missances should prepare a plan of the main sewerage, with the view to place the town in a good and complete sanitary condition.

OBITUARY.

JAMES LOW WARREN, M.D.

AT Sunny Bank, Southsee, on the 6th of the present month, ided, at the ripe ago of 81, Dr. James Low Warren, formerly Surgeon of the 7th Hussars. Dr. Warren entered the service in 1815, joining the army of occupation in Paris after Waterloo; he served on the staff in the West Indies until 1825, when he was appointed Assistant-Surgeon of the 6th 1822, when he was appointed Assistant-Surgeon of the 6th Dragoon Guards. He was promoted and gazetted to the 7th Hussars in 1836, and served with them throughout the Canadian rebellion of 1838. He retired from the army in 1848, having completed a period of thirty years full-pay service. Such are the main points in Dr. Warren's honourable and useful military career; but his name will be remembered by many of our readers as having been most unjustly and wrongly maligned by part of the Medical and general press in con-nexion with the Hounslow inquest of 1846. The discussions raised by that inquest, however, and the attacks which were made in consequence upon Dr. Warren and his brother military Medical officers, led, mainly through the instrumentality of our interrap progenitor, the Motical Times, to the complete vindica-tion of Dr. Warren's character, and the utter discomfiture, in a court of law, of the late Mr. Wakley, then coroner of Middlesex, who, probably in order to pander to popular sensibilities and sympathies, was led to promote charges, which he ought to have known were worthless and unfounded, against the honour, humanity, and Professional character of Medical officers of the highest standing in the British army. The result, however, was the triumphant acquittal of Dr. Warren and his colleagues by all thinking men.

The story of the inquest is doubtless in the memory of many of our readers, but it still has its interest, especially when v remember that the experiments made in the direction of abolishing flogging in the army do not-as recent experience in India has shown—appear to have been productive of a higher state of discipline and subordination in that service, and as, moreover, the use of the lash in dealing with civil culprits has been attended with an undoubted diminution of certain outrages against life and property. The story of the inquest was, then, this:—A man, named Frederick White, of the 7th Hussars, aged 27, of dissolute habits, was tried by court-martial for agest 27, of dissolnte habits, was tried by court-martial for striking his superior officer with a poker, and was sentenced to receive a hundred and fifty lashes. The punishment was in-flicted on June 15, in the presence of Colonel Whyte and Dr. Warren, the Surgeon of the regiment. The culprit bore the punishment very well, was taken into Hospital under the care of Dr. Warren, and there made what appeared to be a rapid recovery. He was so well on July 4 that he assisted in cleanof Dr. Wattell.

Tecovery. He was so well on July 4 that he assisted in cleaning out the ward, and volunteered to wash out an out-building of the Hospital. He was to have been discharged well, but on July 6 the thermometer, which had been previously at 88°, White complained of pain in his side and suddenly fell 20°. over the region of the heart. He became worse, and died, after five days illness, on July 11. A post-mortem was made twenty-four hours after death by Staff Surgeon Dr. John Hall, in the presence of Dr. Warren and the Assistant-Surgeon of the in the presence of Dr. Warren and the Assatant-ourgeous use regiment, Dr. Riedi. The post-morten showed that the nan had died from recent endocarditis and pleurisy. There was recent effusion of lymph and serum in the left pleuris, and endocarditis on both sides of the heart. A portion of the integument of the back was dissocited off, and, with the exception of some discoloration of the cutis yera, was found to be quite healthy. A certifi-eate of the cause of death was given by Dr. Wairen and his col-leagues to the effect that the man had died from inflammation of the plenra and of the lining membrane of the heart, and that his death was not connected with the corporal punishment that his death was not connected with the corporal philadenteric received on June 15. The case, however, was reported by a elergyman to Mr. Wakley, who deemed it right to hold an inquest. No objection to this could be taken, but other proceedings of the cornone were utterly unjustifiable. He infringed the Act of Parliament under which he acted by not summonling the Act of rariament under which as accet by not auminomic Dr. Warren sulfitorities rary. Mcdical officers who had attended tions made, one by Mr. Day, of Isleworth, who was led by it completely to agree with the army Mcdical officers as to the cause of death, and one by Mr. Erasmus Wilson, who believed he found (although the body was decomposed), some pulpy softening of the multifidus spine muscle, which, he thought was the result of the punishment, and to which he attributed the inflammation in the contiguous pleura; but at neither of these examinations did Mr. Wakley allow Dr Warren, Dr. Hall, or Dr. Reid to be present. These gentlemen were not permitted to give evidence as witnesses at the inquest, and Dr. Warren was only allowed to make a statement, not on oath, as though he had been a culprit on his trial for murder or manslaughter. The jury returned a verdict to the effect that the man had died from the flogging. Mr. Wakley presided at a monster meeting, to protest against flog-ging in the army, at Exeter Hall, and the journal of which Mr. Wakley was editor, and a large portion of the press, took up the cry, and with it cast the most flagrantly unjust asper-sions on the characters and conduct of the officers concerned. Under these circumstances the then editor of the Medical Times published a leading article, which, after the manner of the day, was by no means written with a pen dipped in honey, but was by no means written with a pen dipped in noney, our which plainly stated that Wakley's conduct was stimulated by the want of a public sensation to help his fortunes at a coming election, and which completely defeaded and exonerated the army Medical officers who had been stateked. The result of this was, that Mr. Wakley applied to the Court of Queen's Bench for a rule calling upon the printers and publishers of the Medical Times to show cause why a criminal information should not be filed against them for libel. The information about not be nice against them for fibel. The rule was granted, and the case was heard by Lord Denman, Justice Coleridge, and Justice Wightman. The Medical Times was defended by Mr. Cockburn, and, after a patient hearing, the Coart manimously decided that, under the circumstances of Mr. Wakley's conduct throughout the case, the rule must be discharged.

Never did a journal obtain a greater victory in the protection of personal character and the vindication of public justice, and never did a public functionary meet a greater humiliation. The result, as we have said, was a triumphant exculpation of the army officers whose Professional conduct had been assailed, and ospecially of Dr. Warren, who had sustained the Medical responsibility of the punishment and of the subsequent treatment

of the culprit.

We have felt it our duty, in justice to the memory of Dr. Warren, an honourable and conscientious man, to place on Warren, an honourable and conscientious man, to place on record again the history of these occurrences, which could not fail to have caused him great annoyance. Array Medical officers, acting, as they do, under orders, are fully cattled to the support of the Medical press. We have little to add. Dr. Warren, the following year, retired from the army, and enjoyed his well-earned rest for thirty years. The verdict of the Profession and the thinking

thirty years. The vertict of the Profession and the thinking part of the public on his conduct throughout the trying scenes we have narrated was well expressed by the emphatic declaration of the Duke of Wellington, then Commander-in-Chief, that "had Dr. Warren not acted as he did, he would not have performed his duty to his country."

MR. THOMAS BROWN, OF ST. MARY-AXE, Was born in the City of London, in the year 1803. He was clucated at Chigwell Row, and afterwards apprenticed to Mr. Lewis, of Heydon-square. He received his Medical education at the united Hospitals of St. Thomas's and Gny's. He was a as the united noglitist of St. Anomas a and thy's. He was a pupil of Mr. Tyrrell, and commenced private practice in St. Mary-axe, 1825, and continued there until within a few weeks of his death. Mr. T. Brown was a most enthusiatic lover of his Profession, and took a great interest in all departments of science. He was conspicuous for his betweeners, amiability, remarkable modesty, and retiring disposition. He was a member of the Council of the Hunterian Society for many years, and became treasurer on the retirement of Dr. Cooke, He was also a member of the Court of Assistants of the Society The Wis also a memoer or the Court of Assistation to measure of Apothearies. He leaves to lament his many excellent qualities a numerous family; amongst his sons are Dr. Burton Brown, formorely of Gny's Hospital, and now principal of the Medical College of Lahore, and Mr. Gorden Brown, of St. Thomass, who succeeds him in his private practice. He died on April 15, of idiopathic anemia.

DR. OGDEN, OF BISHOPWEARMOUTH.
The late Dr. Ogden, graduated in Edinburgh and Paris, after
which he became Honorary Physician to the Bishopwearmouth Infirmary. His practice was very limited, being mostly
always gave kind and judicious advice. His principal pursuit
was the development of chemical science as applied to the arts,
in which he displayed great shillity and industry. Ho was
successful in his pursuits, and was very much esteemed in
private life. We are not aware that he was author of any publications. For the last two years he was sufficied with
paralysis. He diel, unmarried, in the 66th year of his age.

CHARLES HOUSLEY, M.R.C.S., OF PORT ELIZABETH, CAPE OF GOOD HOPE.

Our readers at the Cape of Good Hope will, we are sure, peruse this obituary notice with much regret. Mr. Heusley, to whom this obittary notice with much regret. Mr. Heusley, to whom it refers, was educated at Merchant Taylor's School, and commenced his Medical studies at Wakefold, in Yorkshire, where he was the fellow student and companion of the late Mr. Milner, the Medical Superintendent of the convict establishment, of whose death we gave notice some three years sign. After fulfilling his apprenticeship with Mr. Horsfall, of Wakefield, if we are not forgetful, Mr. Housley went through his stadies in London, and passed the College and Hall in the years 1837-8. He then entered the navy as a Naval Surgeon, and for two years served in the Medical tring a culies on the coase of the stadies of t at Mitcham, in Surrey, but soon removed to London, and practised there until the time of the Crimean war, when, on the formation of the Army Works Corps, he was recommended by Sir Joseph Paxton, with whom he had been long acquainted, str Joseph Parton, with whom he would be to fill the post of Medical Superintendent of the Corps. Obtaining this post, he accompanied the Corps to the Crimea, and remained with it until the capture of Sebastapol and the close of the campaign.

On his return to London, he resumed practice, first in Man-eliester-street and then at Haverstock-hill, when, hearing that there was an opening for a Medical man at Port Elizabeth, he there was an opening for a Medical man at Fort Edizabeth, as migrated to the Cape in the year 1883, and actiled there. He rose rapidly into practice in his new home; was made Surgeon to the volunteer artillery corps, and was frequently in charge of her Majesty's troops stationed at the port. He was also cicted on so of the Surgeons to the Provincial Hospital. In the midst of his career he became, about four years ago, conscious of failing health; he detected himself that he was suffering from diabetes, and he was distressed with abdominal pain when from diabetes, and he was distressed with abdominal pain when subjected to any unusual exercise. He, nevertheless, continued to perform his duties until the beginning of the present year, soon after which he rapidly broke down in physical power, pulmonary mischief being added to the other malades. He Professional friends, and arrived in London in the latter part of February. For a short time the severity of his ymptoms somewhat abated, but he continued gradually to sink, and died calmiy on Priday week last, April 14, at the house of his nephew, Mr. St. Honsley. He was attended to the close of Mr. Housley, when in health, was a fine, vigorous man, of an active and genial turn of mind; he was a straightforward in

an active and gonial turn of mind, he was straightforward in all he said, and possessed a sincere love for his Profession. He married Miss Tipple, of Mitcham, and has had three children, two of whom, with their mother, survivo. He was in his 55th

year at the time of his death.

MEDICAL NEWS.

ROYAL COLLEGE OF PHYSICIANS OF LONDON,-At an extraordinary meeting of the College, on Monday, the 17th inst., the undermentioned gentlemen, having conformed to the by-laws and regulations, and passed the required examina-tions, were granted licences to practise Physic, including therein the practice of Medicine, Surgery, and Midwifery:— Branfoot, Arthur Mudge, M.R.C.S., Guy's.
Clayton, Robert Palmer, M.R.C.S., Norton House, Broughton-lane, Munchester.

reare, seepn canama, m.r.c.s., London.
And the following candidates, having passed in Medicine and
Midwifery, will require the College licence on their obtaining
qualifications in Surgery recognised by the College:—

Noad, Henry Carden, St. George's. Roston, Henry, 8, Dorset-street, Stretford, Manchester,

ROYAL COLLEGE OF SURGEONS OF ENGLAND,-The following gentlemen having undergone the necessary exami-nations for the diploma, were admitted Members of the College at a meeting of the Court of Examiners on the 18th inst., viz .:-

Addy, Boughten, Southport, of St. Thomas's Hospital.
Batchieri, Fercimand Campiera, L. H.C. P. Edin, and L. S. A., Brixton-hill,
of Guy's Hospital.
Donese, John Habbury, Satton-in-A-hiled, of St. Thomas's Hospital.
Belling of the Computer of the Computer

Burraugia, George Llivard Elton, L.K. & Q.C.P. Ire, and L.S.A., Littehaupion, Sussex, of the Chariprerous Hospital, Chilett, Prancis Herbert Oakley, Kingsland-road, of the London Hospital, Combert, Prancis, Ennishlien, of duy's Hospital, October, Prancis, Ennishlien, of duy's Hospital, Rolmes, Robert Andrew King, M.D. Queen's Univ. Lev., Cough, co. St. Mary's Hospital, Pholines, Robert Andrew King, M.D. Queen's Univ. Ire, Cough, co. Karymon of the Andrew King, M.D. Queen's Univ. Royal Maybury, Hongas Hospital, Pholines, Charlett, Pholines, Carlotto, Christopher, Carlotto, Carlott

scurro, David, M.D. Queen's Coll, Kingston, Canada, King-London Hospital.
Nicholl, David Charles, Carmarthen, of the Edinburgh School.
Parry, Thomas William, L.R.C.P. Edin., Carmarvon, of the School.

von, of the Edinburgh

Benool.
Pellereau, George Elie, Mauritius, of University College.
Pritchard, Richard Henry, L.S.A., Treborough, Somerset, of Guy's Hospual. eston, Henry, L.R.C.P. Lond., Stretford, Lancashire, of the Manchester School.

School, William, L.S.A. High Wycombo, of King', Callege, Rose, William, L.S.A. High Wycombo, of King', Callege, School, Wilden, Spiller, O. H. & Zilahrech, School, Stafford, Thomas, Ripley, near Derby, of St. Bartholomev's Hospital, Stamford, William, L.S.A., Swindon, Witz, of the Middless, Hospital, Stiles, Edward Marsh, Chippenham, Wills, of St. George's Hospital, Turser, William Mullolland, L.S.A. King's read, S.W., of the Charing-

Turrer, William Mulholland, L.B.A., and the cross Hospital.

Cross Hospital. John, L.S.A., Woolwich, of St. Bartholomew's Hospital.

Wharry, Charles John, L.S.A., Woolwich, of St. Bartholomew's Hospital.

The following gentlemen were admitted Members on the 19th inst., viz.:-Blyth, Louis Gwyn, L.R.C.P. Edin., Weston-super-Mare, of St. Mary's

Blyth, Louis Gwyn, Lillouf. Essay, "Louis Cases," Deep of Good Hope, of the Edinburgh School.

Baine, Alfred Henry, L. S.A., Notting-hill, of Guy's Hospital.

Russell, William, L. S.A., Walworth, of Guy's Hospital.

Russell, William, L. S.A., Walworth, of Guy's Hospital.

Six candidates out of the thirty-five examined failed to acquit themselves to the satisfaction of the Court of Examiners, and were therefore referred to their Hospital studies for six months. were therefore recirred to enert Hospital statutes for SA members. The following sanalysis of Medical qualifications possessed by the candidates may be interesting: L.S.A. Lond, i. [2, LR.C.P. and S. Edin, et J. L.R.C.P. Edin, and L.S.A. Lond, i. L.R.C.P. Lond, i. J. L.K. & Q.C.P. Ire., and L.S.A. Lond, i. J. L.R. & Q.C.P. Ire., and L.S.A. Lond, i. J. M. D. Queen's Univ. Ire., i. and M.D. Queen's Coll., and J. Q. Lond, i. J. M. Q. Q. Lond, i. J. M. D. Queen's Coll., and J. Q. Lond, i. J. M. Q. Q. Q. Lond, i. J. M. Q. Q. Lond, i. J. M. Q. Q. Q. Lond, i. J. M. Q. Q. Q. Lond, i. J. M. Q. Q. Q. Q. Lond, i. J. M. Q. Q. Q. Q. Q. Kingston, Canada, 1. The next "primary" or anatomical and physiological examination will take place this day (Saturday), for which the usual number of 108 candidates have entered their names.

New Fellows .- At a meeting of the Council of the Royal College of Surgeons on the 14th inst., the following Members of the College, having previously been elected Fellows, were

admitted as such, viz. :-

Bradford, Edward, Honorary Surgeon to the Queen, and Deputy Inspector-General of Hospitals, Harrow, Middlesex, diploma of Membership dated

General of Huspitans, American States, Salop, May 30, 1831. Welliam Penny, Much Wenlock, Salop, May 30, 1831. Keate, Henry, Shrewsbury, June 20, 1836.

APOTHECARIES' HALL. - The following gentlemen assed their Examination in the Science and Practice of passed their Examination in the Science and Medicine, and received Certificates to practise, on Thursday, April 13, 1871 :-

Atthill, Robert Chapman, Stoke Newington. Bishop, William, Chipping Norton. Esager, Thomas Cawley, Ripley, Surrey. Head, William Cave, Lewes, Sussex. Healey, Thomas St. Chaï, Hull. Latimer, Henry Arthur, Plymouth.

As an Assistant in Compounding and Dispensing Medicines:-Brunton, Lucius William, Clifton, Bristol

The following gentleman also on the same day passed his First Professional Examination:—

Chambers, Eber, St. Bartholomew's Hospital,

APPOINTMENTS.

• • The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

Male, H. D., L.R.C.P.L., M.R.C.S.E.—House-Surgeon to the Lincoln County Hospital, vice G. Hett, resigned.

Millson, George, L.R.C.P.L. and M.R.C.S., to be House-Surgeon and Secretary to the Scarborough Dispensary and Accident Hospital, vice Thomas J. Denton, M.D. Edin., resigned.

WILKINSON, T. M., L.R.C.P.E., L.R.C.S.E.—House-Surgeon to the Lin-coln General Dispensary, vice H. D. Male, resigned.

MILITARY APPOINTMENTS. MEDICAL DEPARTMENT,—The second christian name of Depaity Inspector-creered of Hospital Medichan, promoted in the Gassier of November 23, peop Charles William Woodroffe, having completed twenty years' full-pay service, to be Staff Surgeon-Major, under the provisions of the Hojal Warrant of December 24, 1872.

TRAINING APPENDICT 21, 1870.

BREFER. TO be Inspectors-General of Hospitals: Deputy Inspector-General of Hospitals Robert Henry Rennick, Madras Establishment; Deputy Inspector-General of Hospitals John Henry Orr, C.B., M.D., Madras Establishment.

BIRTHS.

Cooke.—On April 18, at Upper Berkeley-street, Portman-square, the wife of Weeden Cooke, M.R.C.S., of a daughter.
MANNING.—On April 8, at Laverstock, near Salisbury, the wife of Henry John Manning, B.A., M.R.C.S., of a daughter.

MURCHISON.—On April 11, at 79, Wimpole-street, the wife of C. Murchison, M.D., F.R.S., of a son.

MARRIAGES.

BOYCOTT-HAWTHORN.-On April 18, at Stapleford, Cambridgeshire, Thomas Boycott, M.D., of Montague-square, London, to Grace Agnew, youngest daughter of the Rev. R. Hawthorn, of Stapleford Lodge.

youngest daugner of the nev. R. Dawlinder, or dispersed Loogy.

LAYCOGE-WERFER, -On April 18, a the parish church, Mackworth, Robert Charles Richard, only son of the late Charles Robson Laycock, M.D., to Mary Elizabeth, only daughter of Mr. Goorge Webster, of Lower Vicar-wood Farm, Mackworth, near Derby.

LUNDY-MILLER.—On April 11, at St. Stephen's, Shepherd's-bush, Louis Lundy, Surgeon, Feltham, to Margaret Caroline, fourth daughter of Mr. Robert Miller, Shepherd's-bush.

Parsons - Moore. - On April 10, at the parish church, Moreton-in-Marsh, Gloucestershire, Mr. R. H. B. Parsons, of Strond, solicitor, to Norsh, daughter of Mr. George Moore, M.R. C.S.E., Moreton-in-Marsh.

and Jaw Hatch, East Grantesat.

REYNOLES—Sayors.—On April 12, at 8t, Gabriel's, Warwick-square, the Rev. Samuel Harvey Reynolds, M.A., Fellow and Tutor of Brasenose College, Oxford, and Vicar of East Ham, Essex, elder son of Samuel Reynolds, F.R.C.S., of Dacre House, Lee, to Edith Claudia, third daughter of the late Rev. Caudius Bandry, Chaplain H.E.L.C.S., Bombay. IORENTS—BRIDGE,—On April 12, at St. Mary Magdalene's, Paddington, Edmund Hunphrey Roberts, Staff Surgeon Army Medical Department, to Isabella Maria Hope, widow of the late Edward Bridge, Captain H.E., and daughter of the late Ven. Archdeacon Bridge.

SRALE-JAMES.—On April 15, at Christ Church, Forest-hill, Thomas Seale, Surgeon, of Stonehouse, Devon, to Catherine Coulson, only daughter of the late Trevenen James, of London.

the late Trevenen sames, of London.
THOMAS—BROOMAN.—OR February 16, at Calcutta, Capt. Charles Frederick
Thomas, of the 6th Bengal Light Infantry, eldest son of the late Col.
G. P. Thomas, of the Bengal Army, to Matilda Irna, daughter of J. P.
Brougham, M.D., Fresidency Surgeon, etc., Calcutta.

DEATHS.

Brown, Thomas, M.R.C.S., of 16, Finsbury-circus, and 30, St. Mary-axe, on April 15, aged 68.

DUNNETT, HANNY JONES, M.D., late Deputy Inspector-General of Military Hospitals in Spain, at Manchoster-street, Manchester-square, on April 13, in his 84th year. CORY, FLORENCE LUCY, the youngest daughter of Dr. and Mrs. Cory, at Buckhurst-hill, on April 18, after two days' illness, aged 7 years.

FRENCICK, JANE, relict of the late James T. Fenwick, M.D., at Bolton Alnwick, Northumberland, on April 8, aged 67. Garrett, Mark Brown, Surgeon, at 4, Colet-place, Commercial-road East, on Easter Bunday, aged 59.

East, on Easter Sunday, aged 59.

GRANT, THOUSE WALKER, M.D., M.R.C.S., of 17, Edgware-road, London, W., on April 8, aged 50.

Grunnin, Honol, M.D., formerly of the Bengal Medical Service, and Super-Rendulge Sunga, and Super-Rendulge Sunga, and Super-Rendulge Sunga, and April 13.

HOUSELY, CLEAR, M.R.C.S., O'Pert Elizabeth, South Africa, at 70, Boundary-road, N.W., the residence of his nephew, on April 14, in the Solin year of his age.

Jackson, Thomas, M.D., son of the late William Jackson, Esq., at Hull, on April 10.

Ledsam, Shlina, the beloved wife of John Joseph Ledsam, M.D., at 17, Esplanade, Scarborough, on April 12, in her 78rd year. Marwett, Herry Dorolas, the infant son of Peter Marwell, M.D., at Stickney, near Boston, Lincolnshire, on April 16, aged three weeks and five days.

nre unys.

MITCHELL, MARY, widow of Alexander Mitchell, M.D., F.R.C.S., of the
Cape of Good Hope, at Notting-hill, on April 10.

MUREAY, THOMAS DEVOLAS, only son of John Murray, M.D., Wickham,
Hants, at Forest-hill, on April 16.

Hants, at rorest-mu, on April 10.

Outer, Herry, M.D. Edin., at Bishopwearmouth, on April 13, in the 66th
year of his age.

SMALL, George Wetter Oswald, youngest son of Surgeon-Major W. H.
Small, late of H.M.'s Indian Army, at 26, Colville-square, on April 12.

aged 20 months.

THOMAS, AND BEATRICE, youngest and beloved daughter of Dr. Thomas, AA. 139, Nottingham-place, on April 12, aged 4 years and 10 months. THOMPSON, WILLIAM, eldest son of the late William Thompson, M.D., at Abury-Tillas, Stoke Newington, on April 17, after a protracted illness. Wassers, James Low, M.D., half-pay, 7th Hussars, at Sunny Bank, Southsea, Hants, on April 8, aged 81.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession. ASSISTANT DISCRISERS IN HER MAJESTY'S NAVAL ESTABLISHERSTS.—An

open competition will take place on April 25.

upon compensuou will take place on April 39. Bestroi. Lavarric Asarius, Starktova, stas Bestroi.—Medical Super-intendent; must have both Medical and Surgical qualifications. A gentleman who has had practical experience in the musurement of a Lunaité Asylum will be preferred. Applications and testimonials to the Chairman of the Committee of Visitors, nor below Market.

Cheltenham General Hospital and Dispensary.—Resident Surgeon; must have both Medical and Surgical qualifications, and be registered. Applications and testimonials to Mr. D. Hartley, on or before May 20. Applications and testinomials to Mr. D. Hartley, on a section was Sol. East Hubbo Chravite Astruck.—Medical Supermitendent; must be duly qualified and registered. Applications and testimonals, together with a copy of the last Report of the Commissioners in Lunsay as to the state of the Asylum with which the applicant is now connected, to Mr. F. Hobson, Beverley, Yorkshire, on to before June 1.

sous, preverey, 10 resulter, on or terore same 1.

EAST WARE INSTON.—Medical Officer for the Borough District. Candidates must be duly qualified, and be registered under the Medical Act, 1858. Applications and testimonials to Mr. John Whitchead, Clerk to the Guardians, Appleby, on or before April 22. Election on the 2th.

GEROGETT, ACTURNING.—Redical Officer for the Parishes of Gleonochy and Inishase. Candidates must be duly qualified and registered. Ap-plications and testimonials to the Rev. D. M'Lean, Manse, Glenorchy, Dalmally, on or before April 27.

Distinguished and Desergative Thysician; must be a Graduate in Muslicine of one of the Universities of the United Kingdom, or a Fellow or Member of one of the Colleges of Physicians. Applications and testimonials to Mr. John Crossley, on or before April 22. Election on the 28th.

LONDON FEVER HOSFITAL,—Assistant-Physician; must be F. or M.R.C.P.L. Applications and testimonials to the Secretary, on or before May 9. Election on the 12th.

MANCHESTER ROYAL INFIRMARY.—Junior House-Surgeon; must have both Medical and Surgical qualifications, and be registered. Applications and testimonials to the Chairman of the Weekly Board on or before April 22. testimonials to the Chairman of the Weekly Board on or before April 2x-NABRERT USION,—Medical Officer for the Third District. Candidates must have the qualifications prescribed by the General Orders of the Poor-law Board, and understand the Weish language. Applications and testimonials to Mr. John Thomas, Clerk, Narberth, on or before June 17.

Election on the 19th. Naway Hospital.—Medical Officer; must have both Medical and Surgical qualifications. Applications and testimonials to the Secretary of the Fever Hospital, Newty, on or before April 29.

QUEEN CHARLOTTE'S LYING-IN HOSPITAL, 119, Sv. MARYLEBONE-BOAD. Medical Officer.

EGYAL PORTSHOUTH, PORTSHA, AND GOSPORT HOSPITAL.—House-Surgeon; must have both Medical and Surgi-al qualifications and be registered. Applications and testimonials to the Secretary, on or before May 3.

BOYAL SCREET COUNTY HOSPITAL.—Assistant Honorary Medical Officer. Applications to the Rev. C. R. Dallas, Farncombe Rectory, Godalming, on or before April 37.

St. George, Hanover-square, Dispensary.—Honorary Surgeon-Dentist; must be duly qualified. Applications and testimonials to the Hon. Sec., on or before April 24.

SOUTH STAFFORDSHIER GENERAL HOSPITAL, WOLVERHAMPTON. st be a Member of the Pharmaceutical Society. Applications and imonials to the "Chairman of the Medical Committee," on or before April 29.

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SOUTH STAFFORDSHIER GERREAL HOSPITAL, WOLVERHAMFTON.—Physician; must be M.D. or M.B. of the University of Oxford, Cambridge, London, Elinburgh, or Dublin, not 7, or M.K.C.F. London, Elinburgh, or Dublin, not practising midwifery or pharmacy. Applications and testimonials to the Secretary, on or before May 13.

to the Secretary, on or before May 13.

LESS, SHETAND-Medical Officer. For particulars, apply to Mr. T. Elimondston, 9, Albany-street, Edinburgh.

Wettherers of Shenata Dispressart—Honorary Physician; must be M.D. or M.B., and be registered. Applications and testimonials to Mr. J. Potter, Secretary, on or before April 24. Election on the 27th, at 11 a.m.

POOR-LAW MEDICAL SERVICE.

. The area of each district is stated in acres. The population is computed according to the census of 1861. RESIGNATIONS

Covening City.—The Second District is venent; askary £63 per annum.

Propose Union—Mr. George King has resigned the Brockley and Riede District, area Sign par Appendix per per annum.

Propose Union—Mr. George King has resigned the Brockley and Riede District, area Sign part of the Research Proposed Casin.—Thes. Davidson, L.R.C.F. Edin., L.R.C.F. Edin., to the Venedmonti District.

By Grillo, L.R.C.S. Edin., L.R.C.S. Edin., L.R.C.P. Edin., to the Muncaster District.

By Grillo, L.R.C.F., L.S.A., to the School.

Elin., L.R.C.F., L.S.A., to the School.

District. Comp. —Joseph H. Bennon, M.R.C.S. Eng., L.S.A., to the Uley District.

District.

District.

Herent Union.—Wm. F. Bennet, M.R.C.S. Eng., L.S.A., to the Warblington District.

Frivord Circin.—Henry J. Hunt, L.R.C.P. Lond., M.R.C.S., L.S.A., to Privard Circin.

Frivary Circin.—George Jones, L.R.C.P. Edin., L.R.C.S. Edin., L.F.F. and S. Gilas, to the Framingham District.

Federate Dison.—Bobt. S. Hudson, L.R.C.S. Ire., M.D., M.C. Queen's Univ., Ireland, to the Bodvath District.

Reigate Union -Wm, Chessall, M.D. St. And., M.R.C.S. Eng., L.S.A., Riejast Cuses.—Wm. Lucessall, M.D. St. Alex, Latter Scales, to the Southern District.

Sicospend Union.—Wm. Brocklesby, M.R.C.S. Eng., L.R.C.P. Edin., to the Ochocumby District.

Warminster Evision.—Robst. L. Willeox, M.R.C.S. Eng., L.R.C.P., L.S.A., to the Longbridge Deverall District.

DR, RUMSEY, of Cheltenham, one of the Crown nominees on the General Medical Council, has resigned his seat on that

Board. MR. L. C. MIALL has been elected to the Curatorship of the Leeds Philosophical and Literary Society, vacant by the

death of Mr. Denny. DR. FALCONER, of Bath, Professor Humphry, of Cambridge, and Professor Lister, of Edinburgh, have elected British corresponding members of the Harveian Society

of London. DR. SMART, of Tunbridge Wells, has been thrown from his horse, and lies in a very precarious state.

ABERDEEN UNIVERSITY .- It was resolved at the halfyearly meeting of the General Council of the University, held last week in the Hall, Marcschal College, to institute bursaries for students in the Medical Faculty of the University.

Collegiate Examinations .- At the recent examina-COLLEGIATE EXAMINATIONS.—At the recent examina-tion for the diploma of membership of the Royal College of Surgeons, six patients from different metropolitan Hos-pitals were introduced, upon whose respective cases the can-didates were examined, and required to state their treatment. The result was very satisfactory, as on the first night, out of twenty-four, there were only four rejected, and on out or twenty-tour, there were only four rejected, and on the second and last night two, making a total of six out of hirty-five candidates examined. Mr. F. B. Curling, F.R.S., the recently-elected examiner, in the vacancy occasioned by the resignation of Mr. Solly, took his seat as a member of the Court of Examiners. The following were the questions on Surgical Anatomy and the Principles and Practice of Surgery submitted to the candidates on the 14th inst :- 1. Pyæmia: its causes, symptoms, effects, and treatment. 2. Ligature of the posterior tibial artery in the lower third of the leg. Specify the extent, direction, and situation of your incision; the parts necessarily divided or to be avoided in the operation. Give the precise relations of the artery where tied. 3. Describe the various forms of inflammation which affect the conjunctiva, their symptoms, causes, and appropriate treatment. 4. Mention in order the several tendons around the knee-joint, and give the relations of each to adjacent parts. 5. Describe the symptoms, progress, and treatment of fracture of the spine in the cervical and in the dorsal regions, and state the causes of death in such 6. How may the production of "lymph" as the result of inflammation be accounted for? Describe its minute or innamination be accounted for? Describe its minute structure in its different forms, and the changes they may undergo. The following were the questions on the Principles and Practice of Medicine submitted to the candidates on the 15th inst.:-1. A robust man, 45 years of age, is suddenly seized with a violent pain in the abdomen, attended with sickness, shivering, and tendency to collapse. What may be the ness, survering, and tendency to collapse. What may be the causes of the attack, and how would you treat it? 2. What do you understand by the term croup? Describe the complaints included in it, and their treatment. 3. Enumerate the diurctic medicines contained in the British Pharmacopoia, mentioning their special uses and doses.

SANITARY STATE OF OXFORD .- Mr. Clarke's plans of main sewerage have been adopted by the Local Board, and submitted to the Secretary of State for his approval.

BARY-FARMING. - A baby-farming case, which has inst terminated fatally, has just occurred at Oakhill, Somerset. The victim is an infant three months old. At the inquest, Dr. Garland, the coroner, elicited that the child was taken by a variand, one coroner, sudiced that for clinic was taken by a quack doctor, immediately after birth, to a woman who has charge of three other children, and who has been paid 2s. 6d, per week for taking care of the child. Two days before death of the child the parish Doctor was sent for, who said that the child died of emaciation produced by want of proper food. The inquiry was adjourned.

HEALTH OF EASTBOURNE. - Some time since very erroneous reports as to the salubrity of the town were extensively circulated. We proved their incorrectness at the time. It is now worthy of record that during the months of January, February, and March, when the mortality throughout the kingdom is greater than in any other quarter, in East-bourne, containing between 10,000 and 11,000 inhabitants, there were only 18 deaths, or less than 7 per 1000 per annum. Such a fact requires no comment, and is a sufficient answer to all those who seek to disparage this favourite sea-side resort.

SMALL-POX provails to an alarming extent in Mexico, Tampico, and Colima.

THREE ships have arrived in the Thames, during the past ten days, with cases of sourvy on board. The Board of Trade have ordered official inquiries as to two of the vessels; the third belongs to Portugal.

A WOMAN in Waterford died on Monday from drinking twenty-six glasses of whisky. The liquor was stolen from a spirit store, and the man who gave it to the deceased is in custody, charged with being accessory to her death.

At the Lambeth Police-court on Saturday, there was another proscention for transmitting infected clothing without the necessary precantions having been taken, and a fine of 20s. was inflicted, with the alternative of fourteen days' imprison-

AT an inquest held on Monday on the body of the late At an inquest near on an arrival pulge Advocate-General, a verdiet of death from natural causes was returned. The deceased, who had suffered from heart disease for several years, died on his 45th birthday.

AT a meeting of the Lancashire Relief Fund, held on Art a meeting to the Familian lead on Saturilay, it was resolved to apply the balance unexpended to the crection of a Convalescent Hospital for the working classes in the cotton manufacturing districts. A sub-committee was appointed to arrange details, with the Earl of Derby as their chairman.

By the Indian mail which arrived on Monday, we learn that a serious riot was reported to have occurred in Assam, vaccination being the cause to which it was ascribed. It is supposed that the vaccinators must have pushed their opera-tions with undue pertinacity to have created so much excitement.

THE fifth annual report of the Museum and Lecture-rooms Syndicate, at Cambridge, has been issued. The Syndicate rooms cyndicate, at camoriage, has been issued. An Syndicate are satisfied with the progress that has been made during the past academical year. The number of students is on the increase. There is at pressul, they report, a great deficiency of suitable rooms for public demonstrations, and, in particular, there is no place where microscopical investigation of dis-

sections can be carried on.

THE Pontypridd Board of Guardians have increased the salaries of their Medical officers as follows :- Dr. H. N. Davies, of Lower Ystradyfodwg, from £7 10s, to £20 per annum; Mr. W Rhys, of Upper Ystradyfodwg, from £7 10s. to £20 per annum; Mr. Davis, of Mountain Ash, from £15 to £20 per annum; Mr. J. Leigh, of Llanfabon, from £13 to £20 per annum; and Mr. W. Morgan, Workhouse, from £20 per annum without medicine, to £40 per annum, including medicine.

WE are informed that memorials in favour of stopping the sale of intoxicating liquors during the whole of Sunday, in Ireland, have been adopted by over sixty corporations, including Dublin, Belfast, Limerick, Waterford, and Clonnel. eighty-four poor-law unions, and the boards of government of seventeen county and city gaols. Petitions have also been signed by over 1000 Irish magistrates, 31 bishops and deans, 67 county and city coroners, 57 chaplains of gaois and asylums, 13 chairmen of quarter-sessions, and 10 clerks of the Crown, all of which have been presented to the Chief Secretary for Ireland.

By the mail from Buenos Ayres, which arrived on Monday, we learn that on the 11th ult. the city had been again visited by a fearful epidemic, second only in its ravages to the cholera of 1867. The mortality was chiefly amongst the stations of the natives. The death-list from the beginning showed barely twenty English names, and although large numbers had been attacked, more than three-fourths recovered. During the six days ended March 11, the death-rate was over 100 daily. The Doctors and elergymen of all denominations were doing their duty fearlessly, and six of them had fallen victims to the epidemic. Disregard of proper sanitary arrangements is un-doubtedly the cause of these constantly-recurring epidemies, and it is hoped that city improvements, similar to those of Rio de Janeiro, will be carried out. From Monte Video we learn that, in consequence of the enforcement of a strict quarantine. there was no appearance of disease at that place.

THE "DREADNOUGHT" HOSPITAL SHIP.—The Metropolitan Asylums Board have obtained the loan of the Dreadnessht Hospital Ship, which is still moored off Deptford Creek, from the Lords of the Admiralty, and are about to fit her up as a convalescent establishment for small-pox patients drafted from Stockwell and Homerton. It is expected that the Dreadnought will be ready to receive patients in about a fortnight.

ECONOMIC REFORM BY THE POOR-LAW GUARDIANS OF YEOVIL .- The out-door paupers have been in the habit of receiving their weekly allowance at the Corn Exchange, to save them walking to the poor-house—a distance of a mile from the town. £5 rent for the Exchange will now be saved by compelling the old people to walk out regularly for their allow-ance. It is computed that each one will walk 104 miles a year, at a saving of 4d. per head.

WIMBLEDON-COMMON,-The Wimbledon Local Board recently petitioned the Home Secretary for powers to acquire compulsorily a portion of Wimbledon-common for establishing a sowage farm. The Home Secretary refused to grant their request, insemuch as the Legislature considers open spaces and commons should be preserved, as much as possible, for the benefit of the public.

HYDROPHOBIA IN WIGAN .- On February 14, Joseph Witter, residing in Adelaide-street, Wigan, 9 years of age, was bitten by a dog. As speedily as possible he was taken to the Dispensary, where the wound was cauterised. The wound healed, and the boy was apparently well up to Sunday last when symptoms of hydrophobia set in. He was taken to the Dispensary on Thursday week, and died on Monday morning.

Dispensity on American week, and dred on Monary morning.

A New Hospital, for Wiltshire.—Last week, the
Marchioness of Allesbury laid the foundation-stone of a new
Hospital, to be creeted in Savernake Forest, about a mile from Marlborough. A cottage Hospital was opened about five years ago near the site of the new building, the expenses being paid by the Marquis and Marchioness of Ailesbury, and the n ment proved so beneficial to the poor of the different parishes in the Marlborough district, that it was determined to build a permanent Hospital. The estimated cost is £3000, towards which about £2750 have been promised. The Marquis and Marchioness have contributed £1300, besides presenting the site.

Marchioness have contributed 21300, besides presenting the site.

CUSTORY OF TESTAMENTARY DOCUMENTS.—The will
of the late Sir John D. Harding, Q.C., D.C.L., formerly

Queen's Advocate, has been admitted to probate under peculiar Queen's Advocate, has been admitted to provide under position in the year 1863. Subsequently, the testator became insane, and threw the will into the fire. The testator's attendant rescued it when partially destroyed, and, with the aid of the draft, it was proved as the testator's will. This case has led to a suggestion that Medical men might be appointed as temporary official custodians of wills of, at least, lanatic patients. At all events, they might be constituted commissioners under the Probate Court for the duo registration and custody of wills throughout the country, as frequently a period of years clapses between the date of the testament and the testator's disease, and, perhaps, no clue remains of the whereabouts of the will or its probable custody.

SEWAGE IRRIGATION AT ABERDEEN .- A most successful experiment in sewage irrigation was carried out last season at Aberdeen. The land experimented upon was rather over eleven acres. The crops sold well, and the yield will be fully £20 per acre, as compared with, perhaps, £7 per acre from the same land under ordinary cultivation. These results were attained under disadvantages—from prejudice against were natured unter insativantages—rrow prejudice against the use of grass produced from sewage, from an unfavourable spring, and from late sowing, owing to delay in preparing the ground for irrigation. This confirms the evidence already obtained as to the success of sewage irrigation, and it should be added that the process is attended with no bad effect to the

neighbourhood, in a sanitary point of view.
EXTRAORDINARY DISCLOSURES.—The Coroner for East

Surrey concluded, on Monday, an inquiry respecting the death of Jessie Jane Beer, aged one year and two months, the danghter of Mr. Beer, who resides at Newington Butts. The inquiry created considerable interest from the fact that a servant, named Norman, aged 16, had had charge of the deceased, and that when previously engaged in several gentlemen's families, no fewer than four children in her charge had died mysteriously. It appeared that, on the 7th inst., Mr. Beer and his wife left home about that, on the o'th inst., Mr. Beer and his write left, bone about half-past three to dine with sem friends, leaving Norman in charge of the house, and returned about midnight. On enter-ing, he heard violent sereams, and going upstairs, found one of the children lying on the floor undressed. The haby was discovered between the bedstead and the wall, quite dead, but when he left home it was in perfect health. Dr. Lees, 112, Walworth-road, said he had made a post-mortem examination of the body, which was that of a line healthy child. The fuce appeared to be very red, and on the lips he found two compressed marks. He was of opinion that the child had died from suffocation. Mr. Mullard, detectivesergeant, said he had made inquiries relative to the girl

Norman, and he found that several children had expired jury returned a verdict—"That the deceased died from suffo-cation accidentally caused." The father said he was dissatisfied with the verdict, and would take other proceedings.

HEALTH OF SCOTLAND .- 2763 deaths were registered in the eight principal towns during the month of March, of whom 1368 were males and 1395 females. After allowing for increase of population, this number is 19 above the March average for the last ten years. A comparison of the deaths recorded in the eight principal towns shows that, during March, the annual agair principal towns snows that, during march, he annoan rate of mortality was 21 per thousand persons in Perth, 23 in Leith, 28 in Edinburgh, 31 in Paialey, 32 in Dundee and in Aberdeen, 38 in Glasgow, and 47 in Greenock. Of the 2763 deaths registered, 1253, or 46 per cent., were of persons under deaths registered, 1253, or 45 per cent., were of persons under 5 years of age. In Perth, 29 per cent. of the persons who died were under 5 years of age; in Abrevian 34; in Edinburgh, 36; in Grenock, 44; in Dundoc, 45; in In Paisley, 47; and in Glasgow 50 per cent. The rymotic (per contagious) class of diseases proved fatal to 51 persons in ceight towns, and constituted 20-6 per cent. of the total mortality. The rate of mortality from this class of diseases was nearly uniform in all the towns, with the exception of Perth, where it was only 12-5 per cent. of the mortality. The was slightly exceeded in Dundee and in Paisley, from the prevailed to the contagion of the person of the contagion of the person of t lence, in the former, of whooping cough, and in the latter, of fever. Fever was the most fatal of the epidemics, having sever. rever was the most fatal of the epidemics, having caused 160 deaths, or 5.7 per cent. of the mortality. In Glas-gow 6.0 per cent., in Greenock 8.2 per cent., and in Paisley 9.1 per cent. of the death were caused by fever. Of the 8.6 deaths from fever in Glasgow, 35 were attributed to relapsing fever. Of the 160 fever deaths in the eight towns, 68 were tabulated as typhus, 40 as enteric, 41 as relapsing, 2 as simple continued, and 9 as infantile remittent fever.

"WE give it as a fact," says the Court Journal, "that a lady, who, with her lord and master, had advanced in social position considerably from former times, expressly stipulated position consideraby from former times, expressly supulated with her Doctor that she was to be vaccinated from the lymph taken from a titled person. She mentioned a neigh-bour, a countess, to whose lymph she said she would give the preference.

NOTES, QUERIES, AND REPLIES.

Be that questioneth much shall leurn much .- Bacon.

Dr. Burdon-Sanderson's lecture "On the Arterial Movements" will appear next week.

·C.—Bismuth may be given in much larger doses.

A. C.—The subject shall receive attention.

Candidate.—The Gazette of Tuesday last states that no examination will be held for appointment to the Indian Medical Service in August, 1871.

E. B. P.-If the Medical attendant declines consultation, and declines to give up the case, you would not violate etiquette by seeing the patient, rescribing for him, and giving your opinion to his friends. Private

feuds should not interfere with Professional duties 31. Paneras.—It is quite true that the St. Paneras Board of Guardians have appointed Mr. Claremont sole vaccinator of the parish, which will be divided into four districts. Mr. Claremont has been for some years one of the parochial Surgeons, and is an active and energetic officer. We understand that he and his deputy will carry out the regulations propounded by the Privy Council effectively. One of our contemporaries made a sad blunder last week in stating that the office of public vacci-nator had been established by the Board of Guardians with the view of getting rid of one of their Medical officers who had been obnoxious to them. The fact is that the gentleman to whom reference is made was not a candidate for the office of vaccinator, and, as far as we understand, was not solicited by anyone to become so.

Inquirer asks-

January and the case of a Medical officer holding a Poor-law appointment for some prass, such Medical officer not being resident in his resident in the president in the formal problem of the provident in the detail. The quantum comes to reside in the district. The quantum comes to reside in the district of the appointment, is it computery on the guardiants to elech him to the district on the secure of his being resident, in preference to the Medical Computer of the property of the president of the present of the medical present of the prese

. The usual course is that prescribed by the Regulations of the Poor-law Board, which-in force until September 29 last in unions only-are now uniform throughout the country—viz., to appoint, whenever practicable, a fully qualified and resident Medical man as Medical officer. But it can hardly be said to be compulsory on the guardians to make such an appoint-

ment, since there is no available machinery to compel them to a compliance with the regulations. If they continue to employ the non-resident officer, and furnish the Poor-law Board with a copy of a special minute actting forth their reasons, the employment (in the absence of protest from the newcomer to whom you refer) would probably be consented to for another year. But we have known cases in which, in spite of such protest, and by reason of the pertinacity with which the guardians have stuck to the actual tenant of the office, the continued employment of the non-resident officer has, notwithstanding the regulations, been permitted annually for very many years. Prescriptions against Cholera Morbus and Cancer .- We have received the

following announcement in Italian and French, in parallel columns. We give the Italian, with an English translation, as a contribution to the Medical curiosities of the day :-

"L'annunzio seguente è stato affisso nella Esposizione Marittima di

"Contro il colora—livi Rilando, il St. ...
"Ganaga, il St. ...
"Contro il colora—livi Rilando consultata di Contro il contro—libi il si consultata di Contro il contro—libi il si consultata di Contro il contro—libi il si consultata di Contro il consultata di Contro di Co

[Translation.]
"The following notice has been put up in the Maritime Exhibition at

are his cases?

"Against the choire, challain for (£400),
"Against cancer, 19(0,00) Ellisa for (£400),
"Against cancer, 19(0,00) Ellisa for (£400),
"Every manth during 18ft the price will be raised 19(0,00) fore,
"Every manth during 18ft the price will be raised 19(0,00) fore,
"Everything has been done to bring these remedies into use, but in value."
"Everything has been done to bring these remedies into use, but in value."
"Address Guide Lander womand 150,
"Dotter Paolo Biracca."

Does Dr. Paul Bracea think it just and humanitarian that the inventor should lock these precious secrets in his own breast? and how did this ingenious personage come to know that his remedies are valid? Where

THE CROYDON SEWACE PARMS.

TO THE EDITOR OF THE MEDICAL TIMES AND DAZETTE.

TO THE EDTOG OF THE MEDICAL THES AND DAISTIES AND DAISTIES FOR THE PROPERTY IN THE PROPERTY IN

. We are quite familiar with the facts contained in our respected correspondent's letter; the omission of the one word "new" has caused the misapprehension.

Hooping-coron,

Hospita-coron.

To The Editors of the Middle Third AFF OLETTI.

Sia_After the long, cold, dreary winter each succeeding appears more lorely; the simple snowders, the bright exceeding appears more lorely; the simple snowders, the bright exceeding appears of the brids, all combine forces, the recent inject hedges, and the once of the brids, all combine feerpoundly is over-tipped hedges, and the once anxieties, even of Melical men. But to us the seconds in more suggestive of the side of the side

Mean High Low Mean Gene

with the belladonna, using the extract not the tineture, and constantly, carefully increasing the doses; afterwards cod-liver oil, chemical food, and change of air.

and change of air.

In every case of househose the retired Physician haste no said; it is put the case infallible prescription containing crosm of tartar and cochineal and Robrie semicocation. Amongst the poor, rubbing the sole of the case infallible prescription containing crosm of tartar and cochineal and Robrie semicocation. Amongst the poor, rubbing the soles of the feet with gathle is very popular.

In an, 4c.

R. A. Barracke, Woolvich, April 10c., M.D., Reyal Horse Artillery.

COMMUNICATIONS have been received from-

BOOKS RECEIVED-

BUOKO REGIAL ILI-Report of the Olingow Royal Infirmary—Report on Barracks and Hospitals, Report of the Olingow Royal Infirmary—Report on Barracks and Hospitals, ton—William Logan on the Great Social Krill—Cameron, J. F. Stuart Macdowall on New Mebhod of Treating Womals (Graby's System), Macdowall on New Mebhod of Treating Womals (Graby's System), Siguire on Anosthetics—Dr. Taylor (New York) on Dactylyis Syphi-likon—Report of the Surry County Asylum.

PERIODICALS AND NEWSPAPERS RECEIVED-

The Scotsman-New York Medical Gazette-Pharmaceutical Journal-Chemist and Druggist-The Brighton Examiner-Medical Press and Circular.

APPOINTMENTS FOR THE WEEK.

April 22. Saturday (this day).

Operations at St. Bartholomew's, 13 p.m.; St. Thomas's, 93 a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 93 a.m.; Royal London Ophthalmic, 11 a.m. GRESSAN COLLEGE, 7 p.m. E. Symes Thompson, M.D., F.R.C.P.— Lecture II. "On the Organs of Respiration."

ROYAL INSTITUTION, 8 p.m. Mr. Lockyer, "Astronomy."

24. Monday.

Operations at the Metropolitan Pres Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Peter's Hospital for Stone, 2 p.m.; ps. Peter's Hospital for Stone, 2 p.m.; ps. Peter's Hospital for Stone, 2 p.m.; ps. Peter's Hospital for Stone, Cheman College, 7 p.m. E. Symes Thompson, M.D., F.R.C.P.—Lecture III. "On the Organs of Circulation."

Lecture III. "On the Organs of Circulation."
MEROCAL SOCIETY or Lorson, 8 p.m. Dr. Douglas Powell, "On some
Cases of Obstructive Mitral Disease." Mr. C. F. Maunder will show
Patients having good use of Tricepa Muscle after Excision of the Elbor ;
Cause demonstrated by a Dissection. Mr. W. Adams, "On Subcutaneous
Section of the Neek of the Femur."

25. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopsedic, Great Portland-street, 2 p.m.; Royal Pree, 2 p.m.; Royal London Ophthalmic, 11 a.m.

ETHEOLOGICAL SOCIETY, S p.m. Meeting.
ROYAL INSTITUTION, 3 p.m. William Pengelly, F.R.S., F.G.S., "On the
Geology of Devonship, especially of the New Red Sandstone System." ROYAL MEDICAL AND CHIECEROICAL SOCIETY, 84 p.m. Mr. Jonathan Hutchinson, "On a Series of Cases in which Chancres have been caused by Vaccination." Dr. Elam, "On Partial Acute Idiopathic Cerebritis."

26. Wednesday.

Operations at University College Hospital, 2 p.m.; St. Mary's, 1‡ p.m.; Middlesex, 1 p.m.; London, 2 p.m.; St. Bartholomew's, 1‡ p.m.; Great Northern, 2 p.m.; St. Thomas's, 1‡ p.m.; Samartan, 2.30 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmic,

HUYTERIAN SOCIETY, 8 p.m. Meeting.

SOCIETY OF ARTS, Sp.m. Meeting.

27. Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmie, 1 p.m.; Royal Orthopsedie, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m.

ROYAL INSTITUTION, S p.m. Prof. Tyndall, LL.D., F.R.S., "On Sound."

28. Friday.

Operations at Westerinster Ophthalmic, 14 p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m.; South London Ophthalmic, 2 p.m.

Upusalmie, 2 p.m. Dr. Greenhow, "On Diphtherial Paralysis treated by Galvanion," Dr. Gudl, "On a Case of Accumulation of Hair in the Stonach". Dr. Henry Thompson, "On a Case of Abschweise Visited From the Stonach". Dr. Henry Thompson, "On a Case of Distocts treated The Opisium." Mr. Cooper Foster, "Dr. Gudle, a Case of The Stonach S

VITAL STATISTICS OF LONDON. Week ending Saturday, April 15, 1870.

BIRTHS.

Births of Boys, 1225; Girls, 1189; Total, 2414. Average of 10 corresponding weeks, 1860-69, 2063.7. DEATHS.

	Males.	Females.	Total.
Deaths during the week	896	RHS	1722
Average of the ten years 1860-69	738-7	700'8	1439°5 1584
Deaths of people above 90		***	***

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1861.	Small-pox.	Measles.	Searlet Fever.	Diphtheria	Whooping-	Typhus.	Enterie (or Typhoid) Fever.	Simple continued Fever.	Diarrhosa,
West	***	458125	22		5		11		8	2	1
North	***	618210	116	1	12	3	22	8	5		2
Central	***	383321	7		4	1.	6	***	1	1 1	1
East	***	571158		8	- 5	1	18	1	2	. 3	
South	***	773175	80	2	14	100	9	2	3	3	3
Total		2903969	265	6	* 40	. 4	66	8	14	9	6

M.E.								
From Observations	at	the	Gree	mei	ch O	been	rato	ry.
n height of barometer								29 706 In.
n temperature								48'3"
hest point of thermometer								66.2°
est point of thermometer .								30.0,
n dew-point temperature								42.5
eral direction of wind .								Variable.
ole amount of rain in the w	nee	k .		-				0:33 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, April 15, 1870, in the following large Towns:—

5.

wolfen. Temp.

	year 1871.	Acre.	duri	duri	of A	ir (F	ahr.)	of Air (Cent.)	Fi	11.
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 1871	Persons to an A (1871.)	Births Registered the week ending	Deaths Registered the week ending A	Highest during the Week.	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3259469	41'8	2414	1722	66.9	30.0	48.3	9-05	0.36	0.91
Portsmouth	125464	13.2	77				48.8	9:33	0.93	1.35
Norwich	81787	10-9	63	42	64'0	27.5	44'5	6-95	0.44	1.13
Bristol	173364	37.0	123	81	I I			***		***
Wolverhampton	74438	22.0	39	35		29.1			0.77	1.96
Birmingham	878574	48.3	229	182	63.8	29.0	45'8		0.24	
Leicester	101367	81.7	76	84	62.0	26.5	46'7		0.23	
Nottingham	90480	45'3	59	40	66.6	27.1	47:3	8:50	0.98	
Liverpool	529225	103-0	396	387	62-0	33'4	47.8			178
Manchester	379140	84.0	248	206	62 0	31.0	47'2		0.82	
Salford	123951	23:9	9.5	66	90.3	30.8	46'3		0.97	2.46
Bradford	149030	22.5	81	85	60-8	30.8	46'1		0.44	1.15
Leeds	266109	12.3	120	124	60.0	28:0	45 1			1'24
Sheffield	255947	11.9	202	133	63.0	27.2	44'5		0.68	
Hull	135195	38:0	83	49	63.0	21.0	42-2	5:67	0.10	0.25
Sunderland	103037	31.3	64	69	1 1		1	***	1	***
Newcastle-on-Tyne	136293	25.5	118	98		81.0	44:6			1:47
Edinburgh	179944	40.8	141		58.7	30.0	45'0	7.22	1.80	4.57
Glasgow	477627	94.3	415	373	[!		***	***	***
Dublin (City, etc.+)	322321	33 1	1192	1175			***	***		***
Total of 20 Towns in United Kingd'm		_	_	-	-	-	46:1	7:83	0.65	-

an United Aingor in Tollowide. Set 9,500,000,000 to 10 to 11 Tollowide Debet Act the Bornd Observatory, Greenwick, the mean reading of the barometer and the lowest was 20 Hz. on Sakutuday at soon.

Note:—The population of Cities and Bornophy in 1870 is estimated on the assumption that the increase since 1891 has been at the same annual content of the second of the

• The actual numbers (narevised) of the population of these cities and borough, as enumerated on the soft inst, will probably be available before the middle of the year, and will then be substituted for these estimates. I Industrie of some suburbs. In not having come to hand, averages of the births and deaths in that city in the six previous wasks have been used in order to make totals for the twenty towns.

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ASSURANCE FUND, eafely invested ANNUAL INCOME, steadily increasing £230,355 Minth Bonus will be declared in January, 1872, and all With-Profit Policies in existence on the 20th June, 1871, will participate, so that ms who complete such Assurances before June 30th next will share in that Division, although one Premium Dorsons

been paid. Forms of Proposal, and every information, can be obtained of GEORGE CUTCLIFFE, Actuary and Secretary.

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ORIGINAL LECTURES.

LECTURES DELIVERED

TH THE

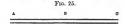
PHYSIOLOGICAL LABORATORY OF UNIVERSITY COLLEGE.

By J. BURDON-SANDERSON, M.D., F.R.S., F.R.C.P., Professor of Practical Physiology.

LUCTURE VI .- ON THE ARTERIAL MOVEMENTS (Continued). THERE is a sensible difference in time between the beat of the carotid artery and that of the radial. Anyone can satisfy himself of the fact by feeling his own carotid with the left thumb and forefinger while he feels the left radial with the other hand. The precise measurement of the interval is a piece of work which has not yet been accomplished. But for purposes of illustration, we can do it accurately enough with the apparatus which I now show you. It consists of two horizontal levers, which are supported on the same pillar, and work in the same vertical plane.

much too small to measure accurately. If I wished to deter-mine the time-interval exactly, I should shift the cylinder to another axis of the clockwork, which revolves at a rate five times as great as that to which it is now fitted. I should then have a tenth of a second expressed by a horizontal movement of an eight of an inch.

The reason why time is lost in the transmission of the expansion from centre to periphery, is that the arteries are clastic. Let us suppose a tube, a, p, c (Fig. 25), to represent



the arterial system—a the proximal end, c the distal. At the instant that blood bursts suddenly out of the contracting heart into a, it yields to the pressure against its internal surface and expands. In this expansion great part of the sensible motion of the blood momentarily disappears, and consequently, so long as the expansion lasts, produces comparatively very little effect in distending a; but immediately that A becomes tense, the in distenting of the minimum of the contractions of the contraction of the contraction of the contracting heart is stated to the motion which the contracting heart is storaged communicating. And, in ansumch as a deals with the accountlated effect which it receives from a in exactly the same way as a dealt with that which it received from the heart, cis as far behind s in attaining its maximum of distension as s was



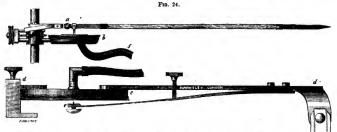


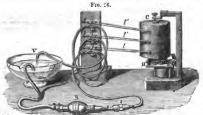
Fig. 28. Apparatus for recording the arterial merements for long periods. a, b, recording tympanum and writing-lever, c, d, c, subgrammonic tympanum c, of non-fixed bulbs, by which the two tympana are commercied. The point of the lever is bent horizontally so as to write on the blackwood surface of a cylinder recording once in a minute or five times in a minute, according to adjustment. The benth of the joint (c) on which the which it reads on the tympanum, and consequently the execution of the point of the writing-lever, can be increased or them.

Close to its bearings (a), each lever rests by a vertical bar on the upper surface of an aluminium plate, which adheres to the vulcanite membrane with which the tympanum (b) is covered. The cavity of each of the tympana, to which the levers are attached, communicates by a vulcanite tube with that of another tympanum of similar construction, but larger size (one of these tympana is shown at c; the other is not included in the drawing). This last, which we may call the sphygmoscopic tympanum, is fitted to a frame of brass (d), something like the frame of the ordinary sphygmograph, but of simpler construction. This frame carries a spring (c) of the same kind as that of the sphygmograph, which presses on the radial artery, and is fixed in such a position that its movements are communicated to the tympanum, and thereby to its fellow, and to the writing-lever with which it is connected. In this way the radial pulse is written on the cylinder by the upper lever. The carotic pulse is written on the symmetry to be upper lever. The carotic pulse is received by a second sphygmoscopic tympanum, which transmits it to the lower lever in exactly the same namer; consequently, as both the levers are of the same length, and their writing ends in the same vertical line, the two expansions, it is simultaneous, would be recorded one directly above the other. But as the radial expansion actually happens about a tenth of a second after the carotid, the tracing which corresponds to it is as far behind-i. c., to the the other-as the paper progresses in the tenth of a second. As the recorder is at present arranged, one-tenth of a second corresponds to one-fortieth of an inch; a distance Vol. 1. 1871. No. 1087.

behind a. This being the case, it is easy to see that the loss of time between a and c, or between aorta and radial, depends on the yieldingness (extensibility) of the tube by which the two points are connected. If the tube is absolutely rigid, there is no postponement; if, though elastic, it is tense at the moment that it receives the discharge, there is scarcely any; whereas that condition of the tube is most favourable to postponement in which it is longest in attaining its maximum of distension. or in which the time taken by any part of it to expand to the uttermost is longest.

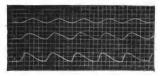
All this may be illustrated very easily with the simple schema which is described in the last edition of Dr. Carpenter's "Physiology." In that schema the heart is represented by an "Physiology. e bag of such size that it can be squeezed with one hand. This bag communicates at one end with a long elastic tube representing the arterial system, at the other with a vessel containing water, the apertures being furnished with valves which open in directions corresponding to those of the heart. If three levers, like those we have just been using, are so arranged as to receive the successive expansion-waves proby repeatedly squeezing the bag at different distances from their origin, the three tracings are obtained which I have represented on the board (Fig. 27). It is instructive to observe that these tracings have no resemblance to those of the arterial pulse. The reason is, that the contracting hand is entirely unlike the contracting heart. The real heart, like the schematic heart we used at last lecture, contracts suddenly,

exerting its greatest vigour at the commencement. The hand contracts gradually, and is, moreover, incomparably weaker, as compared with the resistance to be overcome, than the heart. Hence the expansion of the tube is slow, lasts a long time, and



10. 98.—Apparatus for showing the loss of time in the transmission of the expansion produced at one end of an elastic tube by squeezing an elastic bag with which it com-





· F10. 27.-Tracing produced by the apparatus, Fig. 26.

is followed by no rebound. This very slowness of the process enables one to see the steps of it better. In the distal part of the tube, to which the upper tracing corresponds, the expansion culminates later than in the proximal part, because the motion communicated to its contents by the grip of the hand at the outset, does not begin to tell on the former (distal) until at the outset, does not begin to ten on the former (unsay unsate the latter is fully expanded. So much the tracings show plainly enough. It must, however, be remembered that the action of a schema of this kind differs so widely from that of the heart itself, that it can only be used as an illustration;

the heart itself, that it can only be used as an illustration; the natural moreoments are not imitated or reproduced by it. it has been been as the control of the control of the control of the transmission of an extending reference in the control of the transmission of an extending reference in the control of the serial sold the control of the serial pendent on more complicated conditions. There are two reasons for its being so variable. The first is that a certain loss of time is incurred in the heart itself; for, as we shall see in the next lecture, an inconsiderable fraction of a second is required after the heart has begun to contract, for the aortic valve to be forced open. The second reason is that the arteria: since a refer to the wrist has not always the same significance. The second reason is that the arterial shock which is arterial expansion being, as we have seen, not one event, but a series of events, what is felt is sometimes the first, sometimes the second member in the series, according as the one or the other is most prominent. As a rule, the sensibility of the finger is most affected at the moment that the artery attains its arme of ten-sion (e.g., in the pulse shown in Fig. 28, at the moment corresponding to highest point in the tracing), but in a number of

F10. 28.

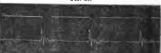


individuals the same cause, which, as I pointed out in my last lecture, gives rise to the sudden jerking up of the lever, communicates so smart a sensation of shock or vibration to the finger, that the real pulse which follows it (i.e., the maximum of arterial tension) is either not perceived, or not

perceived without the closest attention.

The nature of this vibration-effect is both illustrated and explained by the experiment I am about to make with the schema (Fig. 19). If you take an clastic tube, distended with water, and closed at both ends, and give it a smart rap with a hammer at one end, an effect is transmitted along the tube, which, although of an entirely different nature to that which constitutes the pulse, yet mixes itself up with it under certain conditions. This effect is called, from its mode of origin, a percussion-wave. To produce it, I close the communication between the schematic heart and artery, and arrange the lever schematic neart and artery, and arrange the lever (Fig. 19) in such a manner that, by striking on it with a hammer (at b), I may produce the required percussion. I arrange the tube under the spring of the sphygmograph (at o), in such a position that the length of tubing between the point of percussion (s) and the spring (o) is equal to two metres. I then produce a succession of percussion-waves, and obtain a tracing similar to those I hand round, in which the interruptions in the upper line indicate the moment of percussion, the vertical ascents in the lower

F10. 29.



line the effects. (In the figure, the interval of time between cause and effect corresponds to the portion of the horizontal line which lies between the short vertical scratch and the com-

mencement of the ascent in the lower tracing.)

The rate of transmission can be determined by comparative measurements of the two tracings. I have found, from a number of observations made several years ago, that it is about ninety feet per second. The nature of the movement is really expressed by the word I have applied to it—vibration—i.e., the particles of liquid in the tube are thrown into a state of back-and-forward movement, which movement is propagated centripetally although there is (the tube being closed at both ends) no progression of the liquid itself.

That the bursting open of the aortic valve produces a similar vibratory movement of the blood, that this is transmitted instantaneously (i.e., in about a fiftieth of a second) to the peripheral arteries, and is, under certain circumstances, felt, I think there can be no question. It completely explains the fact that in certain persons there is no sensible postponement of the arterial expansion whatever, the whole interval between the heart-beat and the radial pulse being accounted for by the

aortic valve delay already referred to.

Now that we understand the nature and cause of the postonement of the pulse, the explanation of the mode of production of the second expansion is comparatively easy. Let us take the simplest case—that of the radial or other artery not far from the periphery. As regards the arteries of ultimate distribution, there are two facts to be borne in mind—first, that these arteries, as they become smaller, become more distensible; and secondly, that in the capillaries themselves a resistance to and secondry, that in the capillaries themselves a resistance of the passage of blood is much greater than any which has been encountered in the arteries. Just as the expansion of the aorta determines that of the radial, the radial expansion determines, and is followed by, that of the peripheral arterioles. Hence, at a certain moment, the radial is subsiding while the arterioles at a certain moment, the radial is substaing while the arterior-are still swelling; so that, when at their acme of distension, the pressure is greater at the periphery than in the radial itself. The other fact is that the resistance to the flow of blood is very much greater at the capillaries than at any part of the arterial circulation. Immediately behind this resistance, pressure increases, and goes on increasing so long as blood enters the arterioles from behind more rapidly than it is discharged

The effect of this state of things is not difficult to understand. The circulation is closed behind by the aortic valve. and virtually closed in front by the engillary resistance. In the largest Artieries the expansion is obling, in the smallest it is culminating; so that, for an instant, the pressure is greater in the latter than in the former. There is two tone effect possible. The restoration of equilibrium must take place by increase of pressure towards the bearst and diministion towards the periphery. This restoration of equilibrium constitutes the second beat. It may manifest itself in very different degrees,

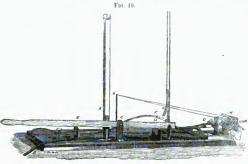


Fig. 19.—Dr. Sanderson's selectin for demonstrating the nature of the arterial movements. As glass tube with it represents the heart, a, the two by which a communicate with a cistern at a helpit of two or twelve may be a supported by the contract of the

according to the yieldingness of the arteries. When, as in bealth, the arteries are tens, it is seen merely in a slight arrest or interruption of the arterial collapse, a break in the descending limb of the tracing. In fever, when the atteries descendtively much more distensible, the econd expansion is separated by an distinct an interval of reluxation from the first, that pulse feels double to the finger. It will probably facilitate the comprehension of the explanation I have given if I sum up the synchronous conditions of central, peripheral, and intermediate arteries thus:—

Carotid. Radial. Peripheral arterioles. Fully expanded . Expanding . Collapsed Contracting . Expanded Expanding Again expanding. Contracting . Expanding Stationary . Again expanding. Slowly contracting Contracting . . Contracting . Contracting

Hence, as sphygmographic tracings show to be the case, the second expansion in the great arteries lasts longer than in the smaller ones; for, although it commences the sooner the nearer the heart, the subsidence is simultaneous throughout the whole arterial system.

Before I finally leave the subject of the pulse, it will be well to place before you some practical rules for your guidance in applying the sphygmograph.

Rules for Sphygmographic Observation.

 The forearm should be supported on a table or other similar surface, with the back of the wrist reposing on a firm, well-padded cushion, of such a height that the dorsal surface of the hand makes an angle of from 20° to 30° with that of the forearm.

.2. The sphygmograph must be placed on the wrist in a direction parallel with that of the radius, in such a position that the block rests upon the trapezium and scaphold, and the extremity of the spring is opposite the styloid process of the radius.

3. In beginning an observation, adjust the instrument so

that the pressure exerted by the spring is sufficient to flatten the artery against the radius; then weaken the spring until the effects of over-compression disappear—i.e., until you find that the lever continues to descend until the end of diastols. Note the pressure at which this result is attained, as well as that which is required to flatten the artery, and take tracings at each of the two pressures.

 In every observation direct your attention to two questions as involving the whole of the information which the sphygmograph is able to give, viz.;—

a. The absolute arterial resistance—i.e., the quantity of work the heart has to do in each contraction; and

b. The relative arterial resistance—i.e., the relation between the quantity of blood discharged into the acrta in a given time, and the facility with which blood oscapes from the arterial system.

by the capillaries. The absolute resistance is learnt by following out Rule 3. relative resistance is judged of by observing the time occupied in the acts of expansion and contraction, as indicated by the obliquity of the ascending and descending limb of the tracing, quick expansion being asso-ciated, by the identity of the conditions which produce it, with quick contraction and vice be observed (as before explained) independently of the initial jerk of the lever. That of contraction may be estimated from the descent which precedes the second beat, but more especially from that part of the tracing which expresses the final collapse -- the period during which the arterial system, no longer affected by the heart, is discharging its con-

tents along the capillaries by virtue of the elastic contraction of its walls.

(To be continued.)

ORIGINAL COMMUNICATIONS.

TRAUMATIC ANEURISM FROM GUNSHOT WOUND.

By J. FAYRER, M.D., C.S.I., F.R.S.E.,
Professor of Surgery, and Senior Surgeon Medical College Hospital,
Calcutta.

Ox the morning of October 20, 1870, assisted by Professors Partridge and Ewart, I operated on a case of traumatic aneunism in the right leg of Mr. A. C., aged 17 years, who had recently arrived from Australia.

He gives the following account of his case:—On December 25, 1869, he accidentally shot himself in the log with both barrells of a gun loaded with No. 6 shot. The muzzle of the gun, which foll from his shoulder, was close to the limb when it exploded. He does not give a very clear account of the extent of the injury, but it appears that both charges entered the limb. The ubinalis antiens and long extensors were much injured, and from the account of the contract of the contra

extended deeply, that the shot must have nearly, if not quite, traversed the limb. He says that the leg was bandaged on the 25th. He was taken home, and the bandages removed on the following day. Wet linen was kept constantly applied for ten days. Inflammation then came on, and linseed poultices were applied on the front and back of the leg. Three weeks later applied on the front and back of the leg. Three weeks later "the wound was raised, the skin at the back of the leg broke, and great numbers of shot came out." There was little pain, except occasionally, at that part; no shot came out of the nd in front, which was about the size of the palm of the hand. "A month's poulticing cleaned the wound, and, in two weeks after, the flesh began to grow and fill the space in the wound until level with the surface; but the space in the woma unit level with the surrace, out the edges would not heal. A stimulating ointment was tried, but the part seemed dead. At the place where it has now opened, there still remained a small aperture right through the leg, through which a probe could be passed without my feeling it. Gradually this grew smaller, and the back of the leg closed it. Gradually this grew smaller, and the back of the regression.

The stimulating ointment was pushed into the hole with a bit of lint; then it healed np rapidly until it got level with the same dead appearance. The a bit of int; then it heared up rapidly until it got level with the other, and then took the same dead appearance. The Doctor then applied bluestone, and in two or three days there was a great difference in the size of the wound. The shape of the wound had been nearly oval, now it had irregular edges The Doctor continued using the bluestone until it healed, and are Doctor commined using the buestone until it heated, and we then thought all trouble was over. But in a week it began to swell np again, and was very painful. The wound rose to the size of an egg. In four days after the swelling began, it burst.

The wound was full of bad blood—black, but free from matter. When that was gone, another came in its place, not so large as the first, but the pulsation quite as high as it is Lately it has given me no pain at all. Sometimes the wound was dead-looking again, the same as before. These are all the changes I can remember.

I saw him on October 19, and received from his friends the following account :- He was on the point of leaving Calcutta by rail. He had been on his legs a good deal that day; in the afternoon, he complained of pain and throbbing in the leg, and it suddenly burst out bleeding, and a large quantity of blood appears to have been lost. The hemorrhage was arrested by presappears to have been lost. The hemorrhage was arrested by pres-sure, ice, and a bandage, and did not return during the night. He is a tolerably healthy-looking young man of 17, rather pallid from the loss of blood, but otherwise well and in good spirits; no fever, no pain. On remering the new term that in the parties in of ever, no pain. On remering the new term that in the clear trip of the clear trip and aperture, with very thin margins. This was filled by a protuning cito to dark blood. The temperature of the limb was apparently natural, and there was not much swelling except about the wound, where the limb seemed, distended. The posterior tibial artery was beating naturally; the anterior tibial could not be felt. I carefully removed the clot. and passed my finger into a deep cavity among the muscles of the leg between the tibia and fibula. There seemed to be a quantity of blood-clot and broken-down tissue, and much bone thrown out between the tibia and fibula. I became conscious of a ous co-ween the tions and fibulis. I became conscious of a firm and distinct palasition all around my finger, and on the world of the control of the control of the would. On the would, the would, the would of the world of the

In consultation with Dr. Partridge, we determined that it was a diffused or traumatic ancurism of the auterior tibial, and it was decided to attempt to ligature the artery.

On the morning of the 20th he was placed under chloroform by Dr. Ewart, Dr. Partridge commanding the femoral artery. I made a vertical incision, about four and a half inches in length, in the line of the anterior tibial, the wound occupying the centre of the incision. I found the tissues completely altered in character, brawny, and consolidated; the integument and muscles were matted together above and below ment and missions were instead operator above and only the wound, which opened into a large cavity as big as a small egg. On deepening the incision below the wound there was a sudden and violent guab of arterial blood, which was immediately arrested by compressing the femoral. Dissecting down, I came on bony matter, and it was evident that the blood came from a recess in the bone, into which, when the finger was placed, the bleeding was commanded; at the same finger was placed, the bleeding was commanded; at the same time the point of the finger could be felt pressing through the soft tissues at the back of the leg. The wound was enlarged and a strong light thrown into it; it was carefully sponged and examined, but no trace of an artery could be found. The blood came entirely from below and in a jet, more like that from the subclavian than a small artery. I made many efforts to secure

the bleeding part, but it was so com, lettly involved in bone that it was impessible; plugging with link was therefore resorted to—the lint was forced into the bony cavity and the bleeding thereby completely arrested. After a short interval the lint was carefully removed from the upper and fleshy part of the cavity; the walls were quite dry and there was not a vestige of a bleeding point to be seen, though the upper end of the artery was again carefully sought for. On removing the lint from the deeper and bony part of the cavity, a repetition of the hemorrhage occurred, and it was again plugged. Notwithstanding the greatest care and the most perfect management of the femoral, the loss of blood was great; npwards of two pounds must have been lost. It was therefore not considered desirable to make further search; the wound being thoroughly plugged and the hemorrhage arrested, he was put to bed.

As the limb is well supplied by the posterior tibial, and as the bleeding orifices have now been completely exposed and

subjected to pressure against bone, it is to be hoped that cicatri-sation may close the opening altogether.

It is remarkable that the bleeding should have been so profuse from the lower end, though no doubt the bonycyst is the explanation of it, and that the upper end should have been so entirely tion of it, and that the upper end should have been so caurely obliterated. The tissues were completely altered in character—brawny, consolidated, and fibrous. Not a vestige of the anterior tibial artery or of the nerve could be found. In making the incision, the tissues were very vascular, and one or two considerable arterial branches had to be ligatured. He has lost the power of extension of the foot, the tibialis anticus and common extensor of the toes having been so much injured by the wound. 5 p.m .- Doing well; no bleeding; no fever; temperature of the leg natural, but it is painful from the pressure of the lint in the wound. Ordered chloral hydrate at bedtime. He is to be carefully watched. I have no doubt that the anterior tibial is the artery affected, though the upper part of the vessel seems to have been obliterated. The aneurismal so in its lower part has become parily surrounded by bose thrown out from the fibula, and thus an opening has been formed, through which the bleeding took place, and it is a marvel that the boy has escaped so long without bleeding to death. Had he started in the train before the hemorrhage

Came on the consequence might have been very serious.

October 21.—He is doing well; pain less; no bleeding; temperature of limb natural; no pulsation. Ordered chloral hydrate.

22nd .- Doing well. Ordered salines, as he was slightly verish. Is slightly nauscated.

23rd .- Doing well. Dressing changed daily; no bleeding;

leg below wound rather swollen; no pain.

November 2.—Since the last report he has been doing well; no fever after the first day or two; wound granulating healthily, gradually extruding the lint, and this morning the last piece came out. There is a deep granulating cavity; no harmorrhage. The wound is dressed with lint, and washed with a solution of carbolic acid and water. He cats and sleeps

with a solution of carbonic and and water. He cats and seeps well, and sits up, the leg resting on a chair. 3rd. — This afternoon he was sitting in an armchair, with the leg raised, when he suddenly felt the limb ache and become heavy; it then began to bleed through the dressing, become heavy; it then began to bleed through the dressing, and in a fow minntes he must, from the description, have lost about sixteen ounces of blood. The bleeding had been stopped by pressure when I arrived, he looked plad and frightened. I took off the dressings, plagged the deep part of the wound, and put him to bed; ordered him not to get up again.

4th.—No pain; he slept well.

6th.—The wound was dressed to-day; there has been no

return of hæmorrhage.

30th.—He has been doing very well since the last report; the wound is gradually closing and the granulations are closing in. The plugs have all been gradually pushed ont, and now he has only simple dressing with lint soaked in carbolic said lotion applied.

December 12.-

-The wound has now nearly closed, and contraction is aided by strips of adhesive plaster. His health remains excellent.

20th.—The wound has healed, and he begins to put his foot

to the ground.

to the ground.

Jannary 1.—He is now quite well. The wound is reduced
to a linear cicatrix. He walks well; but owing to the destruction of the muscles on the anterior surface of the leg, he is
unable to extend the foot. The limb is, however, useful, and in time he will probably be able to use it nearly as well as the

March 15.—I have heard of him lately; he has gone to another station. Is in good health, and has almost entirely

tion of an indigo planter. Calcutta.

PRINCIPLES OF THE ANTISEPTIC TREATMENT OF WOUNDS.

By ARTHUR ERNEST SANSOM, M.D. Loud., M.R.C.P.

It appears to me that much of the sceptisism with which many have received the enunciation of the theories upon which the antiseptic system in Surgery is based has arisen from a wrong antiseptic system in Surgery is based has arisen from a wrong conception of the relation between anypuration and putrefaction. Many who acknowledge that the results of the treatment have been very satisfactory refuse to believe in the theory of septie germs. The danger of this, however, is that they neglect the minute precautions which a belief in the theory enjoins; and thus both theory and practice become charged with errors not their own. The occurrence of charged with errors not their own. Inc occurrence of this scepticism is, however, very pardonable; for the relations of atmospheric germs to the evils, proximate and remote, of wounds, have not been always pointed out with lucidity, even by advocates of the theory and the practice. Those who see the antiseptic method in operation as under the careful management of Professor Lister, who witness the undoubted fact that large wounds can heal without the production of a drop of pus, may yet fail to understand by what faculty the antiseptic agent exerts the power of preventing pus-formation. Being told that it is a potent destroyer of germs, they inquire— "How do these germs induce suppuration, and what Is their relation to the product, pus? Am I to believe that the rudiments of pus cells are floating in the air, and that these, finding a suitable soil in the living animat body, acvenge ampropagate as pus cells?" This view was held by Lonnire. He compared pus cells to yeast cells, and attributed to them an analogous function and an identical origin. (a) It must be a compared to the compared to finding a suitable soil in the living animal body, develope and seen that such a view cannot be maintained, abundant facts to show that pus can be formed in situations where atmospheric air cannot penetrate, and observations upon pus corpuscles show that they have no such mode of origin as this which has been claimed for them.

Observers who have studied the development of the pus corpuscle, though they are divergent in their views of its proximate origin, nevertheless all agree that it is derived from the intrinsic structures of the body, and not from material imported from without. At the present time the theories as to the immediate production of pus may be described as three— First, that of Virchow, which considers that pus is formed alone from the cells of connective tissue and epithelium; second, that of Cohnheim, that pus cells are white blood corpuseles, which have emigrated from the blood-stream through the walls of capillaries; third, that of Beale, that pus is a form of gerof capillaries; third, that of Beale, that pus is a norm or ger-minal matter capable of being evolved from any of the tissues. The theory of Professor Beale seems supported by the greatest amount of evidence. Whenever the germinal matter of the amount of structure. Whenever the germinal states of the normal tissues and fluids becomes endowed with the power of rapid multiplication, it becomes pas. The initial change inducing pus-formation is one of local nutrition; any tissue which is supplied with pabulum in excess can pass through the various stages of degradation to pus. The great histological characteristic of the pus corpuscle is its motility. The soft material of which it is composed becomes protruded at various points of its circumference in different degrees, causing It to assume ever-varying shapes. The buds and offshoots from its mass become detached, and form individual corpuscles, which rapidly live, grow, and proliferate, like their parent.

The first inducing cause of pus-formation may be prelimi-narily defined as irritation. Such irritation may be brought about by agents operating primarily either upon the tissues or upon the nervous system. The effect of such irritation depends upon its degree; there may be congestion, exudation, granulation, with, after interruption of the normal functions of the part, an increase of the formative or plastic activities of the protoplasm molecules subject to the condition of irritation; or, the irritation being in excess, congestion and exadation may pass on to rapid cell-proliferation and suppuration, "the pus cell being the extreme of excess of quantity and impair-ment of quality in the product of abnormally excited nutrition."(b)

(a) "I e les ai comparés aux globules de lévure de blère, et leur ai attribué un rôle analogue et la même oracine." "De l'Acide Phénique, p. 20. (b) Lister, pamphole, "On a fave of Compound Dislocation of the Ankle, etc., etc.," p. 21; and "On the Enrity Stages et Inflammation." (Politeragham Tenascions, 1894).

The great property, then, which differentiates pus from the cells of the normal finide and tissues is its property of rapid development and multiplication. No longer are those living molecules subservient to the nutritive needs of the higher organism which contains them; they live a life of their own, antagonistic to its life. In the early stages of inflammation them; they live high regular different properties to the first own, antagonistic to its life. In the early stages of inflammation has the life of the force that the control of the c there is a local withdrawal (the result of irritation) of the force which controls the normal circulation—there is stagnation of the blood-stream. By continuance of the retrograde process there is further abstraction of force from the higher organism there is further abstraction of force from the higher organism by transference of wiatip ower to the molecules adjacent to the by transference of visit power to the molecules adjacent to the instead of subserving the needs of the whole organism, they repair the injured part. Or close there is still grather abstrac-tion of force from the higher organism, and pari passa with the vitial activity of the rapidly multiplying egermian matter. (now pus) is the vital depression of the general body.

Under different circumstances, and in different situations.

pus corpuscles possess varying powers of proliferation. Moreover, they have a term of life, for their exterior tends to become denser, the buds are put forth with increasing difficulty, finally the germinal matter of the cell can no longer be extruded, as

it is encapsuled with a cell wall.

Pus, then, is the product of the degraded germinal matter of an organism, and its formation is due to any local irritation which reaches a certain intensity. There are many varieties of irritation which can induce suppuration—direct violence will induce it, even when the skin is unbroken and there is no possible influx of germ-laden air. Local disorders of innervation, and physical and chemical stimuli, can induce it. Antisepties themselves -- as carbolic acid-can cause irritation and pus formation. It is clear, therefore, that an antiseptio is not necessarily a preventive of suppuration. Anything, how-ever, which can sufficiently subdue the irritation which induces ever, which can summently subdue the irritation which induces it can suppress suppuration. Whilst, therefore, the idea of atmospheric germs as inducing suppuration is effectually dis-posed of, it may yet be that the irritation arising from the posed of, it may yet be that the introduced of its suppu-putrefaction of wounds is the most potent cause of the suppu-ration which occurs in them. Thus atmospheric germs, though not the direct, may yet be the chief causes. To investigate not the direct, may yet be the chief causes. this, we will briefly consider the changes which occur in the case of wounds of the surface.

The first occurrences are laceration of the tissues, effusion of blood, exudation from the lacerated surfaces, and admission Provided the lacerated parts be brought together within a short period from the injury, and so that no atmo-spheric air is inclosed in any pouch of the torn tissues nor any spheric art is motioned in any pound of the form source nor any foreign irritant material interposes between the surfaces, healing takes place by first intention. The fluid effused is non-irritant, the blood-products are absorbed, and the molecules of living material which develope are plastic—i.e., they become converted into the natural tissues of the healthy animal.

If the wounded surfaces, however, remain in coutact with It the wounded surraces, nowever, remain in couract wita atmospherio air, other changes ensue. First, a chemical change. The normal alkaline fluid of a torn muscle becomes, as Dr. B. W. Richardson has pointed ont, acid(c). This is simply due to the action of the atmospheric oxygen. This acidity may be a source of Irritation, but it is clear that it cannot be charged with the evils of suppuration, for a suppurating and unhealthy wound is not acid, but alkaline. Moreover, we know that dressings of an acid reaction (notably sulphurous acid) have tended to a prevention of suppuration and to a rapid cicatrisation.

The occurrence of putrefaction in an open wound is a matter of certain knowledge. It is obvious that the conditions necessary for such a process are present in a high degree. The surface of the wound in contact with the air presents some of the most of the wound in contact with the air presents some of the most purcestible substances known—blood and albuminous-exudation. Moisture is necessarily present, and the heat of the part is such as to dispose to a rapid series of changes. There is not merely an epriori likelihood of putrefaction occurring, but an impos-sibility that it should fail to occur under these conditions. And the fact is easily demonstrable; in twenty-four hours the exudation is peopled with vibriones and tainted with the odour extention is period with vivines and tailed with the obtain of decomposition. The question occurs—In how far is this undoubted putrefaction a source of delay and danger in the healing of wounds? It is almost a truism to say that a fetid condition of a wound is an adverse, while a dean and inodorous conditionisa favourable, sign. The fetor but indicates putrefaction, and this is commonly seen associated with a state of irritation in the wound. When a wound is kept free from putrefaction there are not these signs, provided there be no other source of irritation. Everyone knows that fractures with the skiu unbroken heal without suppuration and the dangers attendant upon those which communicate with the air. When, in the case of fracture, there is only a small wound, which can be closed by a natural scab, the dangers also are absent. The results of subcutaneous Surgery show how extensive wounds will heal without the complications which attend wounds of e surface-witness the excellent results attained by Mr. Wm. Adams in extensive operations by the subcutaneous method. Everyone knows the dangers which attend the admission of air into the great serous cavities of the body, and the cou-

arring the the great service carriers to the contingency.

There is also a mass of evidence showing that those influences After is also a mass or evacence anowing that these inmenses which suppress puterfaction check also the phenomena of irritation in wounds. One of the chief necessities for puterfaction is the presence of water. "In the battle-fields of Egypt," says Dr. B. W. Richardson, "operations performed under cauras in perfectly dry heated air, in which all decomposition of albuminous matter is impossible-in which air, in fact, albu-

men itself dries into a horny covering—the process of rapid healing was a marvel to all who witnessed."(d)

It may therefore be fairly concluded that putrefaction necessarily takes place in wounds which remain in contact with the air, and that this putrefaction is capable of initiating phe-nomena of irritation which do not exist when it is prevented. amount to that degree which induces suppuration. To induce suppuration the putrefactive condition must be prolonged for suppuration the putertactive condition must be protonged for three or four days, just as in the inflammatory process from other stimuli, pus is not produced at once, but after the lapse of time and the occurrence of various cycles of changes. Yet puterfaction is none the less a most potent means of inducing suppuration as of the other phenomena of irritation. Its influence in this direction far exceeds that of such foreign bodies as we have been accustomed to consider much more potent. Has it not been generally understood that a piece of dead and detached bone is an irritant body which must set up suppuration around itself, and eventually construct, by the breaking-down of the neighbouring soft parts, a channel whence it can become discharged from the organism? Professor Lister has, however, shown that where putrefaction and its consequent irritation is prevented, a fereign body, whether a sequestrum or a ligature, is no longer a destructive pus-inducing agent, but a material lying tranquilly in the tissues until gradually removed by the

fring tranquily in the useure until generally tensors of an atural processes of absorption.(e)

From all sides, then, I consider that the evidence supports the statement of Professor Lister with regard to wounds, the etazement of Professor Laster with regard to wounds, that, "of all external agencies, the most injurious by far is puterfaction." From a long-continued investigation of the subject, the steps of which I hope shortly to bring before the Medical public, I entirely subscribe to the view that putrefaction necessarily depends, not upon the air itself, but upon life-possessing molecules suspended in it.(f) To prevent the evil influences of wounds, therefore, it is not of absolute necessity to exclude atmospheric air, but to exclude or render inert those molecules on which its putrefactiouinducing property depends. A beautiful synthetic illustration of this was adduced by Professor Lister. When air entering from without into the pleural cavity, irritation and pus-formation necessarily ensue—there is empyema. When, however, the air which enters the pleural asc comes intermediately from the lungs, as in the case of puncture of the lung from a fractured rib, pus does not form. Yet the only change upon the air has rib, pus does not form. Yet the only change upon the air has been filtration through the tissue of the lung—a filtration been fittration through the useue or use sing—a marsion which has freed it from its putrefaction-inducing molecules. Another synthetical proof of the doctrine is the success which has attended the practice of the principles which Professor Lister has enunciated. In using carbolic acid one employs an agent whose sole remarkable characteristic is its power as a poison upon those low forms of living matter on which putre-faction depends. When by its means putrefaction is arrested, the healing of wounds takes place without symptoms of irritation either in the wound or in the general system.

I trust that I have been able to express the relation which logically subsists between putrefaction and suppuration. Putrefaction is one of the many forms of irritation that can induce the formation of pus. In the case of open wounds it is the chief of such forms of irritation. In open wounds suppuration is often as evil, and ever a necessity. Therefore, the prevention of putrefaction in wounds is certainly to be at-

mpted. The relation between suppuration and atmospheric germs is this:—The germs existing in the atmosphere alone, render it espable of inducing the putrefaction which is the chief source of irritation and suppurstaint in wounds. Imported by the air, or by any other physical medium (as water, foreign bodies, etc.), to the eminently putrescible material of the surface of wounds, these germs can initiate putrefaction and its attendant phenomens, just as they can, under other circumstances, fer-mentation and putrefaction. When, however, these germs are or in the fluids, which is a poison to them, they are incapable of initiating putrefaction, and its attendant dangers-irritation and suppuration. The bases of the antiseptic treatment of wounds may be thus defined :-

A. Suppuration is an unmitigated evil; it is in no sense necessary for the healing of wounds. It is injurious (1) to the individual—directly by withdrawing force which, under normal conditions, is subservient to the nutritive needs of the organism, indirectly by its liability to decompose and give rise to an infectious disease-producing material which may be reabsorbed;

rections unecase-protucing material which may be reasourced; (2) to the community, by being capable of conversion into the transmissible poison of spreading disease.

B. Whilst any irritation of sufficient intensity can induce suppuration in the case of external wounds, putrefaction is the chief; and anything which prevents putrefaction in an open wound tends to prevent suppuration.

C. The object of the antisoptic system is to prevent putre-

faction, and thus to prevent the evils which flow from it.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

BRITISH HOSPITAL FOR DISEASES OF THE SKIN.

CASE OF ELEPHANTIASIS GRÆCORUM.

(Under the care of Mr. BALMANNO SQUIRE.)

This case, the details of which are given below, is interesting, This case, the decais of waten are given octow, is microsung, not only on account of the extremely rare occurrence of elphantisatis greeorum in this country, but also because it illustrates a point of some importance in reference to the mysternot geographical distribution of this disease. From the fact of the disease being met with both in cold climator (e.g., in Norway), and disease being met with both in cold climator (e.g., in Norway), and iu warm climates (e.g., in the East and West Indies), it would seem as if its caprice in affecting certain districts of the globe and leaving intact others were the result rather of hereditary predisposition in the races of people inhabiting these districts than of the influence of climate, since the disease is capable of flourishing in climates of apparently so opposite a character. But, although it has been well ascertained that hereditary predisposition plays an important part in the causation of clephan-tiasis graecorum, the influence of climate appears to be the chief agent in its production. What special peculiarities of climate may be essential to the development of so formidable a disorder, no observer has as yet been able to discover.

Emma P., aged 13½ years, admitted April, 1869, is a native of the Isle of Trinidad. Her father has lived there for twentyof the lass of Frincian. Her inteer has nived there for twenty-three years, and her mother for twenty-eight years. The patient has been in England uearlytwo-years. She has no "black blood" in her. Her father, an Englishman, is a untive of Newcastle; her mother, a Canadian, was born in Quoboc. Her mother, an intelligent woman, states that also has observed the complaint her daughter is affected with to be common amongst the mulattos on the Island, but not with the negroes. The negroes are tos on the Island, but not with the nogroes. The negroes are more numerous than the mulattos; the white population is very scanty indeed. Passing by the Leper Hospital at various times, she has observed that the immates are chiefly mulattos. The patient has been affected five years. The disease apprared first on her legs and arms, and about a year afterwards on her face. Her mother has five children in all : a girl aged 18; a girl aged 15; the patient aged 13½; a girl aged 11; and a boy aged 9. None of them, with the exception of the patient, have ever been affected with anything like this disease.

On pricking the patient alternately on the patches of dis-eased skin and on the sound skin with the point of a needle, she states that the skin is much less sensitive on the diseased

⁽d) Medical Times and Gazette, loc. cit.

⁽e) See "Remarks on a Case of Compound Dislocation of the Ankle, to," p. 22; and "Papers on Antiseptic Ligature of Arteries." (f) See papers by the author in Chemical News, November 18 and 25, 1870.

than on the sound parts. Her general health has always been very good, both before and since the appearance of her com-plaint; she is however, much thinner than she was, and for the last month she has been very low-spirited. She has not grown so much as her elder sisters had at her age, and her younger sister is much taller than she is.

The patient presents a very aged appearance. Her photograph (a very excellent portrait of her), representing the face only, was surmised by several persons to whom it has been shown to be the photograph of a woman of about sixty years of age. Her catamenia have not yet appeared. The "lumps on age. Arc catamenta may not yet appeared. An "numps on her skin, so her mother states, disappear, as a rule, without "breaking" or leaving any soars. They get softer, and finally subside. Some of those that appeared five years ago are now only beginning to soften. A few have broken, but heal up again in a few days; not one has left any scar.

On the trunk she has several tawny patches, but very slightly elevated; not shiny, but dull and wrinkled. They are not harsh, however, nor do they desquamate; their colour is shaded off (not abruptly limited) at the edge.

shaded off (not abruptly limited) at the edge.

Their size varies from that of a six-penny-piece to that of a crown-piece. The smaller ones are irregularly rounded; the larger ones are irregularly oval. They are arranged in four clusters; one around either aeromion, one across the front of the abdomen, and one on the loins. There are two about the left shoulder, and four or five about the right shoulder; halfa-dozen or more on the loins, and four or five on the epigastrium. The sensibility of these stains does not appear to b much impaired as that of the tubercles on the face. These places on the trunk have never been worse than now; they never been as the places now on the face; on the other hand, they have not got noticeably worse, at all events of late.

The patches on the face began to get decidedly lumpy for the first time about six months before the patient came to

the first time about six months before the patient came to Encland—that is to say, about two and a half years ago. On the legs the emption is as follows:—The front of the lower half of the right leg, including the aakle, and the whole of the front of the left leg (and ankle), is covered with an irregularly almost turny-red stain, similar to those on the trunk. Here and there, on either of the patches, are a few trunk. Here and there, on either of the patches, are a few purplish, irregularly shaped pea-sized tuborcles, which have only recently been noticed. The soles of the feet and the plantar surfaces of the toes are also similarly affected. The nails of the toes are diseased, deformed, and brittle. On the tuwny surfaces of the legs the natural furrows of the skin are abnormally conspicuous, although they are by no means con-siderably deepened. This appearance is the result of a thin foliaceous desquamation of a peculiar kind, which affects the tollineous usequamination of a popular size and shape to the spletmin. The scales correspond in size and shape to the islets marked out by the decussation of the furrows. They are perfectly smooth, and extremely thin. Except at their extreme edges, they adhere intimately to the skin beneath, and so present no notable opacity, and in no way whiten the tawny colour of the structures beneath, the tint of which shines unmodified through them. But at their extreme edges, and only at their edges, they are separated from the structures beneath, and so are opaque and white just at the lines of juncture with adjacent ones, so that the natural furrows of the skin appear white. In front of the ankles, where the islets mapped out by the furrows are small and rectangular, the skin looks as if some lace had been stretched over it. On the soles of the feet the desquamation is more marked, and here and there-for the desquamation is more marked, and nere and there—for example, at the heels and the great toes—the flakes are large and thick. But the general aspect of the soles differs widely from that presented by plantar provinsis; the smooth, polished, tawny aspect of the greater part of the feet distinguishing their condition at a glance. There are several patches like those of the trunk, both as regards colour, texture, and average size, over the thighs, nates, and arms and forearms. There are four or ther ongue, nates, and arms and towarms. After are four or On some of those on the forestram, little hard pupplet links. On some of those on the forestram, little hard pupplet links, e-cales are beginning to appear of the size of half a pea. There is one large patch over either elbow one inch and a half in diameter, and each of these is allogether tubercular, but is colour is not of the tawny quality of those on the face, but is of a purplish hue. The whole of the skin is inelastic and wrinkled in a most remarkable degree. The palms of the hands are purplish, and there is desquamation at the creases of

The Face.—There is one patch over the glabella, which is rounded, and of the size of a threepenny-piece. There is another patch, which is slighter and more irregular, imme-diately beneath this, but separated from it by a band of sound skin about one-eleveath of an inch in diameter. On the tip of the

nose, but slightly on the right side, is a patch of the size of a shilling. It is oval, its long diameter being directed obliquely downwards and forwards. Above the right angle of the mouth is another patch, irregularly oval, and slightly larger than the s muonic pace, irreguirry ora, and sugary larger that the preceding, its long diameter being directed downwards and outwards. The lower edge of this patch is about one-eighth of an inch above the angle of the mouth. Immediately below the right angle of the mouth is a patch of the size of a pea. On the lower lip, on either side, at the junction of the outer with the middle third, is a patch, that on the right side being the more deeply coloured and the more prominent, but th smaller of the two; it is oval, its long diameter vertical, and its size that of a threepenny-piece. The area of the left patch is sather more extensive than that of a sixpenny-piece, and its shape is oblong, its long diameter being directed from the outside and below the left angle of the mouth is a smaller, slightly raised, faint, diffused stain; its area, that of a fourpenny-piece. The front of the neck is covered by a stain, similar to those on the trunk, measuring three inches across, similar to those on the trunk, measuring three inenes across, by two and a half vertically. The upper two-thirds of the edge of the pinna of either ear is considerably thickneed, infiltrated, and deformed by tawny nodular swellings. In the centre of the larger patches on the face, the elevation of the morbid surface amounts to at least one-eighth of an inch above the level of the skin, and on pinching up a patch, and then pinching up a similar area of adjacent sound skin, using equal pressure to each, the finger and thumb are seen to be separated by double the distance in the one case that they are in the by double the distance in the one case that they are in the other. The patches on the face are smooth and shining; they are of a tawny ochreish-yellow colour, and their colour is variegated by bunches of enlarged varicose venous radicles, which invade them from the sides. This is most marked in the patch on the tip of the nose, and next so in the patch on the right check, and in that on the right side of the lower lip. The under surface of each ala of the nose, as well as of the septum, is affected—that is to say, it is tawny, swollen, and mottled with venous radicles.

Treatment.—The recent emaciation of the patient, and the marked absence of tonic elasticity in the skin, suggested the internal administration of cod-liver oil and of steel as the internal administration of cod-liver oil and of steel as the most suitable remedies, and the chronically thickened condition of the skin was treated by the local application of the yellow oxide of mercury ointenet, and the occasional painting of the patches with the linimentum iodi. Under these measures, which have now been employed for air months, the patient has notably improved, both in general aspect and in the condition of the individual patches, although she is still far from well; but most probably the change of climate has exercised some influence in arresting the progress of the disease.

THE VACCINATION COMMITTEE.—Mr. John Candlish, M.P. for Sunderland, who is also one of the Committee, said: -"I introduced my Bill last session, to limit the penalties for non-vaccination, because of the conflicting state of the law, and because magistrates have fined and imprisoned non-vaccinators repeatedly for the same offence, which I believe to be against the intention of the Committee of 1866, of which I was a member. I have evidence of at least fifty cases of repeated convictions for the same child. The first is that of James A. H. Toulson, of Leeds, who has been summoned twelve times in fourteen months for refusing to vaccinate his child. James Lawton, of North Whittington, near Chesterfield, who is now in Derby Gaol, has been summoned ten times in twelve months for two unvaccinated children. His effects being exhausted by repeated fines and distraints, he has been sent to prison. Mr. Lawton is a man of good repute and fair Dettig cannasses.

Mr. Lawton is a man of good repute and fair education. I believe almost impossible to produce a stronger case. The second of the second o considered, the oppressive nature of the law, and continued-"If vaccination is no protection at all, it ought to be abolished. Even if it is complete protection, it ought not to be enforced with repeated penalties, because there would be no danger from the unvaccinated."

An Italian chemical society is established, under the auspices of Dr. Canizzaro.

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SATURDAY, APRIL 29, 1871.

VACCINATION AND SYPHILIS.

TUESDAY evening's meeting of the Royal Medico-Chirurgical Society was in all points most interesting. The room was well filled in anticipation of Mr. Jonathan Hutchinson's promised paper on "The Communication of Syphilis by Vaccination." The facts related by Mr. Hutchinson are briefly these. A highly respectable Surgeon obtained from a public vaccine institution, on February 7, 1871, an apparently healthy child of four months, to serve as vaccinifer. Eleven persons in a house of business, chiefly young adults, were vaccinated by the lymph from four out of five vesicles on the vaccinifer's arm. It was noticed at the time that every vesicle bled. Ten of the eleven persons took the vaccination, which went through its normal course, and the scabs had fallen in three weeks; but after two weeks more, the cicatrices had become enlarged indurated and subsequently ulcerated, the axillary glands were enlarged, and there was some roscolar rash. This state of things led to inquiry, which was conducted by Mr. Hutchinson. He found that the infant vaccinifer was a fine, healthy-looking child; well grown; no unhealthy tint of skin. Cross-examination extorted a doubtful confession that there had been "snuffles" and a peculiar twang in crying in early infancy, and on close scrutiny five very small mucous patches were found near the anus. The mother was apparently healthy; this was her first child after eighteen months' marriage; but there was a suspicion of syphilis about the husband, which he gave no opportunity for having cleared up. It must be added that the child's vaccination went through its stages perfectly, and that there was no trace of disease in its cicatrices. Now, it is worthy of notice that the two individuals who were first done from this vaccinifer had regular vaccinia and no syphilis. But of the remaining nine, all had chancres, though one of them had no vaccinia; eight had vaccinia followed by chancre; that is to say-

Vaccine without syphilis 2
Syphilis without vaccine . . . 1
Vaccine with syphilis 8

Out of the whole number of punctured insertions, one-half became chancres; the remaining punctures became ordinary vaccine scars. The chances were indurated, round, with thin glutinous discharge, speedily passing into fungous buttons. Some of these patients had headache and pain in the limbs. We must not here gointed éstalls better reserved for our regular report, but may indicate the conclusions which Mr. Hutchiases deswitch the effect that a child in apparent health, with latent syphilis, may yield pure vaccine lymph, or may yield syphilitic poison only, or both : and that it is the admixture of blood with lymph which gives the syphilis. The discussion was adjourned till May 9, when we are promised further details of the condition of the patients under the mercurial course, which, by Mr. Hutchinson's advice, was begun on April 5. In the very interesting discussion which followed, Mr. Lee, Mr. De Meric, Mr. Brudenell Carter, and Dr. Drysdale expressed their conviction that Mr. Hutchinson's paper would break through the incredulity which, under official guidance and blue-book instruction, most British Practitioners entertained with regard to the possibility that vaccinia could be a vehicle of syphilis. Of course, this called up Mr. Simon, whose reports as Medical Officer of the Privy Council were thus inculpated. He made a singularly interesting speech, evidently under the conflict of great and contending emotion. He admitted frankly that Mr. Hutchinson had proved his case; but showed, and in some degree satisfactorily, that, on fair grounds of evidence, he had no right to assume it as proved that syphilis could be given by vaccination, for he showed that full and free inquiry amongst English Practitioners was so conclusive as to the negative, that he had no right to put into the scale the effects "of what purported to be vaccination" in other countries. He then spoke of certain precautions which, under penalty of mala praxis, must be adopted for the future : such as-Never to vaccinate without the most minute inquiry as to the health of the vaccinifer by visual examination; never to draw blood, and never to vaccinate from vesicles with inflamed areola, because inflammation was virtually a transudation of liquor sanguinis, possibly charged with poisonous lencocytes, equally syphilitic with the blood itself. Moreover, one of the speakers cautioned the Society as to the danger of scraping the surface of a vaccine vesicle, because, as he observed, we might thereby abrade cuticle, cuticle might be living and syphilitic, and convey syphilis mixed with the vaccine lymph. Mr. Henry Lee endorsed this cantion by narrating instances of the vitality of transplanted cuticle. Thus, then, the operator must be eareful not to abrade the surface of a vaccine vesicle, and equally careful not to tap the liquor sanguinis at its base. We will leave our practical readers to judge how far it will be possible to vaccinate any number, and fill any quantity of tubes from a vesicle, if these precautions are to be rigorously observed. Moreover, one speaker pointed out the risk of conveying blood from the vaccinated to the vacciniferous child during the operation. Many considerations will suggest themselves here to our readers, and the most palpable one is that, to avoid male prazis and the propagation of syphilis, the only feasible plan would, at the first blush, appear to be to vaccinate universally from the heifer. But of this more hereafter.

THE SMALL-POX EPIDEMIC.

A FURTHER increase in the small-pox mortality of London was recorded last week, when 276 deaths were registered. There has been a slight increase also in Liverpool. After distributing the deaths occurring in the Hospitals among the several districts of London, it is found that they furnished fatal cases as follows: -The South districts, 99 deaths; the North, 64; the East, 57; the West, 31; and the Central, 25 deaths. The fatal cases show a decline in the North districts, while they were considerably more numerous in the Central and South districts. The fatality from the disease had increased last week in Holborn. Battersea, and Southwark. The Registrar-General adds that it is worthy of remark that five of the fatal cases recorded in the Small-pox Hospital at Islington were of inmates admitted from the suburban districts, Edgware, Stanmere, Willesden, and Hendon. We regret to observe that, judging from the Health Officers' returns of fresh cases, no diminution cocurred last week in Hackney, Islington, and St. Paneres, all of which parishes are suffering severely; nor yet in the Sonthern districts furnishing returns; Newington, St. Georgethe-Martyr, and Clapham are being heavily visited.

We mentioned, in a former article, one particular focus of smallpox in the parish of Islington, where a very rapid extension of the disease had recently taken place. A few days ago, when the Health Officer was paying an official visit to the district, we took the opportunity of observing for ourselves how it was that the spread took place. The district invaded consisted of small houses, mostly let in single rooms to separate families, and a few shops, of the character usually found in such localities, where all kinds of articles required by the poor for domestic use are sold-groceries, butter, cheese, bacon, herrings, milk, etc. In the back parlour of one of these shops lay a child sick with small-pox; the mother, who nursed her, attended also to the shop. The inspector had directed a cloth sprinkled with carbolic acid to be hung over the communicating doorway, and also over the doorway leading to the passage of the house; but either the direction had been misunderstood, or there had been some interference, for both cloths had been fastened to the doors themselves, one of which was open, and the cloths had long ago become dry. Another house was a public-house. The door was closed, but, after knocking twice, it was unbolted, and we found here two cases; one, a modified case, in the barparlour, the other, a bad case of semi-confluent small-pox, in the clubroom upstairs. These were two children of the landtord. He, and a woman who assisted him in nursing the children, were the only other persons in the house. He said, on being questioned, that he did not like the children to go to the Hospital, but, as his house was shunned after it was known there was small-pox there, he found he might just as well close it. In a third house, three personsthe father (a painter) and two children-had had small-pox. The Health Officer had not received any notice of these cases until the day of the visit, and after the father had gone to the Hospital; only one child was found suffering from the modified disease. The futher had been the first attacked. "How did he get it?" "Oh, I know how he got it very well," said the wife; "a fellow-workman, who had recovered from small-pox some time ago, gave him a coat. I told him he had better not put it on, but he would do so, and he wore it, and a week or so afterwards he fell ill, and the children caught it from him." The public-house mentioned above was at the corner of a street, and was the first of a row of about eight houses, one of which was empty. In nearly all these houses from one to four cases of small-pox had occurred, or were there lying. Some of the doors were open, so that anyone that had business with the inhabitants might walk into the individual rooms at pleasure. On the opposite side of the road there was or had been small-pox in four or five houses-one the general shop described. On the steps of one of the houses was a group of four women, one of them with a slight, modified eruption upon her face. There was a man ill in be I with small-pox upstairs. The woman did not seem to know it was small-pox, and, if she did, both she and her companions made very light of it. It is not at all an uncommon thing for people thus conditioned to be walking about and communicating with their neighbours. What is to be done with them? Their act is a penal one, yet, with a contagious disease upon them, they can afford to laugh at threats of a summons, and they know very well that the parochial authorities have their hands full. Nothing will check this kind of thing but a power of compulsory and immediate removal of such dangerous people to a Hospital, and such a power is not possessed. In another room, at the upper part of a house, a mother and two children had had small-pox. One of the latter was still ill; the other, the mother said, was better, " and the Doctor said it would do him good to go out, so she had sent him out to play." Close by was a marine-store dealer's; the Health Officer recollected this house as one where the occupier and his wife had severe typhoid last autumn. There was a poor man ill with severe small-pox now in an upper room; his wife nursed him. These were in receipt of parochial relief, which the woman had to go to the station to obtain, mixing there with other persons upon the same errand. Of course she had also to go out to shops and other places for what she needed. On the landing outside the door of the room were hung over the rail the filthy old clothes which the poor man had worn when attacked, while on the floor there was a heap of rags, linen clothes, and other articles stained with discharges. These were soaked on the spotwith carbolic acid, and directed to be burned by the inspector that evening. In this parishtthere is no disinfecting oven. The practice is to burn all infected bedding and such . clothing as cannot be boiled with carbolic acid, and to give new articles in place of them. At several of the houses visited, washing or mangling were taken in; but under the directions received, the people had abstained from carrying on their business on the discovery of the cases and on receiving warning from the inspector. In one of these there was a girl ill, who was being nursed by a young woman, a neighbour, who went backwards and forwards to her own home and family. While in the street, we saw this woman standing at the door of other houses gossiping with different groups of females. At one house called at, everyone in the family (unvaccinated) had had small-pox, and one was then lying ill with it. A sister had come in from a distance, and was sitting with an infant in her arms. The infant had been recently vaccinated, but the mother had not been revaccinated, and only laughed when the danger she was running was explained to her. General open house was the rule throughout the street, the inhabitants flocking to the doors and to each other's rooms for gossip, without any regard to the presence of contagious disease. In one room a woman, very ill, lying upon a filthy mass of rags, was being nursed by a boy about 16, who said he got his living, when he could, by hawking things in the streets. She had no one else to care for her.

The majority of the cases we saw were modified; some were very slight, but we met with no family where revaccination had been sought or obtained. Whenever it was mentioued, the answer was, "Oh, I am not afraid." In one instance a public vaccinator had declined to revaccinate the children of an infected family, because they were too young. They took the disease in a modified form. The objections to going to the Hospital ,were-in some cases the slightness of the attack; in others, the mother did not wish to part with her children; in others, there was no room where the cases ought to have been removed. The difficulty in getting cases to the Hospital appears sometimes to be considerable. First, an application has to be made to the relieving officer, who, it seems, in some cases, declines to give any order for the parish Doctor, if he thinks the family is not destitute, or when the father is in work If he pleases, he gives an order for the district Surgeon to see the case. This order has to be taken to his private residence, and he visits the patient either immediately or on the next day, certifies that it is small-pox, and, if he thinks proper, recommends the case for the Hospital; mild cases are usually treated at home. This certificate has to be taken back to the relieving officer, who then has to ascertain whether there is room at the Hospital, and if there is, the patient must wait until the conveyance is at liberty to convey him. Dr. Stevenson, the Health Officer of St. Paneras, complains of similar delays. To sum up our impressions : A reckless indifference among the poor the natural offspring of a state which is a constant habitual struggle for mere life, leaving no time for consideration; ignorance and wilfulness, springing out of lack of useful education and proper training; imperfect vaccination primarily, and a neglect of the renewal of vaccination (for which, with poor people, there are many excuses to be made) are among the principal causes of the rapid extension of small-pox; while red

tape and circumlocution on the part of parish authorities, with the absence of convenient arrangements for immediate and compulsory isolation, act most efficiently as allies.

THE !WEEK.

TOPICS OF THE DAY.

THE Branch Medical Council for England met on Thursday. The main business before the Branch Council was the consideration of some cases in which certificates of death are said to have been improperly granted.

The General Medical Council will probably not meet before the end of July. It is to be hoped that before the meeting of the Council the examining bodies will have agreed upon a scheme for a Conjoint Examining Board. Any chance of Medical legislation in the presents session has utterly vanished, and there is, considering the state of political parties, not much higher probability of Parliament undertaking the task of Medical reform next year. If the examining bodies can be brought to co-operate in a liberal and unselfish spirit, merging petty differences, and not contending too much about minor details, we think that it will be far better for the liberties and independence of the Profession that new legislation should be avoided. We know that in some influential quarters the recent propositions of the Committee of the Council of the Royal College of Surgeons, especially that one which would appropriate to that College two-thirds of each fee for the conjoint diploma, are regarded with special disfavour. But, on the other hand, it is allowed by all that a sufficient provision must be made for the maintenance of the Hunterian Museum and the College Library. These great Professional institutions cannot be kept up without a large annual expenditure, and the Council of the College of Surgeons are certainly not to be blamed as a public and Professional body with enormous interests at stake for insuring themselves against any falling off of the necessary income. This is self-evident, and, we repeat, must be allowed on all hands. But this being so, it surely cannot be a difficult task so to apportion the receipts of the Conjoint Board that, on the one hand, a proper sum shall be set aside to meet the wants of the Hunterian Museum and Library, and, on the other, a fair remuneration shall be awarded to the contracting parties, who will share with the College of Surgeons the work of the Board. It seems to us that it will be a great disgrace to the examining bodies if a merely pecuniary consideration be allowed to stand in the way of a great and necessary reform. Another resolution of the Council of the College of Surgeons, that it is desirable that the examiners of the different bodies should possess certain degrees, inasmuch as, were it carried into action, it would shut out all general Practitioners in the ordinary sense of the term (i.e., all Licentiates of the Royal College of Physicians, all Members of the Royal College of Snrgeons, and Licentiates of the Apothecaries' Society) from the examination of general Practitioners-persons, be it remembered, who are to practise on the public with the very qualifications, the possession of which is held insufficient to fit them for the duties of the examining board-this proposition is, we say, so monstrous, that it cannot be maintained for a single moment. Practically, we have no doubt that the examiners will be chosen from the best men who are eligible, and probably, with no exception, they will possess the higher qualifications of the Profession; but to endeavour to restrict the choice of the examining bodies to the possessors of certain diplomas would be to impose an arbitary course, which the examining bodies will reasonably refuse to follow. The phrase " it is desirable," however, really means very little; and from its use it is pretty clear that the Council of the College would shrink from imposing a law upon other examining bodies which would fix the brand of inferiority upon their own Members, as well as upon the great mass of the Profession.

Mr. Lowe's extraordinary Budget bears most unfairly on Professional men. That Professional income should be as heavily taxed as incomes from capital is a palpable injustice; but Mr. Lowe not only increases the obnoxious income-tax, but he casts a covetous eve upon the little hoard which a Doctor or lawyer can put by for his children, and doubles succession. and legacy duties in the direct line. All classes who are able to accumulate anything are affected by this proposal, but not equally so. It would tell most heavily on those who are gentlemen by education and position, and who desire that their children should take the same rank in life with themselves, but who are not landed proprietors, and who have not access to the large fields for acquisition which commerce and manufacture open-in other words, it is on the professional classes that Mr. Lowe's proposals would prove the greatest infliction. The savings of a Professional man's life are probably not greater than the year's income of a third-rate Yorkshire manufacturer, but his children, who have to make their start in the world, and to maintain the position in which they have been educated, are to pay a large percentage of their father's scanty savings to the Government-savings, be it remembered, which have already in their father's life-time been largely taxed. We can only hope that the attitude of the House of Commous and the pressure of public opinion will induce Mr. Lowe to abandon the augmentation of the legacy and succession duties with the same precipitancy with which he abandoned the match-tax.

We are not inclined to agree with Dr. Lyon Playfair that a match-tax would diminish disease of the jaw-bone from phosphorus. The effect of a match-tax would be that the cheapest kind of matches would be manufactured, as is, we believe now the case in America. These matches are made from ordinary phosphorus, and it is working with this substance which induces the disease in question. The better kinds of safety-matches are made, we believe, with amorphous phosphorus, and amorphous phosphorus does not produce the same deleterious effect. We think, therefore, as the sale of the higher-priced would be lessened by a tax, and the manufacture of the worst description of matches would be encouraged, there would in consequence be a deterioration rather than an improvement in the health of the workmen.

We notice that the Lords of the Admirally have placed at the disposal of the Metropolitan District Avylums Board a second man-of-war, stationed in the Thames, for the reception of the convalescent from small-pox. We also observe that the inhabitants of Upper Calpion are protesting vehemently against Mrs. Gladstone's Small-pox Hospital in that district, where it is said that small-pox is being spread by the agency of the convalescent patients. The hulk in the Thames is a step in the right direction; but as the summer comes on and the epidemic increases, which it very probably will do, could not Government follow the advice of Surgeon-Major Atchisoo, and make encampments for the sick and convalescent on the open spaces round London?

The Association for the better Endowment of the University of Edinburgh continue to appeal to their graduates and the general public for money. The Medical portion of the graduates would, we believe, more readily respond to the appeal if a larger share of the money already subscribed had been laid out in endowing Medical scholarships in the University. Out of £1500 per annum appropriated to scholarships, only one foundation in Medicine of £10 per annum has been instituted. We cannot say whether this is in accordance with the wishes of the donors; but it is at least renarkable, considering that a great part of the success of the University has been dependent upon its renown as a Medical school.

The papers have lately contained a notice of hydrophobia having been developed in a considerable number of sheep belonging to Mr. Taylor, of Wadworth Hall, Yorkshire. The sheep were bitten by a mad dog, and the symptoms of foaming at the mouth, inability to swallow, and snapping at everything that came in their way followed. Several have been destroyed. Hydrophobia seems capable of reproduction in all warmblooded animals. It has been observed in the horse, elephant, jackal, fox, ox, sheep, and even in the common fowl.

METROPOLITAN BRANCH OF BRITISH MEDICAL ASSOCIATION.

THE paper by Dr. Seaton, read on the 21st inst., was just such as might have been expected from him when he announced as his subject " Some of the Lessons to be derived from the present Epidemic of Small-pox." It bore exclusively upon the relation of vaccination to small-pox in general, and to the existent epidemic in particular. There was little or nothing in it which was absolutely new, or with which all his hearers were not quite familiar; but what he did say was well said, his paper was well put together, and the facts and arguments put forward come from Dr. Seaton with the full weight of authority. The first question he applied himself to was the extensive and fatal prevalence of the epidemic, notwithstanding all that has been done by the State to encourage vaccination during the, last thirty years. He maintained that, like all other epidemics, small-pox when it comes varies in severity and diffusiveness, and that, admitting this to be an epidemic of fatal character and ready diffusibility, the true question at issue was the relative position held towards it by the vaccinated and the unvaccinated. He admitted that the vaccinated have died in larger proportion than has been customary, but so, too, have the unvaccinated. This has been due to the greater intensity of the variolous influence, an opinion confirmed by the Hospital experience of London, which shows a lessening of fatality as the epidemie has proceeded. Still, both in London and Liverpool, the relative position of the two classes of persons has remained the same. Vaccination, too, is protective in propor-tion to the completeness of the result. Taking this view of the value of vaccination, the present epidemic must be taken as evidence, either that vaccination has been much neglected, or that the Professional work of vaccination has been very imperfectly done. But he asked what is mount by "neglect"?-such neglect as would afford scope for an epidemic extension like the present. Assume 5 per cent. of the population in London to be unvaccinated, we should have 160,000 persons ready to receive and propagate the disease. Of course, do what we will short of vaccinating an infant as soon as it is born, there must be some unvaccinated infants; but this would be a trifling source of danger. All delay beyond what is reasonable is, however, to be held as neglect, and procrastination has more to do with this than any absolute objection on the part of parents to the operation itself. The longer the delay from apathy the greater the danger. Dr. Seaton pointed to Holland as an example of the danger of delay when carried to an extreme. In that country the let-alone system is in vogue, children under school-age being generally unvaccinated. In Rotterdam, the Hague, Utrecht, and Amsterdam, the mortality from small-pox since the beginning of the year has been such that our mortality in London will bear no comparison with it whatever. Passing on to the remedies applicable to neglect from procrastination, Dr. Seaton considered that what was needed was-1. A compulsory registration of births, so that every infant born might be held in view. 2. A systematic looking after all infants until the vaccination was certified. 3. The compulsory appointment by local authorities of an officer to look after them; and, 4, a monthly return of defaulters, and not a six-monthly one as at present made in England. Something, too, should be done to remove objectious on the part of people who, in ignorance of the facts of the case, raise them honestly and from conviction. The two chief grounds of objection are-1st. That vaccination really does not protect from small-pox, because so many vaccinated persons suffer out of proportion to the unvaccinated. The answer to this is that now the vaccinated form really the great bulk of the community. When the vaccinated, as in the early days of vaccination, constituted a small part of the community, and people saw the comparative security of this class, it was the wonderful protectiveness of vaccination which would strike their minds; but now the memory of smallpox having almost died away, it is the exceptions which strike. Much good, also, is done by recalling the memory of what small-pox used to be. It should also be explained to some who addnee instances of small-pox following shortly upon vaccination, that small-pox takes ten days at least to develope itself after the contagion is admitted into the system. It is more difficult to handle the objection that vaccination produces illhealth, and may implant other diseases-such as syphilis-in the constitution. But the first of these may be met by explaining the operation of febrile disturbance in bringing latent discases into activity, by showing how crysipelas may be traceable to causes independent of the vaccination itself, and the extremo rarity of the occurrence of syphilitie inoculation-such rarity, that vaccinators on the largest scale have passed through long lives without meeting with an instance of such an accident. But, apart from patient explanation of this kind, parents should be able to see that Medical men are careful in the selection of their vaccinifers, and do for their children exactly what they would do for their own. Dr. Seaton further advocates instruction in the advantages of vaccination as a part of the elementary teachings on health which onght to be given in every school. Finally, in view of the state in which we are now as regards vaccination, he insists that revaccination should not be left to periods of panic, but should be performed as systematically at 16 years of age as primary vaccination is at six weeks or two months.

DR. MOUAT'S LECTURE ON THE AMBULANCES AND BATTLE-FIELDS IN THE NOETH OF FRANCE.

THERE WAS A large attendance at the Boyal United Service Institution, on Friday, the 21st inst, to hear Dr. Monat's lecture, giving an account of his visit to the ambulances and battle-fields in the north of France, towards the termination of the France-Prussian war. Sir W. Codrington occupied the chair; Sir Vincent and Lady Eyre, M. Vaillant, Sir T. Galbrath Logan, many militrary and Medical officers, and several ladies were present. Dr. Monat's address was throughout most cloquent, and illustrated by historic reminiscences and personal anecdotes, full of humour and pathos, which entirely succeeded in maintaining the interest of the audience, by whom he was frequently and most enthusiastically applauded.

In the latter end of February, Sir Vincent Eyre and M. Vaillant, being about to proceed to the north of France, for the purpose of distributing the Seed Fund among the distressed French farmers, invited Dr. Monat to accompany them, which he gladly did. The portion of France visited by the party included Boulogne, Amiens, St. Quentin, and Peronne. Immenso numbers of wounded had passed through Amiens, and several ambulances had been opened for their accommodation. The English Aid Society had there one of its depôts, under the superintendence of Colonel and Mrs. Cox, whose unceasing zeal and exertions received the highest tribute from Dr. Moust. The largest ambulance in the town was the Prussian, in the Musée Napoleon, under the superintendence of a Prussian lady, the Fraulein Clara Heinrichs, who, from Dr. Mouat's account, appears, while having in her charge a large amount of stores of all kinds, to have at the same time fully appreciated the opportunity of getting, or, at least, asking, for contributions from the English stores and all visitors. The Hospital arrangements of the ambulance were of the rough-and-ready kind. The patients were in coarsely-constructed cribs, at such a height from the ground as must have been to them most incovenient, but which of course saved the backs of their Doctors when going their rounds. The ventilation was defective, and the dieting of the patients was not of that natritive and stimulant character

which is considered by British Surgeons best suited for wounded men. Mrs. Cox rendered invaluable service in this ambulance, overcoming by her tact and perseverance all the obstacles which routine and prejudice placed in her way. Lady Pigott's ambulance at St. Quentin, under English Surgeons, was a complete contrast in ventilation, general arrangements, and system of diet to that at Amiens. As to the Geneva Convention, Dr. Mount maintained that, considering all the circumstances, it had fulfilled its design. He admitted its liability to abuse, and the necessity of all its provisions being thoroughly discussed by the aid of the light thrown upon them by the recent war. Dr. Mouat traced the German triumphs to their perfect administration and attention to the most minute details. " Beer, beef, boots, and bacey " he characterised as the great elements of their success. The French failures he attributed entirely to indiscipline and the Intendance.

DB. TREACH'S REFORT ON THE HEALTH OF LIVERFOOL, 1870.

Dn. TREACH begins his most complete and elaborate report with a fact which is gratifying—tix., a decrease of 1 per 1000 in the mortality during 1870 on the average of the last ten years;—see now it is 31:1. Out of the total 16,099 deaths, 210 occurred in Hospitals and workhouses. When we come to details, we find that the density of population in Liverpool is equal to 99-3 persons per acre, whereas Birmingham has 47, London 41, and Sheffield 10.

"The deaths of infants below the fifth year of their age amounted to 8148, and thus comprised 60°6 per cent. of the whole deaths. There were at the last census 60,760 children under five years of age within the borough of Liverpool, and the number may now be estimated at 70,837; therefore, their mortality in 150° was equal to 11° per cent, 4962 infants, or mortality in 150° was capual to 11° per cent, 4962 infants, or Liverpool, died before attaining the age of twelve mouths.

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the year 1870, and thus accounted for 29.3 per cent, of the total mortality within the borough of Liverpool during the same period. This was nearly 1 per cent. more than the proportional rate of symotic deaths to deaths from all causes during the preceding decennial period. Searlatina arounted during the year for 1278 deaths, or for 642 in the vas outlied outling the year for 1278 deaths, or for 642 in the vas outlied outlier of the proposition of the settinated population. Diarrheas accounted for 1151 deaths, or for 628

Diarrhosa accounted for 1151 deaths, or for 628 in the parish, and 523 in the out-townships. Of these, 1041 were of children under 5."

Small-pox began only in September; in that quarter the deaths were ten; in the December quarter, 164.

The inspection of common lodging-houses, and of houses sub-let in separate rooms, is evidently carried on with vigour:—

"The number of sub-let houses on the Registry at the termination of 1889 was 7,539; the number registered during 1870 was 1264, making the total on the register on December 31, 1893. The another of visits paid during the night was 11,270, and during the day 67,342, with the result of finding 1458 (though not punishable in sub-let houses) of permitting shall males and fenales not married to occupy the same room, comes under the notice of, and is entered in the books of, the inspectors. There were 615 rooms thus indecently occupied by 253 males and 1032 fenales, besides having also in these rooms 615 children between the agent of and 13 years. . . The the wear smooth to 6865."

Of unwholesome meat, there were condemned—beef, 113,206 bs., veal, 29,036 bs.; mutton, 12,471 bs.; lamb, 971 bs.; pourry, 516 bead; rabbits, 1098 head; fish, 123,353 bs.; shell-fish, 233 bsgs; oysters (number), 13,606. Thequantity of meat tilled in the borough was—beasts, 26,229; sheep, 251,333; lambs, 10,227; culves, 14,221; pips, 30,923; sheep, 251,333; lambs, 10,227; culves, 14,221; pips, 30,923; sheep, 251,333; lambs, 10,227; culves, 14,221; pips, 30,923; sheep, 261,335; lambs, 10,227; culves, 14,221; pips, 30,923; sheep, 261,335; lambs, 10,227; culves, 14,221; pips, 30,923; sheep, 261,335; despending of the control of the c

Such are a few of the items of this magazine of statistical lore. The chief thing that strikes us is the frightful infent mortality.

SMALL-FOX AND FEVER IN GLASGOW.

From Dr. Gairdner's daily return we learn that on April 21 there were 459 known cases of fever and 10.70 small-poin the city of Glasgow. The deaths from fever during the welending April 22 were 14, and from small-pox 9. The forms is a decrease of 1, and the latter an increase of 4 upon the previous week. The deaths from all causes were 535, and the births were 377. In his fortnightly report, presented to the Glasgow Palice Board on April 24, he states that—

"The cases of fever made known at the Sanitary Office during the past fortnight were 291, against 352 in the preceding fornight, being a decrease of 61 cases. It is gratifying to ob that the decline of epidemic fever for the past two months has been continuous, and the diminished relative mortality of the central district is no doubt due to the diminished prevalenced relapsing fever, which, though not directly fatal, in a large proportion of cases was no doubt the cause of a large indirect mortality by the misery, poverty, and disease that frequenty followed in its train. Small-pox, although still prevalent to a extent very unusual for some years past, has received a decided check since the beginning of March, when 120 were reported as having occurred in the fortnight ending March 4. During as naving occurred in the total and the same as the basis the past fortnight 66 cases were made known at the Sanitary Office, and by far the greater number of these were accommodated at the Hospital in Parliamentary-tool. To-day there are 107 cases of small-pox in town, and 197 of these are in Hospital. It may fairly be presumed that the constant care taken to remove to Hospital all the cases in poor localities known to us, and the house-to-house visitstion of the localities with a view to recommend and practise vaccination, have been largely effective in restraining the epidemic hitherto, and preventing it from assuming the preportions of the London and Liverpool epidemics. striking fact which should be known to the authorities that, since March 8, 120 separate localities have been visited in consequence of small-pox cases having been reported. These have all been subjected to house-to-house visitation with the above objects, and in only one instance, as far is known to us has the disease reappeared in the tenement in which a case has been so reported."

With respect to a death of a girl aged 11 years in an industrial selond, Dr. Gairdner justy observes that neakschool can be held to be properly managed unless accident of this kind are seemed against by the systematic vaciation or revaceination of all the children on admission. In the Catholic Reformatory, where fourteen cases had occurethe disease was immediately checked by general vacciastion of the inmates. Dr. Gairdner presses upon the manager of private as well as of public schools the importance of giving attention to this matter, and of protecting the children by complete vaccination.

MR. CARDWELL'S RECRUITS.

A LETTER on this subject, under the signature "Deputy Inspector-General," occupied a prominent position in Monday's Times, and has since attracted a considerable share of public attention. A Deputy Inspector-General of Army Hospitals is naturally supposed to have an intimate knowledge of the present system of examination of recruits, and of the style of men now coming into the army. When an officer of this rank, therefore, asserts that we are getting a sham army of wedg recruits, hundreds of whom have passed through his hards. the statement is calculated to excite public anxiety, and to cause a demand for investigation as to its accuracy. It should at once be either corroborated or disproved. The number of recruits offering for service in the army may not be sufficient to supply the necessary number of eligible men, but it is ascrious charge against the recruiting Medical officers to say that they are passing into the service a large proportion of men quitunfit for it. On one point alluded to by "Deputy InspectorGeneral" there can be no difference of opinion, and that is, the unsuitability of young lads for military service in India or other tropical climates. The proposal, for this reason, of raising local armies fer India and our tropical possessions is met by so many objections that it is hardly likely to be entertained.

PROPOSED AMALGAMATION OF THE POOR-LAW BOARD, OF THE MEDICAL DEPARTMENT OF THE PRIVY COUNCIL, AND OF THE BANITARY DEPARTMENT OF THE HOME OFFICE, INTO A LOCAL GOVERNMENT BOARD.

According to Mr. Goschen's proposed "Rating and Local Government Act, 1871 "-

"A board is to be established to be called the Local Government Board, and is to consist of a president and of the follow-ing ex-afficio members—viz., her Majesty's Principal Secretaries State for the time being, the Lord Privy Seal, and the Chancellor of the Exchequer.

"The president is to be appointed by her Majesty, and hold office during her pleasure.

"The Local Government Board may appoint two secretaries, and such number of clerks and other officers as the Board may, with the sanction of the Treasury, determine.

"The president and one of the secretaries of the Local Government Board shall at the same time be capable of being elected to, and of voting in, the Commons House of Parliament, "No payment is to be made to the ex-officio members of the Local Government Board.

" From and after the establishment of the Local Government

Board there shall be transferred to it-1. All powers and duties vested in or exercisable by the Poor-law Board.

"2. All such powers, duties, and authorities in relation to public health, local government, drainage, sanitary matters, baths and washhouses, public improvements, markets and fairs, smoke, and highways, as are exercisable by one of her Majesty's Principal Secretaries of State.

"3. All powers and duties in relation to public health, prevention of disease, and vaccination, exercisable by her Majesty's Privy Council."

SPURIOUS VACCINE LYMPH.

A BATHER warm passage-at-arms took place on Tuesday evening at the Medico-Chirurgical meeting between Mr. Brudenell Carter and Mr. Simon. The former stated, in the course of some remarks, that the lymph supplied in tubes from the Public Vaccino Establishment was often inert, and sometimes mixed with spittle. Mr. Simon seemed to think that this was a reflection on the public department over which he presides, and repudiated it in terms which somewhat exceeded Parlia-mentary customs of speech. Mr. Carter replied that on a particular occasion, struck by the inertness and peculiar character of some lymph in tubes, he had examined it microscopically, and found what appeared to be buccal epithelium and starch granules. (It is said, by-the-bye, that some vondors of vaccine lymph fabricate the article out of saliva and tartar emetic or croton oil.) But whilst Mr. Carter evidently substantiated his statement as to the lymph, no one could accept this as an imputation on Mr. Simon or the Government office. No officers can be responsible at all times for the discretion of their subordinates, and we may be sure that, had the full facts been laid before the Privy Council at the time, the source of the mischief would have been promptly and clearly traced. Mr. Carter should have complained specifically at the time.

THE FUTURE OF VACCINATION.

LITTLE else is talked of in Medical circles but the future of vaccination, and the probable effect on the public mind and on the Legislature of the now public recognition of the possibility of conveying syphilis with vaccine lymph. For our own parts, we think it a very good thing that the avowal is now openly and honestly made. There is no greater curiosity in Medical experience than the perverse ingenuity which has been exercised in explaining away, not merely the mass of foreign testimony, but that afforded by the few and isolated cases on English soil, especially that lately brought before the Clinical Society. So long as the possibility was denied, so long there was weakness and division among the propagators of vaccination; but now the whole Profession must feel relieved from an incubus. The worst is confessed, and we are in a position to estimate fairly what that amounts to. And it is this: That, in the successful effort to mitigate the smallpox, which is the direst pestilence the human race is subject to, there have occurred here and there a few instances of injury, from imperfection or carelessness, or peradventure from unforeseen contamination of the means resorted to. No person in his senses can venture to say that the propagation of syphilis, say in one case in 100,000 (which would be a proportion above the truth), is an evil to be compared with that of a pestilence which spares neither age nor sex, and disfigures or mutilates those whose lives are spared. Whilst public officials denied the possibility of such an occurrence, they could not have taken precautions against it; but this will be easy for the future. In the army revaccination, where great care is taken in selecting the vaccinifer, no such accident has been known; moreoverthere is the calf-vaccination to fall back upon.

THE PORTRY OF VACCINATION.

LAMBETH enjoys the advantage of a vaccination officer who gives his reports in terms which it must be a privilege for the guardians to listen to. Here is a specimen :-

"The dark, murky, variolous cloud still hovers o'er our great city, and in our favoured parish. The envenomed breeze has been fatal. One sickens at the thought of our doors being emblazoned with the red cross; at the watchers keeping us eminization with the red cross; at the waterest scepting ex-prisoners; at the desperation and despair, and the death-bell. This true there are antagonistic powers in nature, but there is one Supremo Power above all, and that power instructs a Jenner to mitigate and ameliorate the sufferings of Illi-crectures. Truly, the cloud still hangs heavily over us, but it has a silver lining, and even now the benign rays of the rising sun are tinging its edges with resplendent beauty. May the glorious rays of that sun soon shine into the hearts and homes of our native land, and fill us all with hope and happiness, and joy and gladness."

THE NEW ST. THOMAS'S HOSPITAL.

THE expected vacancies on the St. Thomas's Hospital staff are announced in our advertising columns. 'The governors will very soon elect a Physician, an Assistant-Physician, a Surgeon, and two Assistant-Surgeons. As we intimated last week, we have every reason to believe that this announcement is not a matter of form. The governors have, in the election of Mr. Liebreich, shown their determination to choose the best men, whencesoever they may come. They are not likely to overlook the long and able services of Mr. Croft, their senior Assistant-Surgeon. No new man could bring a higher claim to the Surgeoncy. Every other appointment is perfectly open to competition. The responsibility of recommending the candidates being thrown upon the Grand Committee, no man, however high his reputation and position may be, need be deterred by the uncertainties and annoyances of a canvas.

IDENTIFICATION OF THE PARTY OF

THE annual dinner in aid of the funds of this charity was held at Willis's-rooms, on Wednesday, the 26th, Professor Parkes in the chair. About seventy sat down, including most of the Professors of the College, Sir F. Goldsmid, Sir Rutherford Alcock, Sir William Jenner, and others. After the usual loyal toasts, the able chairman made a warm appeal in behalf of the funds of the institution, which was responded to favourably. Upwards of £1000 was anbecribed.

OUT-PATIENT REFORM.

Our readers will perceive, by a report published elsewhere, and by a letter from Dr. Meadows, that the meeting of Thursday, the 20th inst., was hardly as successful as its promoters could have wished. Above 700 invitations had been issued, and about fifty members of the Profession responded to the call; of many it must be said that they were conspicuous by their absence. Altogether, failure must be written after it. The Committee had not been able to make up their own minds, and could hardly expect to find the meeting do it for them. Then they were appointed to consider the out-patient departments of Hospitals; they left these as they found them, or nearly so, and took to dispensaries instead. These they would improve off the face of the earth, and in their place leave Poor-law authorities and provident dispensaries only. The latter, as we have repeatedly pointed out, are supposed by some to be pauaceas, but from the fact that two of the prime opponents of the report and resolutions belonged to provident dispensaries, it would not seem that they were likely to thrive, even supposing all free dispensaries were swept away. The Committee are only at the beginning of their labours. They have failed to persuade the Profession; will they be more successful with the public?

PATHOLOGICAL SOCIETY OF DUBLIN.

The closing meeting of the thirty-third annual assaion of this Society took place in the Anatomical Theatre of the School of Physic, Trinity College, on Saturday, April 22; Dr. James Stannas Hughes, president, in the chair. This meeting is always one of great interest, from the fact that at it the name of the successful candidate for the Society's gold medal is amounted. On Saturday last two medals were awarded—the gold to Mr. William Josias Smyly, son of the late eminent Sargeon, and brother of Dr. Philip C. Smyly, for his cessay on the "Diagnosis and Pathology of Injuries of the Vertebral Column and Spinal Cort;" and a silver one to Mr. William Freke Hingston, B.A., for his cessay on the same subject. The President congratulated these gentlemen on their success, and encouraged them to persevere in the conrae which had already procured them seeks signal distinction.

REWARD OF SURGICAL SERVICES AT DARMSTADT.

THE Darmstadt Gazette of Saturday, April 22, contains the following announcement:-

"H.R.H. the Grand Duke, by order dated the 8th of this month, has conferred the decoration of a Knight of the First Class of the Order of Philip the Generous on Dr. Maye, Staff Surgeon-Major and Director of the Alice Hospital, Darmstadt."

THE DENTAL HOSPITAL.

The festival of this institution was held on Toschay evening, the 25th inst; W. H. Smith, Esq., M.P., in the chair. The saceting was largely and influentially attended, and due recognition was given to the institution, the only real school of deutistry in the kingdom. Its connection with the introduction of nitrous oxide as an anesthetic should not be forgotten. Upwards of 5500 was subscribed.

FROM ADROAD.—M. DESOR ON THE EFFECTS OF THE CLIMATE OF THE UNITED STATES—M. AUBERT ON THE INSTRUCTION OF PATIENTS IN HOSPITALS—HOMOPOPATHIC INSURANCE OFFICES.

M. DESOR recently read, at the Helvetic Natural History Society, an interesting paper on the "Climate of the United States, and its Effects on Habits of Life and Moral Qualities," a translation of which appears in the Boston Journal for March 16. He observes that a German or Swiss emigrat, although not perceiving at first that the climate is very different from that of his own country, finds, after a while, that he is obliged to modify some of his habits, and, in the end, to adopt

those of the Americans, however much he may at first have criticised these. Europeans are not a little surprised at this, seeing tast the Northern States are within about the same parallels as Central Europe, that the isothermal lines correspond in a still more striking manner, and that the winter near New York or Boston is nearly as cold as that of Frankfort, Basle, or Zurich, and the summer at least as warm. The phenomena observed relate to common life and to the exercise of certain occupations. Among the former are the rapidity with which linen that has been washed dries, and the less pleasant circumstance of the rapid drying up of the bread, rendering it impossible to bake large supplies at a time, as is done in Germany. On the other hand, mouldiness is of much less frequent occurrence, and food, fruits, and vegetables can be kept well in cellars. A minor circumstance that excites surprise is the absence of frosting of the windows in the coldest weather Among the circumstances bearing on hygiene is the great dryness of the hair, rendering a greater need of oil or pomatum. Among the observations made in different occupations are, the rapidity with which houses may be built, without any fear of dampness on at once inhabiting them, and the quick succession in which the painter may apply his coats. Cabinet-makers and musical instrument makers, on the other hand, are obliged to take great care in the wood they select. French or Austrian pianos, however excellent they may be, very soon deteriorate in America. Carpenters are obliged to employ much stronger glue than in Europe; and tanners are surprised how rapidly their skins dry, especially in winter. The naturalist has no occasion to place lime or other absorbent in his gallerics, even when birds or mammals are deposited in apartments the plaster of which is scarcely dry.

All these phenomena arise from the greater dryness of the air in the Northern States, and yet the rainfall equals or surpasses that of Europe; in fact, the rainy days are more numerous than in Eastern Europe. Of course, the contradiction here is only apparent, the dryness really resulting from the air during clear weather being less charged with humidity. The atmosphere does not, as in England and Western Europe, remain nearly saturated, but no sooner does fine weather follow the rain than the hygrometer immediately falls, and the dewpoint keeps sensibly below the temperature of the surrounding air. In this respect there is a similarity between the climates of the United States and that of the Alpe; and to the dry state of the air in the latter is attributable the fact that less fatigue is felt in traversing mountains than in plains. The cause of the greater dryness is easily explained, as the predominant west winds only reach the Atlantic coast after they have swept over an entire continent. They are seldom accompanied by rain, and act the same part as the east winds do with us.

As to the effect of this climate on our race, M. Desor

observes:—

"At the present day, after but little more than two centurion, the inhabitant of the United States is no longer simply as Englishman; he has traits which are peculiar to binself, and which cannot be mistaken any more than the English physical states and the states of th

that the most intelligent have forecess, and have felt that there must be a limit to this excessive delicacy of form; and it is for this reason that, notwithstanding their instinctive aversion to the Irish, they are far from being oppose d to the immigraion of that race, who, by the plenitude of their forms and the cithness of their glandular system, appear made to resist with remark has, in fact, often been made that the bandsomest women are those born of European prents.

This influence of climate is further indicated by the fact that few Europeans grow fat in the States, while Americans, after only a short residence in Europe, acquire a remarkable appearance of health and well-being. Among the moral differences traceable to the same cause is the feverish activity and impatience everywhere prevailing in the States, and that at most unseasonable times-e.g., during meal-times. This great nervous irritability may, with extreme probability, be attributed to the dryness of the climate, resembling the effects produced less abidingly by the north-casterly winds in Europe. This effect is so well known to the inhabitants of the Jura, as to have become proverbial. In the United States a dry wind is not an occasional occurrence, as with us, but is the dominant wind along the Atlantic coast. Stimulants are less needed. and fermented liquors are much more pernicious than elsewhere. The English, who can drink wine and spirits with impunity at home, are obliged to renounce or restrict them in the States. Notwithstanding their apparent coldness, also, the Americans are much more irritable and susceptible than Europeans. Such excessive nervous irritability would be far more open in its manifestations but for the great control which early instruction has supplied.

M. Aubert, writing in the Lyon Medical (a journal which has continued to appear regularly during these troublous times), makes a very good suggestion with regard to employing some of the time which hangs so drearily on the hands of patients in Hospitals by giving instruction to such of them as are ignorant. "It is," he observes, " when illness has separated the patient from his family, his work, and his habits of life, that he can best appreciate the value of instruction. If he knows how to read, he finds the means of abridging bis long days, while, when he can write, some of the evils of separation from his family meet with some alleviation. Almost everyone who, on being questioned whether he possessed these accomplishments, and had to reply in the negative, added that it was a great misfortune for him, and seized with avidity the offer of an opportunity of leaving the Hospital less ignorant than he entered it.'

In France, ignorance is still very great; for, as late as 1865, 25 per cent. of the conscripts could not read or write, while the proportion found in the Hospitals is far more considerable; in fact, the conscripts consist of young persons, and are made up both of rich and the poor, while the population of the Hospitals consists almost exclusively of indigent persons, many of them much older than the conscripts. Of 495 male patients interrogated at the Hôtel-Dieu, Lyons, 166, or 33 per cent., could neither read or write; 63, or 12 per cent., could read only, or read and write very imperfectly; and 266, or 55 per cent., could read and write in different degrees. The case of the female patients was still worse. Of 241 of those interrogated, 86, or 36 per cent., could neither read or write; 82, or 34 per cent., did this very imperfectly, or could only read; and 73, or 30 per cent. only, could read and write in a tolerable manner. Comparing this with what M. Francillon, an interne of the Cantonal Hospital at Geneva, reports, the difference is great indeed. He says, in the Canton de Vaud, with which he is well acquainted, almost the only patients who cannot read and write are foreigners, and that the sick children are regularly taught, even when confined to their beds, the others being formed into classes under an instructor. Regular libraries are kept up in the Hospitals at the expense of the administration. Applying himself to the case of general

Hospitals (in special and childrens' Hospitals the matter may be still easier dealt with), M. Aubert finds that of the 600 male patients of the Hûtel-Dieu of Lyons, there are about 140 from the ages of 15 to 50 who stand in need of elementary instruction. But of these he calculates that three-fourths must be eliminated as not being able to pursue a system of regular instruction, on account of the nature of their disease, the duration of their residence, or their unwillingness to be taught. There remain, then, only thirty-five individuals to whom regular and sufficiently prolonged instruction might be given, and although this is a very limited number, it is sufficiently large to give employment to a teacher, especially as some of those returned as able to read and write are very susceptible of improvement in these accomplishments. Of the 500 female patients in the Hôtel-Dieu, the numbers between the ages of 15 and 50 who cannot read and write are greater, amounting to sixty-three, after a similar elimination to the above has been operated. Thus, there are sixty-three women and thirty-five men who are in a condition for receiving daily instruction; and as the population of the Hospital is constantly being renewed, the annual number may be reckoned at between 300 and 400 persons to whom reading, writing, and the ruliments of arithmetic might be taught with some good results. Whether immediately realisable or not, M. Aubert deems this proposition worthy of the attention of Hospital administrations.

We do not think that our British homocopaths have advanced so far as to set up insurance offices promising more favourable terms for those who eschew the worn-out orthodox system. In the United States, however, greater enterprise prevails; but still, according to a correspondent of the Baston Journal, even there outsiders are dealt with in a liberal fashion. Mr. Williams put the two following questions to the Secretary of the Homosopathic Mutnal Life Insurance Company, Broadway, New York":-1. If a person had hitherto always been under other than homosopathic treatment when sick, would your Company charge a larger premium than if he had always been a homopopath? 2. Having been insured as a homopopath, if circumstances should render it necessary for him to come under other treatment-while travelling, for instance-would that, if discovered by the Company, vitiate the policy? The reply was consolatory enough to satisfy any insurer-

"We make no heavier charges upon those who have not used homeopathic remedies, but have agreed to also for the future, than for those who have always been homeopaths. When a party insures with us as a homeopath we of course expect him to live up to his agreement, but we never look for or get a prayed to the course of the c

Referring to the rules, that relating to this last point reads as follows:-

"Change of Prestite.—We amox no penalty to the change from homosopathy to any other system of practice, except that, where such change is permanent, we reserve the right to charge, thereafter, non-homosopathic rates of previous. On this subject we say to our homosopathic customers, If you are taken sick, when you cannot call in your own Physician or another homosopathic Physician worthy of your confidence, do, in such an emergency, what your own sense of fitness dictates, and we shall be satisfied. We believe that you can be safely trusted to preserve your own life by the best means whith your reach." Like in most homosopathic transactions, we have here a convenient, comprehensive clasticity. No non paramus nonsense.

PARLIAMENTARY.—THE BUDGET—TAX ON MATCHES—METROPOLIS WATER BILL—ANATOMY ACT—SMALL-TOX AT CHICKESTER— CAPITAL PUNISHMENT—ARADONMENT OF THE MATCH-TAX.

On Thursday, the 21st inst., in the House of Commons, Mr. Low introduced his very unpopular budget. Its main points were that he required for the increased expenditure on the national defences an additional sum of £2,800,000. This he proposed to obtain by putting a tax on matches, which he calculated would yield £55,000; by rating the Incompetax

from £1 13a, 4d, to £2 4a, per £100, by which he would get £1,000,000; and the remainder he expected to accrae from alternations in the Legacy Succession and Frobate Duties. The legacy and succession duty payable in the direct line is to be raised from 1 of 2 per cent. Lat in a brother's line from 3 to 33 $^{\circ}$ per cent. Seldom has a budget been received with greater disfavour. A storm of hostile criticisms met it on all sides.

Dr. Playfair, however, supported the tax on matches partly on the ground that it would prevent a considerable proportion of fires, but also "because it would tend largely to remove that horrid disease which was the worst that Medical men had to

deal with—namely, disease of the jaw-bone."

The Metropolis Water Bill was read a second time

The Anatomy Act (1832) Amendment Bill passed through committee

On Friday,

An hon. member, in the absence of Major Walker, asked the Secretary for War whether it was the case that small-pox is now prevalent in the town of Chichester; whether the Royal Sussex Militia was about to assemble there for training; whether, owing to the insufficiency of the barrack accommodation, a considerable portion of the men must be billeted in the town; and, whether it would not be better under the circumstances to move the regiment to Aldershot Camp.

Mr. Cardwell replied that there had been some cases of small-pox at Chichester, and the question of the best mode of dealing with the matter was now the subject of correspondence

and consideration.

and consideration.

Mr. A. Johnston called attention to the expense imposed on
the public by the expenses of the Charity Commission; and,
after relating some instances of flagrant abuses of charities,
moved a resolution in favour of imposing an income-tax on moved a resolution in favour of imposing an income made charity funds to defray these expenses.

After some remarks from Sir F. Goldsmid,
The Chancellor of the Exchequer cordially agreed in the

propriety of taxing charities, and consented to the motion with the omission of the words specifying the income-tax as the particular mode of putting them under contribution.

ticular mode of putting them under communicon.

After considerable discussion, the preliminary resolution on
the match-tax was carried by a majority of 113 to 51.

The Public Health (Scotland) Act (1867) Amendment Bill

was read a second time. On Monday,

On Monday, Mr. Gilpin gave notice that on Friday, May 12, he would, on the motion for going into Committee of supply, call attention to the report of the Royal Commission of Capital Punishment, and move that, until the decision of the House had been taken on the report, the Home Secretary should be guided by the recommendations in which the Commissioners were unanimous

recommendations in which the Commissioners were unauthous in exercising the Royal prerogative of mercy.

On the motion for going into Committee of ways and means, Mr. White submitted the following resolution:—"That, in the opinion of this House, the additional taxation proposed by her Majesty's Government will entail burdens upon the people

which are not justified by existing circumstances."

After a brilliant debate this was negatived by the narrow majority of twenty-seven in a house of about 500 members.

On Tuesday, on Mr. Disraeli giving notice that on Thursday he should move "That the financial propositions of the Government are not satisfactory, and it is expedient that her Majesty's Government should reconsider them,

The Chancellor of the Exchequer announced his intention of abandoning the match-tax, but stated his intention of persisting in asking the House to go into committee for the purpose of considering the resolutions before it on the income-tax and the legacy and probate duties.

A GOOD EXAMPLE. - The London Society of Composi-A GOOD EARNIE.—Into LOUISON SOCIETY OF COMPONENTS OF THE PROPERTY OF THE PROPE 310 out-patients.

A PUBLIC-HOUSE WITHOUT THE DRINK .- The following is from a signboard of one of several houses established with some success in Liverpool :-

"A publis-house without the drink,
Where men may read, and smoke, and think,
Then sober home return.
A stepping-stone this house you 'Il find;
Come, leave your rum and beer behind,
And truer pleasures find."

HOSPITAL REFORM.

AT a meeting held in the rooms of the Royal Medical and Chirurgical Society, on April 20—Sir Wm. Fergusson, Bart,

Chirurgical Society, on April 20—Sir Wm. Pergusson, Bart, in the chair—a report was presented by the Committee appointed (some time ago now) to consider the above subject. The Caranxax said that this meeting was of interest bot to the Profession and to the public. At a former meeting the endject of Hospital reform had been first publicly model. A committee was then appointed, which had been at work ever the contraction of the public since, and now presented unear report. From a very counter the amount of work done. It was important that some scheme should be laid before the world, and this was now done. It would be impossible for Medical men to do the work they sow did without the aid of the charitable public, but it was impossible for Medical was to do the work they sow did without the aid of the charitable public, but it was impossible for the content of the conte and without the an or the enarrange public, but it was impa-sible to imbue them with the same riews as those entertained by the Profession. It would, therefore, be necessary to pro-ceed cantionally if we desired to dispense their charity better. Certainly, if this could be done, it would be for the good of all. The Profession had now to step out of their own circle, in which was a certain degree of unanimity, to address the outer

which was a certain degree or manimary, to address needer world, in which they might find there was nothing of the kind. Dr. Herwood Shith having read the report of the Com-mittee, it was moved by Dr. Meadows, and seconded by Dr. Hawkeller-"Thu it be received and adopted."—This was carried.

Dr. HAWKESLEY then proceeded to move the first resolution "That an improved administration of Poor-law Medical relief, "That an improved administration of a cover-isw account of in accordance with the Metropolitan Poor Act of 1867, is essential to the reform of the out-patient administration of the metropolis." He thought it well that the Profession should cone polis." He thought it well that the Profession should come forward at the present moment, when pauperism was excluded much attention. Human nature had, he thought, a tendency to much attention. progress backwards, not upwards. Charity, as ordinarily disprogress backwarus, not upwarus. Churity, as ordinary or pensed, helped this, and that they must try to mend. Our Medical institutions fail on account of the numbers seeking relief, and in them the wrong class were best attended to. He instanced certain cases in point, and showed how the particulars of Mr. Gathorne Hardy's Bill had not been fully carried out.

Dr. Rookse, in seconding the motion, said he had collected statistics, which he gave in detail, of the number receiving gratuitous Medical relief. In London alone upwards of million were so. By this system upwards of £51,000 and the throught of the Medical Profession in London. He thought the real way to reform was through elevating the status of the Poor-law Medical officers.—Carried nem. con.

Mr. E. HART, in moving the second resolution-" That, in furtherance of the above resolution, and in order to limit the furtherance of the above resolution, and in order to must be panperising tendency of the present system of gratuitous relief at Hospitals and dispensaries, all free dispensaries should be under the control of the Poor-law authorities, so that a projet system of inquiry may be instituted previous to the administra-tion of gratuitous Medical relief "-said State aid should rebe interfered with by charity which asks no questions. Mr. Hardy's measure was passed, Government was inclined to take a liberal view of what ought to be done in the way of relief. Then were sown the seeds of future good. Bodies called into power then had erected those asylums which had enabled us to face the present epidemic and that of relapsing enabled us to face the present epidemic and that of the public funds of the crowd of out-patients now to be seen at our Hopitals. To this end, he thought all free dispensaries should be abolished.

Mr. CUBGENVEN seconded. He thought the present Government did not seem inclined to move in the matter; it should,

therefore, be nrged upon them.

Mr. Loan thought all free dispensaries should be done away with. It was the aiming at distinction on the part of Medical men themselves which was at the root of the evil. The Frofession injured itself.

Mr. Janez Hood said they were asking a body in which, at their own showing, they had little confidence—viz., the Postlaw Board—to co-operate with them. Would that be a good thing? He was quite sure governors would not give up existing privileges.

Dr. Ross agreed with the sentiment that all free dispensaries should be abolished, but disagreed with the mode in which the motion was framed. He objected to the extension of the power of the Poor-law Board. It would be far better to try to get a Government Board of Medical Relief at once.

Mr. HOLMES said they must either accept the motion as it stood or reject it. If the Poor-law Board was not trustworthy, they must try to make it better.

Dr. Percy Lesije also objected to the combination of the poor-law and voluntary systems. They could not give complete power to the former.

Ultimately the motion was carried.

Dr. FORD ANDERSON moved the third resolution-" That, in order to encourage a feeling of self-respect among the working-classes, and that they may secure for themselves during health the necessary Medical attendance in sickness, it is desirable that the system of provident dispensaries should be largely extended, both by conversion of the present free dispensaries, and by the foundation of others." He said that, in London, there were only ten provident, as compared with sixty free, dispen-saries. Meantime, the free monopolised both patients and subscriptions. The provident system encouraged forethought and independence; it tended to raise wages, and the machinery employed was suited to prevent imposition. Further, the Practitioners in the neighbourhood did not suffer, and there was no delay in obtaining relief. The Medical men were also paid for their work.

Mr. Spences Wells seconded. If the Profession generally supported the measure it would do much to overcome the evils complained of. He could hardly believe that there were people who could not pay a penny a week, they not being paupers. Giving a penny when they were ill was quite another thing to giving it when they were well.

Mr. Macilwain's own experience confirmed what had been All natural difficulties might be got over by mutual

sacrifices of opinion.

Dr. Nisson Hanny said they must consider the whole matter, and not parts of it merely. They proposed to continue the greatest abuses of all the ont-patient departments of Hospitals which they had been appointed to consider. Instead of reforming them, they attacked dispensaries. Were these allowed to remain provident dispensaries would be at a disadvantage, for no subscriptions would come to them. Marylebone and the Leicester experience both confirmed this. The expenses would be increasing with gradually decreasing abscriptions. The Hospitals were the chief sinners.

In reply to Dr. Morell Mackenzie, Dr. Anderson said that subscriptions.

they permitted attendance in the event of illness, if a certain sum was paid down at once.

The resolution was carried.

Mr. Hotaza, in moving the fourth resolution—"That, for the reasons given in the preceding resolution, and in order to improve the clinical teaching of the out-patient department of the general and special Hospitals, it is very desirable that the present unrestricted system of gratuitous relief at those insti-tutions be curtailed, partly by the selection of cases possessing special clinical interest, and partly by the exclusion of those who, on social grounds, are not entitled to gratuitous Medical advice"—said out-patient departments were to be reformed chiefly by carefully attending to those seen. He had often found patients ignorant of the name of the Medical man who was supposed to see them. Nevertheless, it was not an institu-tion to be swept away; it was too valuable for teaching.

Dr. Anstre seconded. He said most of the cases seen were useless for every purpose. Most patients he saw had simple caturth. There was no time for careful diagnosis; and yet, retwill discuss the saw had simple catured. notwithstanding, it was fearfully exhausting work. First teaching to students should be exceedingly careful.

The resolution was carried.

Dr. STALLARD moved the fifth resolution-" That the practice of receiving payments for medicine or Medical advice from the out-patients of Hospitals is undesirable." He was much opposed to small payments at Hospitals; it was cheating the general Practitioner.

The motion having been seconded, Dr. LESLIE moved, as an amendment, "That out-patient departments ought to be placed on the same footing as provident dispensaries."

Dr. NELSON HARDY seconded this, but it was ultimately

ithdrawn. Dr. Morell Mackenzie said this amendment would certainly tend to diminish numbers. They ought to have the whole

scheme under consideration, not bits of it. Dr. Ross said that by payment and reduction of the number of cases seen they would certainly increase the number of those attending Hospitals who could afford to pay a general

Practitioner. The motion was carried.

Dr. POLEOCK, in moving the sixth resolution-"That the governors of Hospitals ought in all cases to provide some honorarium for the staff of the out-patient department "--said every man was worthy of his hire. Paid labour was always better than unpaid, and the time at which patients were seen necessitated the giving up of paying work. He did not propose that an equivalent should be given—that would be hardly possible—merely an honorarium.

Mr. TEEVAN seconded. He said this was no experiment, it was regularly done on the Continent. It would be beneficial to the Hospital, as it would keep many good men about it; besides, it would compel men to be more punctual.

The motion was carried.

The motion was carried.

Dr. Buzzard proposed the seventh and last resolution—
"That a committee be appointed to memoralise the President
of the Poor-law Board, the governors of the various metropolitan Medical charities, and the Society for Organising Charitable Relief, to assist in carrying the foregoing resolutions Charitable Redict, to assist in carrying the toregoing resolutions into effect, and to take such other steps as they may think requisite." And this having been seconded, the following were nominated:—The Chairman, Dr. Burrows, Mr. Bowman, Dr. Guy, Dr. Anderson, Dr. Stallard, Dr. Meadows, Dr. Rogers, Mr. Hutchinson, Dr. Policek, Dr. Claustru, Dr. Meadows, Dr. Hogers, Mr. Hutchinson, Dr. Policek, Dr. Clapton, Mr. Curgenven, Mr. Holmes, Dr. Heywood Smith, Dr. Stewart, Mr. Hart, Dr. Hawkesley, Mr. Gascoyen, Mr. Spencer Wells, Dr. Buzzard, and Mr. Fairlie Clark.

After a vote of thanks to the chairman the meeting adjourned at a late hour.

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the

under	nentto	неа л	Astr	cts.							
	-	No. of Cases week ending									
Districts.	Mar. 18.	Mar. 25.	April 1.	April 8.	April 15.	April 22.	April 22. Sent to Hospital.				
West-											
Chelsea	. 6	6	6	4	9	P	-				
St. George, Hanover-		1				1					
square	. 19	10	11	12	16	19	12				
St. James, Westminster .		4	- 4	8	8	6	6				
Paddington	. 8	1	P	8		24	8				
Nonth-		65		122	102	121	P				
			44 26			67	26				
Islington	0.1	49 24°	26	45 31	58	46	24				
Hackney	31	24	29	31	F	40	24				
City of London	13	13	13	7	16	14	7				
St. Giles-in-the-Fields	13	5	8	9	11	2	9				
77-11		2	3	4	8	8	8				
St. Luke's		12	25	20	20	- 0	-				
EAST-	10	12	20	20	20	-	_				
Whitechapel	15	33	15	19	14	17	P				
Poplar		P	11	1	2	1	-				
SOUTH-	1	'		1							
St. Mary, Newington	. 9	28	23	27	34	37	23				
St. Olave, Southwark	1	11	- 6	3	3	3	1				
St. George-the-Martyr,						1					
Southwark	. 5	P	9	19	30	31	12				
Lambeth		33	17	32	24		-				
Clapham		22	13	40	28	23	8				
Wandsworth		5	10	13	6	6	1				
Putney		3	1	2	1	P	-				
Streatham		3	3	4	7	2	P				
Camberwell		4	4	8	2	P	_				
Greenwich		-	-	-	P	P	_				
Lowisham	2	P	2	4	2	?	2				
Plumstead	4	6	4	19	6	3	2				

· Return imperfect.

The annual meeting on behalf of the Birmingham Dental Hospital was held last week. The Hononary Sceretzer read the thirteenth annual report, in which the Committee stated that the institution was last gaining ground in reputa-tion and usefulness, and ranked as one of the first of the minor Medical charities of the town. An annual subscription-list of some £250 per annum would enable the Medical staff, through the Committee, to carry out and develope plans long contemplated for the more efficient working of the institution.

REVIEWS.

Os the Genesis of Species. By St. GEORGE MIVART, F.R.S.

1871. London: Macmillan and Co. On the Origin of Genera. By EDWARD D. COPE, A.M., Secretary of the Academy of Natural Sciences of Philadelphia. 1869.

Philadelphia. London: Trubner and Co. Essays on Daricinism. By Thomas R. R. Stensino, M.A., late Fellow and Rector of Worcester College, Oxford. 1871.

London : Longmans, Green, and Co.

Tax works whose titles stand at the head of this article are And worse whose tutes stant at the head of this article are upon the subject of the control of the state of t approximation we nave latery made towards the solution of see problem. By what combination of natural laws does a new common nature appear upon the scene of realised existence? i.e., How is an individual embodying such new characters produced?—we are mainly indebted to the invaluable labours and active brains of Charles Darwin and Alfred Wallace;" and allows that the conceptions of most of their opponents are "more or less crude"; but, at the same time, he feels that "the more or reas crune; but, at the same time, he reas that the special Darwinian hypothesis is besset with certain scientific difficulties which must not be ignored," and some of which he thinks are insuperable. He freely admits that the theory (should be not say, bypothesis;) is, perhaps, the most interesting that has been promulgated during the present century; that it groups together a vast and varied series of biological facts, and even paradoxes, and more or less clearly explains them; that it throws light on the more singular facts relating to the geographical distribution of plants and animals; that it serves to explain the circumstance that often in adjacent islands we find animals closely resembling each other, while, if Islands we had animus closely resembling each other, while, it these islands show signs of very ancient separation, tho animals inhabiting them exhibit a corresponding divergency; that rudimentary structures and the singular facts of "homology" are capable of explanation by means of this theory; that it clucidates the process of development, during the early stages of which animals closely resemble other animals; and that of whose animals crossry resemble cuter authans; and shat thus, and thus alone, can we explain the extraordinary phenomenon of mimicry, in which one animal bears a special recombinance to some other (and usually stronger) animal, or to a plant, as in the case of the leaf inacet, the walking-stick nsect, etc.

But while making these important admissions, he maintains and it is the object of his book to prove-

"That 'natural selection' is incompetent to account for the

incipient stages of useful structures.
"That it does not harmonise with the coexistence of closely similar structures of diverse origin.

"That there are grounds for thinking that specific differ-ences may be developed suddenly, instead of gradually.
"That the opinion that species have definite, though very dif-ferent, limits to their variability is still tenable.

"That certain fossil transitional forms are absent which might have been expected to be present.

"That some facts of geographical distribution supplement other difficulties. "That the objection drawn from the physiological difference

between 'species' and 'races' still exists unrefuted.

between species and races suit exists distributed.

"And that there are many remarkable phenomens in organic forms upon which 'natural selection' throws no light whatever, but the explanations of which, if they could be attained, might throw light upon specific origination." P. 2 daths, all

might throw light upon specine origination. — 1.21.

Professor Cope's "fragmentary cseay," as he modestly calls it, is written in too strictly a scientific style for any but professed zoologists. His pamphlet—for it is nothing more consisting of only eighty pages-contains five chapters, with the following headings

1. Relations of Allied Genera.

2. On Retardation and Acceleration in Generic Characters.

3. Relations of Higher Groups.

4. Of Natural Selection. 5. Of Epochal Relations.

He adopts the Darwinian hypothesis, and combines it with certain views of his own, which are laid down in his second

Mr. Stebbing is an out-and-out Darwinian, and belongs to the third and very small class of clergymen who, according to

Huxley,(a) study scientific matters thoroughly and in an honest spirit, and are not afraid of expressing or even preaching their opinions. All honour to such men! If they were more com-

opinions. All monour to such men: If they were more com-monly found in our pulpits, intellectual laymen would seen become better Churchmen than they now are. His "Essays on Darwinism" Consist of a series of memoirs, of which the most important—namely, "Darwinism," "The Noachian Flood," "The Lapse of Time," "Imperfection of the Geological Record," and "Instinct and Reason"—were the Goological Record, and Institute and Accept and the read before the Torquay Natural History Society and the Devonshire Association. As Mr. Stebbing very truly remarks, the opinions passed upon "The Origin of Species, and the allusions made to it in common conversation and in popular lectures, often testify to nothing except supreme ignorance of its general merits. While some content themselves with ridiculing views which they are incapable of grasping, others str up the odium theologicum, and declare that Darwinism and Christianity are antagonistic. It is with the view of counter-acting these false views, and of enabling the public to judge for themselves what is true and what is false, that Mr. Stetbing originally delivered these lectures, and has subsequently published them. As he makes no claim to originality, and confine himself, for the most part, to the clearest and simplest arguments, we shall content ourselves for the present with expressing a wish that his unassuming little volume may be very

ing a wish that his unassuming little volume may be very widely diffused through "the dark places of the earth," and that it may effect the object which led to its publication. We now return to Mr. Murat's book, which will form the price de reintenee of this article, and shall commence with a price de reintenee of this article, and shall commence with a servery than the contraction of the price de reintenee of this article, and shall commence with a servery than the article and the price de reintenee of the servery than the article and the servery than the article and the servery than the serve to be useful at once; but that this is not the case. What, for example, he asks, could have been the use of the very minute extra length of the neck of the first giraffe, that by straining itself had succeeded in obtaining an infinitesimal addition of stature? And why should not the struggle to reach the leaves of high trees similarly affect many other vegetable-feeding ungulates? He then refers to the flat-fishes, which, as everyone knows, have in their adult form both eyes on one as everyone knows, have in their adult form both eyes on we side of the head, while in the young they are situated, are usual, one on each side. " If the transit were gradual, the how such transit of one eye a minute fraction of the journey towards the other side of the head could benefit he individual is, indeed, far from clear." Moreover, these flatdividual Is, litueed, far from ciear. Moreover, tness ma-fishes are, geologically speaking, apparently of recent origin, and hence have not had sufficient time to effect so im-portant a change. Another difficulty suggested by Mr. Mivart "seems to be the first formation of the limbs is the higher animals. The lower vertebrata are perfectly limbless; and if, as most Darwinians would assume, the primeval vertebrate creature was also apodal, how are the preservation and development of the first rudiments of limbs to be accounted development of the first running to the accountry for, such runiments being infinitesimal and functionless?"

The development of whalebone (baleen) in the mouth of the whale is another of his difficulties. "It is obvious that if this buleen had once attained such a size and development as to be at all useful, then its preservation and augmentation within serviceable limits would be promoted by natural selection alone. But how to obtain the beginning of such useful development?" Everyone not utterly ignorant of comparative anatomy is aware of the special provision that exists in the young kangaroo by which it may receive the milk injected into its mouth by the mother without being choked by the passage of the fluid the mother without being enoxed by the passage of the muss into the laryna-the laryna being so clongated that it rises up into the posterior end of the masal passage. How did this clongated laryna arise? If by very alow gradation, how did the young kangaroo, during the period of this clongating, escape suffocation ?

In these days of aquaria, most of our readers probably have seen the curious structures called "Pedicellaria," which are attached to, and seem to grow from, the bodies of the Echinide or sea-urchins. Each of these structures consists of a long stender stalk, which sways about in various directions, and terminates in three jaws, which are constantly opening and terminates in turner paws, when are commands opening, as shutting with a snapping action. If, as has been assumed, in the absence of a better hypothesis, the use of these organisms is to remove from the body of the sea-methin any foreign substance that might be hurtful to it, "what would be the utility of the sea-methin and the state of the of the first rudimentary beginnings of such structures, and how

⁽a) "The clergy are at present divisible into three sections: an immose body, who are ignorant and speak out; a small proportion, who know and are silent; and a minute minority, who know and speak according to their knowledge."—"Lay Sermons," etc., p. 67.

could such incipient buddings have ever preserved the life of a single echinus

Passing over the difficulties presented, according to the author, by the development of colonr in certain ages, by the hood of the cobra, and the rattle of the rattlesnake, we come to his argument, as based on the formation of the eye and the ear in the higher animals; and, as we think that there is more weight in this than in any of his other objections, we shall quote his own words :-

"The eye," he observes, "is formed by a simultaneous and corresponding ingrowth of one part, and outgrowth of another. The skin in front of the future eye becomes depressed; this depression increases, and assumes the form of a sac, which changes into the aqueous humour and lens. An outgrowth of brain-substance, on the other hand, forms the retina; while a third process is a lateral ingrowth of connective tissue, which afterwards changes into the vitreous humour of the eye.
"The internal car is formed by an evolution of the integu-

ment, and not by an ontgrowth from the brain; but tissue in connexion with it becomes in part changed, thus forming the auditory nerve, which places the tegumentary sac in direct communication with the brain itself.

"Now, these complex and simultaneous co-ordinations could never have been produced by infinitesimal beginnings, since, nntil so far developed as to effect the requisite functions, they

are useless."-(Pp. 61 and 52.)

He adds, with regard to the ear, that "in its interior there is an immense series of minute rod-like bodies, termed the fibres of Corti, having the appearance of a key-board, and each fibre being connected with a filament of the auditory nerve; these nerves being like strings to be struck by the keys-i.e., by the fibres of Corti. Moreover, this apparatus is supposed to be a key-board in function as well as in appearance, the vibrations of each one fibre giving rise to the sensation of one particular tone, and combinations of such vibrations producing chords.

" Now, it can hardly be contended that the preservation of any race of men in the struggle for life ever depended on such an extreme delicacy and refinement of the internal ear. How, then, could either the minute incipient stages, or the final perfecting touches of this admirable structure, have been brought ceivable directions of an organ, suitable to enable the rudest savage to minister to his necessitics, but no more?"—(Pp. 63 and 64.) about by vague, aimless, and indefinite variations in all con-

These are some of the most important facts which Mr. These are some or the most important facts which air.

Mivart has brought forward, as inconsistent with the origination of species by "natural selection" wholly or mainly.

Mr. Stebbing, in an article entitled "The Genesis of Species,"

which is in reality a review of Mr. Mivart's volume (obviously written in great haste, while his essays were going through the press), endeavours to refute the above-mentioned arguments, by maintaining that the author has not given sufficient prominence to Mr. Darwin's views regarding the importance of "variation," and that he attributes the origin of species to " natural selection" alone. We cannot think that Mr. Mivart has laid himself open to this charge, and freely admit that he has brought forward difficulties which, in the present state of our knowledge, we cannot explain.

In his third chapter the author endeavours to show that natural selection does not harmonise with the coexistence of closely similar structures of diverse origin. For example, he shows, with regard to the sustentation of the body in the air, that it is accomplished by very different structures of the limbs in the bat, the bird, and the flying dragon, while in insects the wings are not even modified limbs at all. Again, how different is the arrangement of the poison apparatus in serpents, the aculeate hymenoptera, scorpions, spiders, and

myriopods.

In the next chapter Mr. Mivart endeavours to show that specific differences may be developed suddenly instead of gradually. In this opinion he is supported by Professor Huxley, who observes that "we greatly suspect that Nature does make considerable jumps in the way of variation now and then, and that these saltations give rise to some of the gaps which appear to exist in the series of known forms." Mr. Darwin binuself allows that sudden modifications may occur in domestic snimals, and quotes several cases. Why, then, is it "a false belief" (as he asserts) that natural species have often originated in the same abrupt manner? Mr. Mivart refers to the wonderfully folded teeth of the labyrinthodonts, the aborted finger of the potto. the wings of birds, the tendrils of certain climbing plants, etc., as cases that could not have been produced by minute modifications. He likewise shows that certain forms which were once supposed to be especially transitional and intermediate-as. for example, the Madagascar ayo-aye (a lemur formerly supposed to be allied to the squirrels)—are really by no means so, while the general rule that the progress of form has been from the more general to the more special is shown to present from the more general to the more special is shown to present remarkable exceptions in the recently extinct macranchemia, which unites "in one organic form both artiodactyle (even-toced) and perissodactyle (odd-toced) characters, and that in a manner not similarly found in any other known creature, living or foor!] manner not similarly found in any other known creature, living or fossil." Again, no armadillo new living presents nearly so remarkable a speciality of structure as that possessed by the extinct glyptoden, in which the joints of the spinal column were no fused together as to convert it into a rigid cylindrical rod. "In a similar way the extinct machairedons, or sabre-toothed tiger, is characterised by a more highly differentiated and specially carnivorous dentition than is shown by any predaceous beast of the present day." For the singular details of this remarkably carnivorous dentition we must refer to page 111 of Mr. Mivart's volume

We must pass without comment over the chapters devoted to the other objections to the theory of natural selection, as they are of much less weight than those we have already noticed, some of them being, as our author admits, "not insurmount-

Mr. Mivart tells us that he was not originally disposed to-reject Mr. Darwin's fascinating theory, but that the cumulative argument—as laid down in this volume—that arose against the prevalent action of "natural selection," was, to his mind, conprevatent action of "natural selection," was, to his mind, con-classive. At the same time he fully admits that "natural selec-tion" acts, and must act, and that it plays in the organic world a certain, though a secondary and subordinate part. We cannot conclude our notice of this extremely interesting

colume without a reference to the number and beauty of the illustrations. We may add that the work is intended for general readers as well as professional naturalists; and that consequently all scientific terms are popularly described, and notopics are introduced to which in this over-fastidious age the most sensitive person could object. It may safely lie on any drawing-room table.

A Treatise on Localised Electrisation, and its Applications to Pathology and Therapeutics. By Dr. G. B. Ducherne (de Bonlogne). Translated from the Third Edition of the Original by Herners Theore, M.D., Medical Superintendent of the National Hospital for the Paralysed and Epileptic. Part I. London: Hardwicke. Pp. 322.

THE present valuable translation of Duchenne's great work ans procent valuable translation of Ducksenic's great work has really appeared before the original, owing to the interrup-tion due to the siege of Paris. That such a translation should have been so long delayed, and should at last have appeared by private enterprise, if creditable to that enterprise, is not quite so much so to our great society instituted for such purposes
—the New Sydenham Society. This portion of the work consists, in considerable measure, of descriptions of different forms of electric and galvanic apparatus; but it also contains some exceedingly interesting facts relating to physiology and thera-

One important subject which engages attention here is Medical batteries. Of course the great thing for such purposes is to secure a battery which will work as long as possible, with the steadiest possible current. Several batteries are described by Duchenne; but those most commonly used in this country are symmetric jour those most commonly used in this country are Schorer's for the interrupted current, and, perhaps, Muribed's for the constant, but only if required to be stationary. It is made by Elliott Brothers, West Strand. Fovanc's battery, made by Weiss and Co., now that it has been modified, is the best countries. best constant-current we know for portable purposes. Stöhrer's constant-current battery is in use in some of our Hospitals. The electro-magnetic boxes can at all times be given to patients

to play with.

Duchenne, contrary to the German opinion, upholds the virtues of induced as opposed to constant currents. "Faradic (i.e., induced) electricity," says he, "which in no way alterathe tissues, is essentially Medical electricity."

For the application of electricity, Duchenne uses two kinds of rheophores or conductors; one set like those in common use —viz., hollow metallic tubes fitted to receive a wetted sponge or a corresponding broad flat metallic surface covered with moist leather. These, distributing the galvanic force over rather a wide area, are used for indirect muscular faradisation. The others are also metallic, but olivary or conical, and are used for the direct stimulation of the smaller muscles or of indivi-

Although the induced current does not give rise to the painful chemical effects of the continuous current, still, without certain precautions, a good deal of discomfort is caused to the patient. Wetting is the first and most important precaution; the next is to break the current, which with most instruments is easily done, until the rheophores are in situ. In dealing with paralysed limbs, an important question arises. How best to excite a certain muscle? That can be done in two ways—either by directing the current immediately into its substance, or by the current immediately into its substance, or by stimulating the nerve by which it is supplied. If only a portion of a muscle is to be excited, the former is the better plan; if the whole of it (especially if large), it is better to act through the nerves. But this last implies a nicety of anatomical knowledge not possessed by all, especially with regard to the emergence and not possessed by all, especially with regard to see energence ame immersion of nerves. For this purpose the plates of the necrona-system by Hirschfeld are invaluable. Dashenne's directions for the faradisation of individual organs are too extended and minute to te recapitulated here with benefit; but the whole book is staffed as full of facts, many of them new to our readers, that we shall again refer to it in fuller detail.

GENERAL CORRESPONDENCE.

OUT-PATIENT HOSPITAL REFORM.

LETTER FROM DR. ALFRED MEADOWS

[To the Editor of the Medical Times and Gazette.]

Sin,-You have kindly allowed me on several occasions to appeal to the Profession for funds to carry out the work of the committee appointed to inquire into the subject of out-patient Hospital administration. The response I have met with has hitherto been very unsatisfactory, yet most persons see that no question can possibly affect the interests of the Medical Profession more directly than this, and especially those members of the Profession who are engaged in general practice. It is their interest, far more than that of the staffs of Hospitals and dispensaries, which is at stake, and if they do not come forward to help the work of the committee they will have no locus standi for complaint in future.

At the meeting which was held on the 20th inst., the late mmittee, having finished its work and presented its report, committee, having insistent its work and presented its report, was dissolved, and a smaller committee appointed to carry out the resolutions which were adopted by the meeting. The former committee has, however, some habilities for which I suppose I am responsible; and If my payment of the debts could accure effective reform in our out-patient departments, I would gladly bear the expense, for I believe they are at present a gross injury to the Profession, and a scandal to the public. But there is much mork to be done, and a seadon to the punner.

But there is much mork to be done, and work, too, which will involve expense. The experience of the late committee in this respect will undoubtedly act as a warning to the present, and it cannot be expected that they will both work and pay. I do not speak now by the authority of the committee; but for mynot speak now by the authority of the committee; our ior my-self I can only say that, unless some better response is made to this appeal than has been accorded to my former letters, I should strongly advise the committee to drop the whole cuestion. I am, &c., Alfreed Meadows.

27. George-street, Hanover-square.
P.S.—The chairman of the late meeting, Sir W. Fergusson, made an appeal for funds, the result of which was donations to the amount of ten shillings! Copies of the report of the committee may be had by applying to me and sending a few postage stamps.

WOMEN

LETTER FROM DR. FRANCIS R. HOGO.

[To the Editor of the Medical Times and Gazette,] Sir,-Recently, at a tedious midwifery case, after thinking over what women have to undergo at various times-the dis orders of menstruation, the discomfort of pregnancy, the risk to life and pain at delivery, the broken rest, the worry and bother of lactation, and the diseases that occur at the change of life—I took up Darwin's book and read that the chief distinction in the intellectual power of the two sexes is shown by man rising to a higher eminence in whatever he takes up than man runng to a moner eminence in wastever he takes up tann woman can attain, whether in poetry, painting, sculpture, nusic, science or philosophy, but that the greater tenderness and less selfishness of the weaker sex stand out in prominent contrast. Turning (in that restless, feverish state of mind a Medical man is in, after being out all day, with the prospect of being up all night) to other topics, the announcement that there were 150 candidates for six vacancies in the Governesses Benevolent Institution arrested my attention. The fortunate six will receive 20% a-year; but as for the others-daughters of officers in the army and navy, of clergymen, barristers, artists, merchants, bankers, and too frequently of Medical men, several over 70, blind, deaf, and paralysed—what is to become of these maiden ladies in their "age, ache, and penury"? Next, one of those hard, unkind, and cruel articles of the

Saturday Review on women coming under notice, set me wondering if the crabbed, ungenerous writer ever had a mother, s sister, or a daughter, or was that linus nature "nobody's FRANCIS R. Hoge, M.D.,

I am, &c., Royal Horse Artillery.

Royal Artillery Barracks, Woolwich, April 21.

THE SANITARY CONDITION OF EMS. LETTER FROM DR. N. GRISSR.

[To the Editor of the Medical Times and Gasette.] Srn,-I have lately received letters from Medical men as well as from old patients who want to take another course of waters as from old patients who want to take another course of waters at Ems, asking whether Ems was considered aske, because, according to English papers, infectious diseases had spread over the place from the Hospitab. Would you think it too great alliberty of an old reader of your journal if he ask you be favour of being allowed to say a few word on this subject. The Hospitals at Ems, erected for war-time, were all doed at the end of March. They have taken in only womded soldiers, and no sick once. I have eated as Medical inspector over the Hospitals at Ems and neighbourhood (from whol I have

intend to communicate some interesting cases to you soon during the winter, and consider myself, therefore, a person fit to contradict the above-mentioned false rurnour. The wellknown healthiness of Ems has not suffered in any way, neither

by war, Hospitals, nor prisoners. I am, &c., N. Geisse, M.D., Physician at Ems. Bad, Ems, Germany, April 22.

SCOTCH MORALITY. LETTER FROM DR. WM. WHITEYAW.

[To the Editor of the Medical Times and Gasette.] Sin,—If English readers of the Medical Times and Onsette:)
from the article on "Sootch Morality," in the number for April 15, that young people in Scotland who have "lored and wisely but too well "generally marry after the birth of a child, the inference, in my opinion, will be wrong. It would be a more correct representation of the fact to say that, after a liaison of a few months, when the woman finds herself pregnant, then usually a legal marriage is precipitately set about, in order to make matters as decent as possible. Twice I have been consulted as to questionable cases of pregnancy, the arrangement for an immediate marriage depending on an affirmative reply. This is the kind of "fornication" (intercourse before marriage) that frequently comes before kirk Sessions, prior to couples being allowed church privileges, such as sitting down at the Holy Communion, and also securing the baptism of the child when it arrives. There is a clerical jobe about a Scotch "character" in a fault of this kind attempting about a Sootch "character" in a fault of this kind attempting a defence, and telling his clergyman that he and the wife "were just rather late in getting married." So far as my observation in this parish extends, the girls who do not go married before the birth of a child have a diamal prospect of marricu ocrore the birth of a child have a diamal prospec we being married afterwards. I recollect at least thirteen instance of this kind of disappointment, the nationality of four of the women being Irish. Four of these women (one Irish) white mately married different men from their first loves, two of the wives keeping their first obliden in their present bouseholds. the other two leaving their bastard offspring with the maternal

relatives.

That a few men may marry to save themselves from the compulsory support of the child may be true; that other abscend to a distance to escape the burden is unfortunstily notorious. A farm servant binds himself to his master for laif a year only, and at the end of that time he may betake himself to fresh fields and pastures new. It is possible that power country laids are thus more templed to run way affer a fail-that well-paid city artistans, who by marrying their passes the reputation of them both. (c) One of the continuing

(a) "The town districts furnished only 9'1 per cent, of the births at illegitimate, while 10'1 per cent. of the births were illegitimate in the rusal districts." Seotch Registras-General's Summary for 18'0.

causes of illegitimacy everywhere is the lightness of censure with which the male defaulter is treated. This I have publicly declared on former occasions. A girl, seduced perhaps by the declared on former occasions. A girl, seduced perhaps by the promise of marriage, is in one sense ratined for life, while the promise of marriage, is in one sense ratined for life, while the offence clewhere. Soluction should be rendered a crime in law, and the man punished even with stripes. There is probably more consexion between the paltry 2s. 6d, a week commonly decreed by the Societh sheriffs for the support of a bastard haby and the emaciated condition of the support of a bastard haby and the emaciated condition of the weaking on whom it is intended to be spent than has yet once before the

I suggest that Scotch whisky rather than so-called Calvinistie gloom is one of the causes of northern immorality. Englishmen may be assured, Sydney Smith and his trephining operation notwithstanding, that Scotchmen are candid and love a joke, especially when the langh is not at themselves.
I am, &c., WM. Whitelaw, M.D., L.F.P. & S.G.

I am, &c., Kirkintilloch, N.B.

REPORTS OF SOCIETIES.

CLINICAL SOCIETY OF LONDON. FRIDAY, APRIL 14.

Dr. Burdon-Sanderson, President, in the Chair.

Dr. Broadbent read a paper "On Phosphorus as a Remedy in Skin Diseases," in continuation of a series of cases published in vol. ii. of the Society's Transactions, in which manganese and nickel were given as remedies for ansemis. If the action of remedies and poisons on the human organism is due to their chemical properties, substances allied chemically ought to have an analogous physiological and therapeutical influence, or the diversity in their action ought to be explicable on chemical grounds. In other words, chemical groups should form therapoutical groups. The investigation suggested by these considerations is as follows:—Given a distinct and well-ascertained physiological or therapeutical effect, can results in any way similar be obtained from the chemical allies of the body producing it? The group of which phosphorus is the head chemically, and of which arsenie is the chief representative in thorapentics, affords an opportunity for the application of this test. Its four members, phosphorus, arsenio, antimony, and bismuth, stand in the order named in regard to equivalent numbers, physical properties, and chemical energy; and their compounds with other elementary bodies form analogous series. Excluding bismuth, which, from its feeble affinities and tendency to form insoluble compounds, may be considered inert there is in the mode of action of phosphorus, arsenic, and antimony, as poisons, and in the tissue-changes they induce, a parallelism as remarkable as that of the chemical properties of parameters as remarkators as tunt or the enemical properties of these bodies, both in the energy and in the character of the physiological effects. The opportunity for bringing out further therapeutical parallelism is furnished by the well-known cura-tive action of arsenic in certain forms of skin diseases, such as ave section of arsente in certain forms of skin diseases, such as some forms of eczema and psoriasis. Cases of this kind were taken, and, instead of arsenic, phosphorus was given. Two grains of this substance were dissolved in oil, and from three grains or this substance were unsoulted in our and ir from three three times a day after monal. Six consumity in model were related, in all but one of which the phosphorus was decidedly beneficial. The most striking case was that of a girl, aged 12 years, who had had exerns of the scalp, extending down upon the forchead and face, for three months. She took first four. and afterwards five minims of the phosphorated oil for three months without any external application, when it was discon-tinued on account of sickness, the eruption having almost disappeared. Three weeks later it was resumed, and after a fortnight all that remained was alight redness and early finess of the scalp. With the aid of creaset and red oxide of mercury ointment, the skin ultimately became healthy. The coses of pseriasis were also six in number, two ont of which cases of peoriasis were also six in number, two ont of which
proved robelium, not only to phosphorus, however, but to
assentic, and all treatment general and local. In one case, that
less from the age of 4 or 6; the patches were large and
numerons, and had an inveterate look. He took the solution
of phosphorus in doese of from five to eight drops. On two
occasions the peoriasis completely disappeared without the nas
of any local -application, and a third turn with the sid of

creasote and ammonio-chloride of mercury cintment; but his attendance was irregular, and during the twenty-one months that he was more or less under observation, he contracted first gonorrhosa and then syphilis (aphrodisis from phosphorus ?), and he ceased to attend at the Hospital while the evolution of cutaneous syphilis in a "dartrous" subject was being watched. The object of the communication was not to hring forward a new remedy for skin diseases, but to exhibit one more analogy between phosphorus and arsenio. If phosphorus, however, were as manageable and as little disagroeable as arsenic, it would probably, according to Dr. Broadbent's experience, be found superior in efficacy.

Dr. Althaus said phosphorus as a remedy had been much neglected, partly because no preparation was found in the English Pharmacopoia. In the Prussian there was an oleum phosphoratum. Its disagreeable taste might be amended by phosphoratum. It clusargeous taste migrat so amented by giving it in a pill. A stronger solution than that used by Dr. Broadbent might be given. He generally began with one fortieth of a grain, and went up to half a grain. He remem-bered a difficult case of psoriasis cured by it. Dr. Laxonov Dowx would have liked to hear more of the

parallelism of arsenic and antimony. Antimony was not the real agent in the stablemen's hands, but rather the arsenic conreal agent in the sisonemen's names, our rather the arsenic contained in the impure antimonial preparation. He thought it would have been better to have given the parallel oxides.

Dr. William asked if amorphous phosphorus had been used.

DT. VILTHHIES SASCO II AMOTPHOUS phosphorus had been used.
DT. Sizush had seen certain cases rapidly and perfectly cured
by phosphate of iron—better, indeed, than by arsenic.
In reply, DF. BROADERT staid he merely wished to establish
the parallelism of phosphorus and arrenic. He had noted in
one case that the health improved rapidly under the Farmer. He gave phosphorus itself because its compounds with oxygen do not partake of the nature of the metalloid itself. Amor-

phous phosphorus is inert.

Dr. Frederick Sixins read notes of a case of Left Hemiplegia with total loss of the right eye. Mary S., 31 years of age, was admitted into the West London Hospital on September 12. was admitted into the West London Rospital on September 12, 1870. No history of sphilis or of any acute illness. Has had several healthy children. On February 19, 1870, after a short railway jonrney, labour came on at full time, with severe flooding, and ended in four hours by the delivery of a stillborn child. An hour after the patient was unconscious, having previously had severe pain in the right side of her head. Recovery ensued after some hours, and was followed by acute aching pains in the left arm and leg, both of which she was able to move for at least an hour after the return to consciousness, when they became perfectly paralysed. Gradual and permanent rigidity supervened, with startings and involuntary movements of flexion and extension, so that the hand became bent upon the limb, and could not be kept extended. Memory was much impaired. Three days after delivery active inflam-mation of the eye set in, resulting in total blindness. The speech was never much impaired. Sho now has the ordinary speech was never muon impaired. She now has the outside symptoms of hemiplegia, is able to walk with some little help, uses the muscles of the thigh to lift and advance the leg, the ankle-joint being fixed and immovable. There is headed-in on vertex and right side. Sensation of -palsied limbs normal. No pain in the disrased eye. General health good. No albumen in the urine. Heart sound. Mr. Fairlie Clarke reports that the diseased eye is quite lost, the globe bring shrunken and very soft, the lene speque, and the punil drawn downwards as if involved in an ulcer of the cornes. No active inflammation is going on at present. Improvement was confined to increased power over lower limb, disappearance of headache, and to a gain in general health and condition. The patient was able to walk without help, and the ankle-joint relaxed to some extent, but the foot was drawn up by the The treatment consisted of iron, indide of tendo Achillis. potassium, and good diet. The head symptoms disappeared potassium, and good free. The news symposium cosapprators under the use of bromist of potassium and iron in combination. Faradisation of the affected limbs was tried repeatedly, and often discontinued, as the head symptoms increased when the feeblest current was used. The illness was attributed embolon, a lot having formed in the left heart directly after the termination of labour, and travelled upwards as far in the the termination or involvi, and travelled upwards as are in the internal carotid artery as the origin of its ophthalmic branch. The loss of consciousness was the immediate cause of this obstruction, and the subsequent symptoms were due to red softening of brain substance and to cicatrisation.

Dr. BUZZARD asked if the sensibility of the face was affected, as lesion of the trigeminus might produce destruction of the eye. He thought the cause was embolism.

Dr. BROADBENT said it was not common to have embolism with loss of consciousness and paralysis coming on after. Loss of the eye might be due to inflammation of the cornea. rigidity of the paralysed parts was peculiar, especially the aftirmed relaxation in the morning.

Dr. BRUDENELL CARTER said lesions of the eve only followed certain lesions of the trigeminus at a point where there might be no sensory fibres. Sloughing from bodily weakness was ordinarily symmetrical. He thought the softening of the eve-

ball pointed to some deep-seated mischief.

Dr. Buzzako read a paper, for Dr. Royston Fairbank, of Lynton, "On the Use of Diritalis as a Topical Remedy." The Lynton, "On the Use of Digitalis as a Topical Remedy." The mode of application of digitalis adopted was to make a decotion of the dried leaves in the proportion of a small tea-spoonful to half a pint of boiling water, or a drachm of the tincture might be used in the place of the leaves. Flannels wrung out in the decoction were applied around the inflamed parts in the usual way. Another mode of applying the drug was to foment the part affected with hot water, and afterwards to gently rub in a little of the tincture. Dr. Fair-bank had used with great success these local applications of digitalis to cases of acute inflammation of the elbow- and knee-joints, and also to a patient suffering from severe inflamanation of the breast.

Dr. Buzzard also read a paper, by Mr. Lawson Tait, "On a case of Encephaloid Cancer of the Femnr treated by Electrolysis." The patient was a female, age 30, who suffered from encephaloid disease of the right femar. Subcutaneous injections of morphia, in quantities of twenty and twenty-four grains, were necessary to relieve her of her terrible agonics. Hydrate of chloral was also given in doses of from sixty to one hundred grains, but it was found that, unless combined with morphia, or with the administration of chloroform, it with morphia, or with the administration of chiefotolism, is failed to induce freedom from pain. In this patient a much smaller dose of chloral was required if morphia had been pre-viously given, and a smaller dose of chloroform was needed to produce anesthesia if the patient were already under the influence of chloral. Ultimately he tried the effect of electrolysis on the tumour; he inserted (under chloroform) six needles into the tumour, and applied the current for ten minutes, and three days afterwards he repeated the operation for fifteen minntes. The result of these operations was to give the patient great immunity from suffering. Mr. Lawson Tait remarked that had the electrolytic treatment been applied earlier, he was certain it would have saved her much pain.

Mr. T. SEITH asked Dr. Althaus if he had ever seen a malignant tumour destroyed by electrolysis. In reply, it was stated that Dr. Althaus had treated about fourteen such cases in this manner. Two had got better; the others were negative, but the pain had gone. When early resorted to, it might do better. The two which did well were mammary tumours.

OBITUARY.

THOMAS WALKER GRANT, M.R.C.S.

This gentleman, who died at his residence in the Edgware-road, on April 8, 1871, was one of a class of Practitioners intensely appreciated by their own somewhat limited circle, but devoid of the ambition to make themselves known out of it. An intimate friend tells us that he "was a man, the loss of whom intimate friend tells us that he "was a man, the loss of whom to the Protession may not be much noticed or felt, yet was an emisent example to the public of all those qualifications which of daily practice, and a somewhat over-strained modesty, added to long-continued feeble health, prevented him from advancing those claims to influence Medicial society publicly, which by culture and natural intellect he was fully qualified to sustain. It was an intense and diligent attached at through life, nothing new escaped him, and everything which came under his observation he mastered and made his own. There was nothing meretricious or deceptive in his general conduct; plain, practical. mertricious or deceptive in his general conduct; plain, practical, and honest in the purest sense, he nerve stooped to unworthy mans to gain an object. Those who knew him never could trace falsebood to him, not did his hands ever grasp contaminated gain. The best testimony to his worth is the idolising octeem of his patients; and well he earned it, for no man ever ascrifted his case, time, health, and life for their welfare more than he did. They regarded him as a personal friend, consulted him on family, business, and other matters foreign to his Production of the consulting the state of the control of the contro self-reliance which is founded on knowledge; and when the opinion of the latter was sought after, it generally did but

confirm his own. To the poor he was as attentive as to the rich, and hundreds of ill-spared fees were foregone every year. For several years past he suffered in winter from chronic bronchitis, and last January he was prostrated by the attack which proved fatal. After some weeks of intense suffering, he rallied a little. and hopes were entertained of his recovery, but, nnable to take nourishment, he sank from exhaustion. Let it be added that his hopes for future happiness rested simply on the merits of Christ as his Saviour."

NEW INVENTIONS.

HUMBY'S SKIN-CLEANER (REGISTERED).

This useful little contrivance, invented by Mr. Humby, is intended to facilitate the labours of that increasing class of the community who begin their day with a good tub and rub. is especially adapted for tourists, travellers, and others to whom space is an object. It consists of a firm pad, and a band, so arranged as to be adapted for scrubbing the front of the body or the back. The band may be folded over the pad, and serve as a handle for scrubbing the front; and when unfolded it may be used to draw the pad up and down the back, so as to give a thorough polish to the loins and between the shoulders. It is a small matter in itself, but anything that helps to keep us sweet deserves notice.

MEDICAL NEWS.

UNIVERSITY OF ABERDEEN.—At the late Medical Graduation term, the following candidates, after the usual examinations, received degrees in Medicine and Surgery:—

THE DEGREE OF M.D.
Dutt, Russick Laul, M.R.C.S.E., L.S.A., Calcutta.
Ghose, Kristo Dhan, M.R.C.S.E., L.M.S.C., Calcutta.

At the same time, the following gentlemen received promotion to the degree of M.D. :

to the degree of M.D.:—
Arbackle, Rugh Wight, M. B., Thorne, Doneaster,
Coutts, James Allen, M. B., C.M., Barchery-Ternal,
Coulen, James, M. B., C.M., Chung, Barchery-Ternal,
Lincolnshire,
Collen, James, M. B., C.M., Chungaru, Bengel,
Diyer, Thomas Rich, M.B., C.M., Edshiem Royal Hospital, London,
Wood, Alexander, M. B., C.M., Albacklem Royal Hospital, London,
Wood, Alexander, M. B., C.M., Albacklem Royal Hospital, London,
Wood, Alexander, M.B., C.M., Albacklem,
Woodlord, Edward Tomas, Rivido,
Royal Royal, Charles, C. C., Charles, C. C., L., L. C. S.L., News
Denham, William Thomas, Rivido, Kanages, Samuel Thes, L.K.
Carmichael, Arballed, M.A., Mary

To Markey, List of Wagner, List of Wagner, Lind of Wagner, Markey Samuel Thou, L. K. and 4.C.P.I., I. I. I. C.S.I., Neverside, New Booth Water Longston, David, Alterdess Lowson, David, Alterdess M. A., Kilberns, Monthale, M. A., Kilberns, Marchall, Levin Walter, M. R.C. Edge, Bristol M. A., Ellon Raitt, Thomas, Aberden Shepberd, James, M. A., Aberden Sumpson, James, Aberden Walsham, William Johnson, L.S. Lender, (Etc. 1917-5), London Wilson, Alexander, M. A., Bayas Wilson, Alexander, M. A., Bayas cuiter Cobban, Alexander Richard, Whit-field, Berkeley Creighton, Charles, M.A., Peterhead Crombie, Charles Mann, Aberdeen Davidson, Charles, Aberdeen Davidson, George Farquhar, Aber-

Edwards, William Hy., M.R.C.S.E.,

Edwards, William Hy., M.R.C.S.E., (St. Bart.'s), Antigua Fasken, William Andrew Durnford, M.R.C.S., England, London Goodhart, James Frederic, L.R.C.P. Lond., M.R.C.S. (Guy's), Brighton Gordon, John, Gray's Hospital,

Jotham, Geo. Wm., Kidderminster

THE DEGREE OF C.M. Benham, William Thomas Brotchie, Theodore Rainy Carmichael, Archibald Cobban, Alexander Richard

Cobban, Alexander Richard Creighton, Charles Crombie, Charles Mann Davidson, Charles Davidson, George Farquhar Edwards, William Henry

Fraser, George Innes Goodhart, James Frederic Gordon, John Jotham, George William Knaggs, Samuel Thomas

or C.M.
Lawrence, Nathaniel
Lowson, David
Maclean, John Cassilis Birkmyre
M'Calman, Hugh
M'Calman, Hugh
Mine, Thomas
Shepherd, James
Waldo, Henry,
Waldo, Henry
Waldo, Henry
Waldo, Henry
Waldo, Henry
Waldon, William Johason
Williams, Aifred Henry
Wilson, Alexander

Of the above-mentioned candidates, Archibald Carmichael, James Frederic Goodhart, David Lowson, William Johnson Walsham, and Alexander Wilson received their degrees in Medicine and Surgery, with highest academical honours; Russick Laul Dutt, Kristo Dhan Ghose, and Samuel Thomas Knaggs, their degrees in Medicine, with academical honours; and John Cassilis Birkmyre Maclean, Lewis Walter Marshall. and Thomas Milne, their degrees in Surgery, with academical honours. The theses of James Frederic Goodhart on "Artificial Tuberculosis and its relation to Cellular Pathology,

and the Growth of Tumours"; of Samuel Thomas Knaggs on "The Sagacity of Nature's Plan as exhibited in the Arrangement of the Tendons of the Digits of Vertebrate Animals"; and of William Johnson Walsham on "The Thermometer as an Aid to the Diagnosis and Prognosis of Disease," were con-

sidered deserving of high commendation.

At the same time Louis Richard Connor was certified as having passed all the examinations, and is entitled to receive degrees on his attaining the necessary age; and the following were declared to have passed part of their examinations:—

Arthur, John F.
Burness, Alexander G.
Carless, Berand N.
Carless, William Alexander
Caches, William Alexander
Cushry, William Alexander
Edwhy, William Alexander
Fraser, Alexander
Goddie, William
Gibbons, John Stephen
Hall, John George Hall, John George
Hallett, Henry Arthur
Hay, Frederick
King, Walter Gawen
Lyon, John
Mackensie, Duncan John
Mearns, William
Mickle, George

ou Lucur examinations:Opaton, Francis
Farris, Richard
Fatterson, David Aikman
Philpotts, John Richard
Pringle, John
Reid, Robert William
Reenite, Thomas
Reenite, Thomas
Richard
Rossell, James
Skinner, Charles Gordon L.
Stephen, James Skinner, Charles Gordon I. Stephen, James Tytler, Feter Urquhart, Alexander Reid Walker, James Welford, George E. Wyness, James Davidson Yule, Robert Mortimer

The next Professional examination for degrees in Medicine commences on Saturday, July 22, 1871.

UNIVERSITY OF ST. ANDREWS .- The following gentlemen having passed the required examination, obtained the Degree of Doctor of Medicine on April 22 last:—

Storm, Googs, F.R.C.S. M.R.C.S., Lak.A., Kennal-greve, London, Galew, John, R.C.S. Edin, Kalidian-Sunger, Arry, Glasgow, Cawford, Cooper Hayne, M.R.C.S. Lin.A., Asalidan-Sunger, Arry, Glasgow, Cawford, Cooper Hayne, M.R.C.S., LuS.A., Leddenth, Cornwall. Harris, Henry, P.R.C.S., M.R.C.S., LuS.A., Reduth, Cornwall. Muserott, Henry, L.R.C.P. Lond, M.R.C.S. Eng., Pontefreet, Underball, Thomas, L.R.C.P. Edin, M.R.C.S. Lood, L.S.A., Tipton.

ROYAL COLLEGE OF SURGEONS OF ENGLAND .- The following gentlemen passed their primary examinations in anatomy and physiology at a meeting of the Court of Examiners, on the 25th inst., and, when eligible, will be admitted to the pass examination :-

niers, on the 20th inst., and, where eigitole, we ded to the pass examination.

Let the the control of the disagow febool.

Blyth, thaties, of the Glasgow febool.

Covv. Alfred Ernest, of the Jenden Rospital.

Covv. Alfred Ernest, of the Jenden Rospital.

Blyth, thaties, of University College.

Hawton, James William Henry, of Grys' Hospital.

Johnson, John James, of the Westminster Hospital.

Johnson, John James, of the Westminster Hospital.

King, Aloyium Joseph, of the Bristol School.

King, Aloyium Josep

Seven candidates having failed to acquit themselves to the satisfaction of the Court of Examiners, were referred to their anatomical and physiological studies for three menths.

The fellewing passed on the 26th inst., viz.:—

following passed on the 26th linst, viz: :—
Alten, John Edward, of the Manchester School.
Bully, Freederick William, of King's College,
Bullet, Tromas, of the Birminghams School.
Daniel, James, of the Birminghams School.
Daniel, James, of the Manchester School.
Daniel, James, of the Manchester School.
Daniel, James, of the Manchester School.
Buvion, Bashell Tromas, of St. Bartholomer's Horpital.
Hutchinson, Walter, of King's College.
Lavracce, Henry, of the Birstol Schoolomer's Horpital.
Odling, Ton Practic, of St. Bartholomer's Horpital.
Schownood, Arthur Fani, of St. Bartholomer's Horpital.
Schooling, Ton Practic, of St. Bartholomer's Horpital.
Schooling, Ton Practic, of St. Bartholomer's Horpital.
Scholing, Ton Practic, of St. Bartholomer's Horpital.
Trace, Frank Edward, of St. Bartholomer's Horpital.

Walson, Percival Humble, of University College. "s Hospital. Waylen, George Swithin Adee, of Bt. Bartholomes's Hospital. Whittield, William John Clarke, of the Bristol School. Whitmore, William Tickle, of St. Bartholomes's Hospital. Wilkins, William Arthur, of St. Bartholomes's Hospital. Wilkins, Ernest William Saccroft, of University College. Wilkins, Ernest, Oldrege. Williams, Howeld, of University College.

Thirteen candidates were referred to their anatomical and physiological studies for three months.

The following passed on Thursday, the 27th inst.:—

following passed on Thursday, the 27th inst.;—
Anderson, William Renzy, of S. May's Hospital,
Barrow, Albert Borye, of King's College,
Bollidd, Charle Woolkserth, of the Britold Rebool.
Bollidd, Charle Woolkserth, of the Britold Rebool.
Pay, Prancis Marcus, of King's College,
Pay, Varied Wooley, of King's College,
Grant, January of the Ethinsteph to Hospital,
Grant, January of the Ethinsteph to Hospital,
Killie, Robert Howlen, of King's College,
Lyona, Alfred In Course, of the George's Hospital,
Massingham, Alberty, of the George's Hospital,
Parker, Alfred Events, of St. George's Hospital,
Parker, Alfred Events, of St. George's Hospital,
Bools, William Henry, of Gry's Rospital,
Bools, William Henry, of Gry's Rospital,
Bools, William Henry, of Gry's Rospital,
Smith, Ollett, of St. Bartbolomer's Hospital,
Smith, Ollett, of St. Bartbolomer's Hospital,
Warne, William Colston, of the Edinburgh Schehool,
Warne, William Colston, of the Edinburgh Schehool,
Warne, William Colston, of the Edinburgh Schehool,

Twelve candidates failed to acquit themselves to the satisfaction of the Court of Examiners, and were referred to their Anatomical and Physiological studies for three months.

APOTHECARIES' HALL.—The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday. April 20, 1871:-

Nortolk, William Todman, Cantley, Norfolk.
Lleweilin, George Joseph, Haverfordwest,
Matcham, Alfred, Lowesdort,
Parry, Thomas William, Carnarron.
Ravenhill, Edward Burtin, Artingham, Oloucestershire.
Reston, Henry, Stretford, Manchester.
Reston, Henry, Stretford, Manchester.
Henry, Marchester.
Reston, Henry, Kunt.
Henry, Kunt.

The fellowing gentlemen also on the same day passed their First Professional Examination:—

Deacon, Henry Pelham, St. Barthelomew's Hospital. Henson, Walter Knowsley, Hull Medical School. Scale, George John, Middlesex Hospital.

APPOINTMENTS.

• The Editor will thank gentlemon to ferward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

CLARRHONT, CLAUDE CLARKE, M.B.C.S.E., L.S.A.—Public Vaccinator to the parish of St. Pancras.

COLE, THOMAS, M.D. Lond., L.E.C.P. Lond., M.E.C.S.E.—Honorary Physician to the Royal United Hospital, Bath. DUNCAN, J. M., M.D.—Consulting-Physician to the Royal Hospital for Sick Children, Edinburgh.

EAGER, R., M.R.C.S.E.—Consulting-Surgeon to the Royal Surrey County Hospital, Guidford. Foor, A. W., M.D., F.K.Q.C.P.I.—Physician to the Meath Hospital.

Tenwan, Horacz, M.R.C.S.E.—Resident Physician's Assistant at Middlewcz Hospital,

MILITARY APPOINTMENTS.

97n LANCERS.—Staff Assistant-Surgeon John Vicary Thatcher Malcolm, M.D., to be Assistant-Surgeon, vice Maximilian Grant, M.D., promoted on the Staff.

on the Staff.

ROYAL ARTILLEAY.—Staff Surgeon Tertius Ball, M.D., to be Surgeon, vice
Surgeon-Major Thomas Park, placed upon half-pay.

Gru Foor.—Staff Assistant-Surgeon Heary Skey Muir, M.D., to be
Assistant-Surgeon, vice Benjamin Cowan Kerr, M.D., promoted.

Assistant-Surgeon, rice Benjamin Cowna Kerr, M.D., promoted-Mancaca Dres areasys: — Assistant-Burgona Respiration Cowna Kerr, March Mancaca Dres areasys: — Assistant-Burgona Respiration Cowna Kerr, March 16 Blyral Artillery; Assistant-Burgona, see Mart Burgona-Major Francis Upen, deceased; Biaff, Assistant-Burgona, see Mart Burgona-Major Francis Upen, deceased; Biaff, Assistant-Burgona, see Producted Burgy Western Company (Company) (1998)

Cantagill.—On April 12, at 40, Wellington-square, Hastings, the wife of W. Campbell, Eq., Surgeon, of a daughter.

Cwarx—On April 17, at South Brent, Devon, the wife of Thomas Cowry, Assistant-Surgeon R.N., of a son, still-born.

HEWLETT.-On April 16, at Palazzo, Volpicelli, Naples, the wife of It.
Whitfield Hewlett, M.D., of a daughter, JAMES.—On April 23, at Perry-vale, Forest-hill, the wife of A. James, M.D., of a daughter.

Manoz.—On April 20, at 32, Fitzroy-square, the wife of Henry M. Madge, M.D., of a daughter. Newconne.-On April 19, the wife Dr. Newcombe, Gateshead, of a son.

STARKE.-On February 22, at Creswick, Victoria, Australia, the wife of A. G. Hayden Starke, M.D., of a son.

WOLFE .- On April 23, at Brandon-place, Glasgow, the wife of Dr. Wolfe,

MARRIAGES.

MARRIAGES,
BESETT-NEWYOS.—On April 18, 4th Echurch of St. Matthew, Naburn,
T. Marchall Bennett, M. B., 4f harton-upon-Humber, non of J. Bennett,
T. Marchall Bennett, M. B., 4f harton-upon-Humber, non of J. Bennett,
T. Marchall Bennett, D. B., 40 Grove Lodge, York.
Bernett, Edge Company, C. B., 40 Grove Lodge, York.
Bruss-Hissnery.—On April 28, at 8t. Barthelomer's, Islangton, Hosbert
Greenwood, elder ten of T. W. Burr. Eqs., 4 R. A. 8, 4, 5, 15, Third-nesparse, Islangton, and 12, Patermenter-eve, City, solution, to EddAmer. Livideophies of the late C. J. Herbert, Leg., 6 surpeon, of BedAmer. Livideophies of the late C. J. Herbert, Leg., 6 surpeon, of BedAmer. Livideophies of the late C. J. Herbert, Leg., 6 surpeon, of Bed-

worth, Lescestershire. worm, Leaconcaire.

COLDETRAN — HENDARON.—On April 25, at Highbury, Bristol, John [Julilips Coldstream, Esq., W.S., Edinburgh, to Emily, widow of James Henderson, M.D., Shanglad, and second daughter of George Rawson, Esq., of Lancelled, Durcham Down.

Harris-Adams.—On April 18, at St. George's, Walthamstow, Henry Burham Harris, M.D., to Catherine, third daughter of Frank Adams, Esq., of Hoe-street, Walthamstow.

Jourseros—Hellers, on Incestruct, Williamstow.

Jourseros—Hellers, April 20, at Holy Trinity Church, Ryde, Robert Bainbridge Longmire, youngest son of James T. O. Johnston, M.D., Deputy Inspector-General of Rospitals, to Harriet, only daughter of Thomas Hellyer, Esq., of Bouverie House, Ryde.

KNOST-WARD.—On April 25, at the parish church, Clapham, Alexander A. H. Knight, M.D., L.R.C.S.E., Kerwick, to Sidney Eliza, cidest Gaughter of James Ward, Eq., Clapham-common.

Loughter of James Ward, Esq., Clapham-common.

J. D. Ardys, —On April 20, at Eversholt, forest Annesley, D. Mahon,
M. R.C.S. E., of High-street, Swindon, to Agues Amelia, second daughter
of Samuel Sandys, M.R.C.S. E., etc., of Eversholt House, near Woburn,
Beds.

AALBR-HOLMES.—On April 25, at 8t. George's, Bloomsbury, the Rev. Frederick Payler Morgan Payler, M.A., to Julia, second daughter of the blate Trafford Holmes, M.D., of Southedge House, Hipperholme, York-

Savila-Baoott.-On April 19, at the parish church of St. Thomas, Didley, George Cleroest Searle, M.R.C.S.E., of Tecklesbury, to Annie, eldest daughter of G. once Bagott, Eeq., J.P., of The Laurels, Dudley.

CHIEF CAMENT OF LOTE IMPORTS, OF THE LAWES, DUMBY, STITUMENT—NAMEN — ON APPIL 19, at 8 I. Paul's Discoop. Church, Oracle of the Control of th

DEATHS.

BACOT, ELIZABETH LAURA, second daughter of J. T. W. Bacot, Deputy Inspector-General of Hospitals, at 38, Harmer-street, Gravesend, on Inspector-General April 19, aged 10.

кары 10, agcu 10.

"wanto, Sano Otivia, the beloved wife of Henry Cumming, Esq., et 37.

Westlourne-park-villas, daughter of the late Dr. Spunrin, of Oreat
Cumberland-street, at midnight on April 17, after a short but severe
filmess, agcd 32.

Gunart, Richard, Surgeon, formerly of Eydon, Northamptonshire, at Hemingborough, Howden, Yorka, on April 23, aged 75. Gever, Edward Ventino, M.D., eldest son of Coi. E. Goate, Bagot, Jersey, at his residence in Hales-street, Coventry, on April 15, aged 48.

STORY, a far remained in flatness-rever, covering, on April 18, ages does the first distinguish of the first distinguish

JOHNSTON, CATHERINE, widow of George Johnston, M.D., I.I.D., and daughter of Claudius Charles, Esq., at Berwick-upon-Tweed, on April 22, aged 77.

RUDGET, MARGARET, the beloved wife of C. V. Ridout, Surgeon, at Egham, Surrey, on April 19.

States, on April 19.
Sim-tox, Althou Verreu, the beloved wife of Dr. Simpson, at 759, Old Kent-road, on April 22, aged 30.
Strong, Maria Mart, the beloved wife of Henry John Strong, M.D., of 61, North-end, Croydon, Surrey, on April 22, after a long illness.

THOMAS, FLORENCE RALPHINE, second and beloved daughter of Dr. Thomas, at 39, Nottingham-place, on April 19, aged 64 years.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession. made, and the day or election (as far as known) are stated in succession. Bistrot. Livaric Astrick, Statistrox, kaza Bistrot.—Hoddied Supreintendent; must have both Medical and Surpical qualifications. A gestleman who has lad practical experience in the management of a Lunstic Asylum will be preferred. Applications and testimonials to the Chairman of the Committee of Visitors, on or before May.

Chairman of the committee of visitors, on or before May I.

CHRITERIAM GERERAL HORITAL AND DIFFERMANY.—Resident Surgeon
to the Branch Dispensary. Candidates must have both Medical and
Surgical qualifications, and be registered. Applications and testimonials
to Mr. D. Hartley, on or before May 20.

City of London Lying-in Hospital, City-moad.—Surgeon Accoucheur.
Applications and testimonials to Mr. J. Owthwaite, on or before May 2. Applications and testimonias to air. 4. Ownawaite, on or before any x.East Ribins Dexarte Astrum.—Medical Superintendent; must be duly
qualified and registered. Applications and testimonials, together with a
copy of the late Ricpot of the Commissioners in Linner, are at the state of
the Asyliam with which the applicant is not reconstitute, to hir. I. Aldoson, Dexcript, Yorkshine, or no before June. LITTLEBORE PAUPER LUNATIC ASTLUE.—Resident Assistant Medical Officer; must be duly qualified and registered. Applications and testimoniais to J. M. Davesport, Esq., County Hall, Oxford, on or before May 13.

LONDON FYVER HOSPITAL,—Assistant-Physician; must be F. or M. B.C.P.L. Applications and testimonials to the Secretary, on or before May 2, Election on the 12th.

Election on the 17th.

NABBERT SUNOR.—Medical Officer for the Third District. Candidates must have the qualifications prescribed by the General Orders of the Poor-law Beard, and understand the Welsh language. Applications and testimonical to Mr., John Thomas, Cierk, Narberth, on or before June II. Election on the 19th.

Election on the 19th.

NORTHEAST INCO.—Modical Officer for the district comprising the part of the district the comprising the part of the district the comprising the part of the district the comprising the part of the part of the Powcar Comprision on and testimoniate to Mr. In Riske, Clerk the Guardiana, on or before May 24. The duties will commence on June 31. May 18 and 18 a

restruct, on or bettow May 13.

87. Through S. Horryta.—The saff of the Hospital is to be increased by the appointment of a Physician, two Assistant-Physicians, as Surgeon, and two Assistant-Surgeons. Pull particulars may be obtained upon application to Francia Hicks, Edg., the Treasurer.

SEMEN'S HOMETIC (LATE "DEARDOOUNT"), GREENWICH.—Howe-forcers, must possess at least one qualification. Applications and test-montate to Mr. Residual (Lock.)

SOUTH STAFFORDSHIRE ORNERAL HOSPITAL, WOLTERHAMPTON.—Dispenser, must be a Member of the Pharmaceutical Society. Applications and testimonials to the "Chairman of the Medical Committee," on or before April 29

April 29.
SOUTH STAPPORDSHIRE GENERAL HORFITAL, WOLVERHARPOS.—House-Surgeon; must be a Fellow or Member of the Royal College of Surgeoss of London, Edinburgh, or Dublin, and a Licentiate of the Using of Physicians, London, or be L.S.A. Applications and testimonials to the "Chairman of the Medical Committee," on or before April 25. Election on May 9.

on any s.

SOUTH STAFFORDSHIER GARBEAL HOSPITAL, WOLVERH ANFOR,—Physicia:
must be M.D. or M.B. of the University of Oxford, Cambridge, London,
Edinburgh, or Dublin, or F. or M.B.C.P. London, Edinburgh, or Dublin
not practising midwifery or pharmacy. Applications and testinomals
to the Secretary, on or before May 18.

Unst, Shetlard.—Medical Officer. For particulars, apply to Mr. T. Edmondston, 9, Albany-street, Edinburgh.

POOR-LAW MEDICAL SERVICE.

*. The area of each district is stated in acres. The population is computed according to the census of 1881.

Narberth Union.—The Third District is vacant; population, 4470; salary.

West Derby Union.—The Childwall District is vacant; area, 880; population, 174; salary, £3 3s. per annum.

Erpinpham Union,—George R. Lake, M. R.C.S. Eng., L.S.A., to the North

Walsham District.
Fellment Unon.—Edward H. Eykyn, M.R.C.S. Eng., L.S.A., to the Constantine District.
Guillernes Pinen.—Anthony C. Farrington, M.R.C.S. Eng., L.R.C.P. Eldin, to the Fifth District.
Halifast Unon.—Ernest Hamerton, M.R.C.S., L.S.A., to the Elland District.

Hatting County Lawrence American M. R.C.S. Eng., L.S.A., to the Second and Eleventh Districts. A Taylor, M.R.C.S. Eng., to the Second and Eleventh Districts.

Figh Districts. — William T. G. Hicks M.R.C.S., L.R.C.P., to the Tol-

Woburn Union,—William T. G. Hicks, M.R.C.S., L.R.C.P., to the Tod-dington District.

ROYAL INSTITUTION OF GREAT BRITAIN.—The following is the programme for the Friday evening meeting after Easter, 1871: — Friday, April 28, Professor Offlier, F.R.S., "On the revived Theory of Phlopiston." Friday, May 6, W. R. B. Ralston, M.A., Trainity College, Conditionary of the Professor of the College Condition of the Professor of the United Kingdom." Friday, May 19, Professor Harly, F.R.S., "On Babon Berkeley and the Metaphysics of Sensition." Friday, May 26, Professor Renkine, F.R.S., "On Ericky, June 2, Professor Brunas, Advanced and Liquid States of Matter." Friday, June 9, Professor Typholl, LLD, F.R.S., McL. F.R.S., "On Expension." Friday, June 9, Professor Typholl, LLD, F.R.S., McL. F.R.S., "On Expension." Friday, June 9, Professor Typholl, LLD, F.R.S., McL. F.R.S., Tophol. F.R.S., "On Expension." Friday, June 9, Professor Typholl, LLD, F.R.S., McL.

Tyndall, LL.D., F.R.S., M.R.L.
THE scheme for establishing a college of physical science at Newcastle, in connexion with the Durham Uni-

venity, is progressing satisfacterily.

OWEN'S COLLEGE, MANCHESTER, -Miss Brackenberry has announced her intention to give £5000 for the erection of suitable buildings for a Medical school in connexion with Owen's College, and a further sum of £5000 as an endowmont for the maintenance of the department.

DINNER AT THE KING AND QUEEN'S COLLEGE OF PHYSICIANS, IRELAND.—On Wednesday, April 19, the President, Dr. Banks, entertained the Fellows of the College and a numerous party of visitors at dinner in the College Hall, Kildare-street. Among those present were Professor Asland Among those present were Professor Acland, F.R.S., of Oxford; Dr. Laycock, Professor of Medicine in the

F.K.S., of UNION; J.P. Laycoox, Froresor or accumen in mo University of Edinburgh; Dr. Heaton, of Leeds; and the Right Rev. Dr. Graves, Lord Bishop of Limerick. A SPECIAL general mosting of the Royal Modical and Chirurgical Society will be held on Monday, May 8, at 5 p.in. precisely, to consider the recommendations of the Connell for providing further accommodation for the Society's library, by building an additional reading-room at the back of the present meeting-room. An abstract of the reports of the committee appointed to consider the subject, with their recommendations, and plans of the proposed alterations, will be laid on the library table, a week before the meeting, for the inspection of

the Fellows.

COLLEGIATE PROCEEDINGS .- From a report of the COLLEGIATE PROCEEDINGS.—From a report of the unconfirmed minutes of the proceedings of the last meeting of the Council of the Royal College of Surgeons, it appears that the recommendation of the Museum Committee for the construction of cases on one of the floors of the house adjoining construction of cases on one of the floors of the house adjoining the castern museum, for the display of Surgical instruments and apparatus, was adopted by the Council, as was also the appointment of Mr. J. B. Perrin as temporary assistant in the museum, in the vacancy occasioned by the resignation of Mr. Mosely. A handsome gratuity was unanimously awarded to Mr. James Flower, articulator to the College, "as a mark of the appreciation of the Council of the value of the numerous improvements introduced by him in the method of preparing and mounting skeletons, whereby the facilities for the study of osteology have been greatly increased." On the recommendation of the Jacksonian Committee, the following were adopted tion of the Jacksonian Committee, the following were adopted as the subjects of the next Collegial-trienal Prize and Jack-sonian Prize for 1872, viz.;—For the former, "The Structure and Fanctions of the Mediula Oblongata, including the Com-noxions of the Central Nerve-roots:" for the latter—"The next of the Central Nerve-roots: "for the latter—"The and their Treatment." The dissertation might be full subject to the contract of the contract of the subject to the contract of the contract of the contract of was elected an Examiner in Dental Supreyr, in succession of the was elected an Examiner in Dental Supreyr, in succession of the contract of th was elected an Examiner in Dental Surgery, in succession to Mr. Harrison.

WORCESTER GENERAL INFIRMARY .- The monthly meeting of the Executive Committee was held last week. Earl meeting of the Executive Committee was held last week, Earl Beauchamp presiding. Mr. Mence, pursuant to notice, moved —"That the Committee take steps to increase the annual income of the institution." In 1869 the expenditure was £3864, and the income from subscriptions only £1694. They had since then increased the expenses by an improvement of diet, and the income had been diminished by their having had to sell £1300 worth of stock to meet that year's deficiency. A to sail 2.1900 worth of stock to meet that year's deficiency. A further diministim would take place to pay for the alteration for the alteration of the country of the strength of the towns, there were 148 particular to country, and to thought if they were appealed to, the number of subscribers would be largely augmented. They had invested since 1834 [213,356, and sold out in the same period £4007. since 1994 215,090, and sold out in the same period 24007. Their funded property had increased in seventicen years by very nearly £5000. Mr. Mence further remarked that the average of legacies during the last sixteen years had been £935, and the average for the last ten was £690.

SMALL-POX continues to spread in Malta.

SMALL-POX IN BRUSSELS.—This continues to commit ravages in the present crowded state of Brussels. The cases are not very numerous, but their severity shows that the epidemic is as yet far from being at an end. It is said that not a single case has been met with among persons successfully revaccinated. Last week there were forty-one deaths from small-pox in a total mortality of 174.—Presse Belge, April 16.

SMALL-POX is rapidly spreading in Longton, Staffordshire. Nine persons have died, and ninety-three are under treatment. There are numerous cases in the populous outskirts of the town. The disease has also appeared in the neighbour-ing towns of Fenton and Barslem, and it continues to spread ing towns of Fenton and Barstein, and it continues to spread in the neighbourhood of Northwich, Cheshire; but, happily, the disease takes a mild form, and in one case only has death resulted from it. There are now in this neighbourhood no fewer than five public-houses closed, owing to the inmates sufforing from small-pox.

PREVALENCE OF SMALL-POX AT SALFORD .- Dr. Syson. Medical Officer of Health, reported to the Board of Guardians, at their meeting last week, that he had every reason to four that small-pox was on the increase in the borough. He had can small-pox was on the increase in the ordugh. He had camined a great number of children—taken haphaxard— and a large percentage of them appeared to be unvaccinated. He would suggest that house-to-house vaccination should be permitted again, for he was convinced, from his own experience while a public vaccinator, that only by such a system would vaccination be effectually carried out. The general opinion of the Board was that the measures already adopted by them in respect to vaccination were sufficient. The spection of the Medical officer was, therefore, not acted upon The sug-

THE death is announced of Professor Oppolzer, the cele-

brated Vionnese Physician.

CONTAGIOUS DISEASES ACTS .- The contagious diseases inquiry is now rapidly drawing to a close. All the witnesses have been examined on both sides, and the draft report of the chairman is likely to be submitted to the Commissioners

Dr. STRUTHERS. Professor of Anatomy in the University of Aberdeen, has been appointed Chairman of the Scottish Section of the Court of Examiners of the Royal College of Veterinary Surgeons.

HER MAJESTY'S ship Fisqurd, stationed off Woolwich, will be a companion Hospital-ship to the Dreadwayht, at Greenwich, and be used as a convalescent Hospital for small-

THE Bishops of London, St. David's, Ely, Heroford, and St. Asaph have become patrons of the National Union for the Suppression of Intemperance, and the Dean of Manchester a vice-president.

THE health of London during the year 1870 was unusually good, and the mortality exceptionally low. That—notwithstanding a succession of formidable epidemics—is the great fact of the Registrar-General's Summary.

An East Kent Militia recruit billeted at Canterbury, on Monday week cut off his right forefinger at the joint, in order to incapacitate himself for further service. He was taken to the Hospital, and will be prosecuted for wilfully maining himself

AT the meeting, on Wednesday, of the Wakefield Board of Guardians, Dr. Wade tendered his resignation of the office of Medical officer for the townships of Sandal Magna, Cheevet, etc., and of vaccinator for No. 4 district, which was

AT Newcastle, last week, a butcher named Whinney was summoned for selling diseased meat, and set up as a defence that the magistrates had power, under the Act, to appoint only two inspectors of provisions, whereas they had appointed four—three police inspectors, and the market-keeper. The magistrates held the objection to be valid, and dismissed the summons.

THE oldest inhabitant of the parish of Hawarden, Sarah Clarke, died at Pentresbin, near Hawarden, on Tuesday last, having attained the oxtraordinary age of 109 years.— Chester Chroniele.

A BILL has been printed, bearing the names of Mr. Forster and the Solicitor-Genoral, which proposes to amend the law respecting the granting of charters to new colleges and the law respecting the granting of charters to new colleges and be universities. by providing that copies of such charters shall be laid before Parliament for a period of not less than thirty days before they are presented to her Majesty for signature.

In the baby-farming case in Somersetshire an inquest has been held, but adjourned for further evidence. Mr. Major, the unregistered Medical Practitioner who took the child to the nurse, refused to give any evidence as to its name or parentage, and was committed to Shepton Mallet Gaol for contempt of court. He has since been liberated, the mother having come forward and confessed that deceased was her child.

M. BOULEY reports to the Paris Academy of Sciences that the cattle disease is endemic in all that part of Europe comprised between the Ural and the Carpathian mountains. that it is permanent and constantly perpetuated by contagion. He declares the flesh of animals attacked by the disease is perfectly innocuous, and that there was not the slightest inconvenience in the use of such meat as food. M. Bouley is treating the disease with phenic acid, and M. Dumas, the Perpetual Secretary of the Academy, is using the same agent, with much apparent success.

By the latest accounts, cholera still continues at Bushire.

Denths had reached forty-five a day.
REDHILL SEWAGE WORKS.—The Corporation of Reigate are spending a large sum of money in erecting works on a sewage farm at Earlswood-common. The farm is supplied with the sewage in the usual way, and when it arrives at the fifter-house it undergoes a process in a machine called an extractor, by which the matter becomes a solid mass. There is no smell or nuisance created at the works, for the solid matters are extracted continuously, and before putrefaction

MR. INGHAM, on Tuesday, committed William Cooper, an attendant at the Surrey County Lunatic Asylum, at Wandsworth, for trial, for manslaughter, for causing the death of Robert A. Mulley, aged 65 years, a patient, by sealding him in a bath. Mr. Ward, the Junior Medical Officer of the establishment, said he was called to the deceased, and found him suffering from extensive scalds on the back, left arm, and smerning from excensive scauss on the bacs, set aim, and ankles. He attributed death to bronchitis consequent upon the scalds. Dr. Biggs, the Resident Medical Officer and Superintendent, said he asked the prisoner how he could be guilty of such culpable negligence as turning almost boiling water upon the deceased, and the prisoner replied that he did so thoughtlessly and accidentally.

so thoughtlessy and accusements.

AT an inquest held by Dr. Lankester on Saturday
last, at Paddington, on the body of an unvaccinated child,
4 years old, who had died of small-pox, Dr. W. Hardwicke,
the Medical Officer of Health for Paddington, stated that there was no house-to-house visitation in the parish; had there been this case would probably have been taken up. The Poor-law Board, Dr. Hardwicke said, did not want Medical men to be Boahn, Dr. Hartweier said, un not want actures men to semil-pox inspectors, but preferred derive who were perfectly ignorant of the disease. Dr. Arthur Prince said that when he was sent for to see the deceased child, it had been ill for a week. The jury found that "the deceased, being novae-chatted, died from the effects of small-pox."

PREYINO NO THE VITALS OF OXE'S COUNTRY.—In a letter to the Times of February 16, signed A. Anson, it is proved that a cornet of cavity preys upon the vitals of his country to the tune of some £18 a year—the said cornet being probably, let us say, from 18 to 20 or 22 years of spe-His pay is 8s. a day. Now, an Assistant-Surgeon of cavalry under five years' service receives 10s. a day, or £38 17s, a year more than the cornet, and is probably from 24 to 29 years of age, having brought his goods in the shape of his Profession ready, made to, the Government market and Profession ready-made to the Government market, and, receiving £36 10s. a year more than the cornet, actually preys on the vitals of his country to the extravagant tune of about £54 a year. If graciously allowed to keep only one horse and one servant, instead of two of each, his regimental expenses would be about £21 less; so he might even, under favourable would oe about £21 rems; so no migne even, under arrown and circumstances, be able to prey upon the vitals of his country to the extent of about £75 a year. Assistant-Surgeons of cavalry ought to blush to think of this. The exact sum of pay the cornet was found to get was £18 6s. 6d., to supply himself the country of th with food, etc.-horses, uniform, servants, etc., reducing his yearly pay to that amount.

INVERURIE .- WATER-SUPPLY AND NEW SLAUGHTER-HOUSES .- At a meeting of the Commissioners of Police last November 1 recently of the Commissioners of Fonce list week, Mr. Campbell's (Inspecting Officer) report, with reference to the carrying out of the Public Health Act in that burgh, stated:—"Inversite is a pretty, well-built, and rising little town, and its general aspect led me to anticipate a satisfactory sanitary condition. That is, however, far from being factory sanitary condition. That is, however, far from being the case. The water-supply is from wells. The soil is sandy, and cesspools are frequent. The slaughtering trade of Inverure is very important. During the season, about 250 cattle, besides sheep and pigs, are killed weekly. The trade is conducted in private slaughter-houses of a public slaughter-house ought to be provided outside the town, and all those private establishments classed. The decisions of the about in very imporfied. ments closed. The drainage of the town is very imperfect. A proper system of sewerage is contemplated by the Police Commissioners, plans for which have already been prepared. A committee was appointed to examine as to whether a supply of water could be got, and further, to inquire whether a proper site could be got for a public slaughter-house."

AUSTRALIAN MEDICAL MATTERS .- Phthisis and Deaths in the Midbourne Hospitel. — During the four weeks ending January 2 last, thirty-seven deaths occurred in the Midbourne Hospitel, which were caused by phthisis. Of those who died of consumption, one had arrived here during 1870, the others had resided two, one, ten, nine, one, two, twelve, and five years respectively in Victoria,

their average length of residence in this colony being nearly five years each. During the four weeks ending January 29 last, twenty-five deaths occurred in the Melbourne Hospital. seven (or 28 per cent.) of which were occasioned by phthisis. Six of the persons who died of consumption had resided in Victoria of the persons who ded of consumption has resided in viewns seventien, sixteen, one, five, eighteen, and eleven years respectively, or an average of upwards of eleven years each. The length of residence in the colony of one is not stated.——
The Clubs and the Profession.—That benefit clubs are always. exacting, and often unjust, towards their unfortunate Medical exacting, and often unjust, towards their unfortunate assume officers, is nothing new. From the report of the case of Hamilton v. Kurnick and others, heard in the Ballarat County Court on February 8, it would appear that something very like repudiation, if not dishonestly, must be now laid to the charge of these societies. The Ballarat Courier states, in its charge of these societies. The Ballarat Courier states, in its report of this case, that the suit was for the recovery of a sun due, for Medical attendance, by the "Duke of Edinburgh" Lodge, A.O.F. The plaintiff was Medical officer of the lodge, but not an initiated member. The judge held that, although the rules contained a clause preventing the Medical man from suing, that formed no bar to his common-law right. Neglect of duty was also pleaded for the defence, but the lodge had not discharged their Medical officer, and his Honour ruled this omission nullified the value of the plea.-Death from Snake-bite. - Failure of Ammoniacal Injection. -Another well authenticated case (says the Australian Medical Gazette of February last), showing the unreliability of the treatment of snake-bite by the injection of liquor ammonize into the veins, has just occurred. We are indebted for the particulars of this case to the Maryborough Advertiser of January 15. From the evidence given at the inquest held at the Amherst Hospital on the 14th, it appears that a man named James Marshall was bitten on the middle finger about 9 a.m. on Saturday, the 11th. A ligature was placed on the ya.ii. on Saturuay, the 11th. A figature was piaced to be finger and some ammonia applied to the bitten part. The deceased was taken to the Amherst Hospital, a distance of twelve miles. The injection of liquor ammoniae into the veins was performed four times. Marshall died at 3 a.m. on the 13th, about thirty-eight hours after the first time of injecting liquor ammonie into the veins. The ammoniscal solution was that recommended by Professor Halford. No less than three cases of snake-bite are reported in a late number of the Meri-take Dispatch, all of which were followed by alarming symptoms. The sufferers, who were in each case treated by the administration of brandy and ammonia, did well.

An outbreak of cattle disease is reported from Golaghat, Assam. On December 26 last, a herd of buffaloes was brought up from Bengal, and passed through the Namlighur Tea Factory. About two days afterwards, a disease broke out among the pigs belonging to the coolies, every one of which—some forty in number—died. It next spread among the factory cattle, and continued to rage up to January 28, by which date 137 head of cattle had died. Since then, no deaths have occurred.

NOTES, QUERIES, AND REPLIES.

Be that questioneth much shall learn much .- Bacon.

Canadian Diploma.-The question shall be answered next week. Dr. Cooper (Shoay-gyen, British Burmah) .- Your letter, with enclosure, has come safely to hand.

SERVANTS OF ALL-WORK.

TO THE ROITES OF THE ROICE OF THE ROICE AT THE SAYD GAZETTE.

Sin,—I have just cut out the enclosed advertisement from the Tolograph of this day (April 20). What can it mean!

I am, &c.,

G. V.

WANTED, a Youth, as DISPENSER, in a private surgery, and who can also attend a simple case of midwifery. Apply at 69, Lambeth-walk, before twelve or after six.

o It means what it says-more's the pity. There is no law against if Next year (if things go on at their present rate) the advertisement will be headed-" Wanted, a handy girl, who can cook, wait at table, clean the house, and attend a simple case," etc.

"MISEST MAKES MEN ACQUAINTED WITH STRANGE BEDFELLOWS."

TO THE SUTTON OF THE MIDDLE, THESE AND GALETTE.

Sin.—As you thought proper to make the recent correspondence between us and the Editor of the Drivink Medical Journal the text for some first the sum of the Surface of Surface of the Surface of the Surface of Surface of the Sur

Manchester Medico-Ethical Association, April 94,

- A. R.—The case referred to will be found in Liston's "Operative Surgery. T. S. is thanked for his communication respecting the late Mr. H. L. Thomas. The information shall be used in a future article.
- Lector .- We were aware that the late Dr. Merriman was the author of an interesting paper in the Gentleman's Magazine on "Medical Publishers and Booksellers." It will be referred to hereafter.
- A Daily Governoss has a simple malady which any well-informed Medical man could cure. Gentle aperients and local astringents may relieve in the meantime. The bowels should never be allowed to become con-stipated, and should be kept regular by a little rhubarb; and a lotion of forty grains of sulphate of zinc to a pint of water be used after defecation. For washing, use Calvert's Medical Carbolic Soap in small quantity.

A CORREGENDEM.

TO THE EDITOR OF THE MEDICAL TIMES AND DAZETTE. TO THE EDITOL OF THE KEDICAL THREE AND OARETTE.

Sig.—At page 8 (four lines from the bottom) of "A New Method of treating Wounds," instead of the words "of revascination," A tere should be "after revascination." As at its too late to paste in another "erratum," I hope you will make this public, and greatly oblige,
46, Fall-mail, April 24. "Yours, &c. C. MacDowall.

LOCAL USE OF PEPSINE.

TO THE EDITOR OF THE MEDICAL TIMES AND GAZETTE. TO THE KOITOR OF THE MEDICAL THES AND GALETTE.

Sis,—I would feel much obligated to any of your readers by being informed the best way of making a clear relution of papies for hypotermia this town, is single as a clear in ordination of papies of hypotermia this town, is single as solution of pepies with hydrochesic each, for injecting into strumous games, tumours, etc., so as to "digest" them artificially in this solution essents to thick, and contains a large proportion of pepies. If the action of this substance is merely readylite (as stated by Kirko). If the contains a large proportion of pepies with the solution will be added to the contains a large proportion of periods of the readers of the readers of your valuable journal will advise me on this subject, can cause of the readers of your valuable journal will advise me on this subject, on the periods of your valuable journal will advise me on this subject, on the periods of your valuable journal will advise me on those subject, on the periods of the period

Veterinary Learning in America. - The following extract from an American contemporary will, if it do not instruct, at least amuse our readers :-

contemporary will, if it do not instruct, at least assume our readers:—
"To the Elifor of the Merical Gasties,—The following incident happened
in the Court-worn here the other day, and may be of sean interest to undepoint was this; if we have a collection of the court of the collection point was this; if we have a coll, as a geolism, to Mr. B.—, which
coil had had hat one bettele removed, the other remaining within the
animal was seven, and, on his even-examination, stated the following
interesting festigates in the anatomy of the horse; —Attorney; What are, and
where the bellionses wiens are. Att, 'I where are they? Witness: (Cose to
the belly, Atty.; What is the servicium! Witness: I am not quite certain,
Witness: I am met quite certain,
Witness: I am met quate contained in the subminister of the court of the New York Medical Gazette,

A Reader .- Pope dedicates the prologue to his " Satires" to Dr. Arbuthnot with whom he was on terms of intimate friendship. He expresses his gratitude to that distinguished Physician in the following couplet :-

" Priend to my life, which didst not thou prolong, The world had wanted many an idle song."

Pope had a great reverence for members of our Profession, and in one of his moral essays he says :-

" I'll do what Moad and Cheselden advise,
To keep these limbs and to preserve these eyes."

much oblige :-

MEDICAL ETIQUETTE. TO THE EDITOR OF THE MEDICAL TIMES AND GAZETTE. Sin,-Your stricture: upon the following Medico-ethical question will

- mach oblige: —

 A is in attendance upon a patient until B is called by; after two consulA is in attendance upon a patient until B is called by; after a while B is againcalled in, but set in consultation, an arrangement having been made between
 him and the patient that be should be the entire management of the case,
 him and the patient that be should be the entire management of the case,
 what is the line of duty for A to observe towards B in future! Dr.

 What is the line of duty for A to observe towards B in future! Dr.

 Stokes any—"Have no Professional quarrel, no matter what the offence
 What is your opinion upon this point—Whether the supprofessional conduct
 B can be tolerated vilidout compromising the house and diguily of the
- *. There are some cases in which no law is violated, but in which an action certainly lawful, possibly just and reasonable, may be done in a way to offend the feelings of one's neighbour, and impair the good understanding and confidence that ought to prevail amongst brother Practitioners. In this case no law was broken. The patient has a natural right to consult whomsoever be pleases, and every Surgeon has a right to attend any patient who may come to him. But were these undoubted rights exerc in the way they should be by a man who does to others as he would be This is less certain. A man who has been called into cor sultation is, as it were, for the time, in a position of superiority, and of friendship to the other Practitioner; and certainly the common courtesies of life seem to demand that the consultant should not supersede the ordinary Practitioner without full explanation given in the most open way possible. But we advise A to show no annoyance. It would be useless and undignified. He might ask B for an explanation, but that were better avoided.

The Correct Department To THE SOUTH OF THE S

and tear of mind and cony is greater, and as what as convenient more likely to be mentally adoptivately efficient.

I am, &c.,
P.S.—In your issue of the 16th I saw with pleasure the term "Brigade Surjeon" applied to Dr. Burrows. When will the missonner "Burycon-Major" be changed for this or some similar citle?

A Young Obstetrician .- If a registered Medical Practitioner is engaged to attend a woman in confinement, and she subsequently engages and to attend her, and he does so, the contract in the first instance is not vitiated, and the fee agreed upon can be recovered in the county court. We, however, never advise that such a proceeding should be taken. The Practitioner who sues in such a case is almost certain to be injured, and the dignity of the Profession lowered. It was a saying of one of the most remarkable men belonging to us that "a Physician or Surgeon should be the first to think of the fee, but the last to speak of it." In fact, in all cases possible, fees should be regarded as hos

PUBLIC BATHS AND WASHINGTON.

PUBLIC BATHE AND WARRIGUES.

Bit—I TO THE REPORT OF THE REFORLATIONS AND OLETTE.

Bit—I beg in suggest that it would be advantageous the country general test in the suggest of the country general test in the country general test in the country general test in the country of the country general test in the country of the

The Worcester Board of Guardians and Dr. Woodward .- At the meeting of the Board on the 14th inst., the case was again brought forward in which it was alleged Dr. Woodward had neglected to attend a pauper patient named Hall. This was investigated by the Board on the 16th ult., when a resolution was carried—"That the whole of the facts of the case should be sent to the Poorelaw Board, for the purpose of obtaining their opinion thereon." Dr. Woodward at that time defended himself against the charge, on the ground that the Medical order was informal, it not being made out by either of the relieving officers, and his instructions from the Poor-law Board were that he was not expected to attend to orders that were not formal. Mr. Birbeck now moved that the reso-Intion carried on March 16 should be rescinded. He said, as it appeared that the Medical order was a little informal, the Board above would, if the case were sent up to them, decline to take any notice of it, on account of the little informality; and probably the Guardians would get a snubbing for having unconsciously permitted a pauper to sign the Medical order. Some discussion followed, but the motion was lost.

get a smbbling for having unconsciously permitted a pauper to sign the Medical order. Some discussion followed, but the motion was lost. To THE EDTION OF THE REPRICA THEM BETWEEN THE PROPER STREET OF VACCIDATION.

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Total .

COMMUNICATIONS have been received from-

BOOKS RECEIVED-

BOOKB RECHIVED.

Crooker's factor Methods in Analysis—On the Influence of the Differential Duties upon the grogeres of Modern Improvements in Sugar Manual Duties upon the grogeres of Modern Improvements in Sugar Manual Control of the Postate from Pion Registra-General of Melbourne's Control of the Leanington Provident Disposary—Sir William Permissers of the Leanington Permissers of the Leanin

PERIODICALS AND NEWSPAPERS RECEIVED-

The Food Journal, April—Netwer-Austrilian Medical Gasette, January and February—Pharmaceutical Journal—Worrestershire Advertiser—The Kansaa City Medical Journal—Work Chelical Frees and Circular—Philadelphia Medical Times—The Ork Daily Renal—The Cork English Cork Daily Renal—The Cork English Cork Daily Renal—The Cork Daily Renal—The Cork English Cork Daily Renal—The Cork English Cork Daily Renal—The Cork D

APPOINTMENTS FOR THE WEEK.

April 29. Saturday (this day).

perations at St. Bartholomew's, 1½ p.m.; St. Thomas's, 9½ a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Pree, 2 p.m.; Hospital for Women, 9½ a.m.; Royal London Ophthalmic, 11 a.m.

BOYAL INSTITUTION, 3 p.m. Joseph Norman Lockyer, F.R.S., "On the Instruments used in Modern Astronomy."

May 1. Monday. Operations at the Metropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Feter's Hospital for Stone, 2s p.m.; Royal London Ophthalmic, 11 a.m.

MEDICAL SOCIETY OF LONDON (Hanover-square Rooms), 8 p.m. William Cholmeley, M.D., F.R.C.P., will deliver the Annual Oratic after which a Conversacione will be held.

ROYAL INSTITUTION, 2 p.m. Annual Meeting.

2. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopædie, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Ophthalminc, 11 a.m.

**STREAM OF THE PROPERTY OF TH

ROTAL INSTITUTION, 3 p.m. William Pengelly, F.R.S., F.G.S., "On the Geology of Devonshire, especially of the New Red Sandstone System."

3. Wednesday.

Operations at University College Hospital, 2 p.m.; 8t. Mary's, 1 p.m.; Middlesex, 1 p.m.; London, 2 p.m.; 18t. Bartholomer's, 14 p.m.; Great Northers, 2 p.m.; 18t. Thomass, 14 p.m.; Samarian, 2 m.; King's College Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmic,

OBSTREAM SOCIETY, Sp.m. Dr. Wiltshire, "On Tetanus after Abortion Dr. Meadows, "On Hasmatocole." Dr. Playfair, "On a Case of Sudd Dr. Meadows, "On Ha Death after Delivery."

Dean arree Delivery."

ROYAL Microscovicial Rochett, 8 p.m. Dr. Maddox, "On the Structure of Lepidopterous Scales as hearing on the Structure of Lepidopterous Carriecolis." B. T. Lowne, M.R.C.S., etc., "On the Foot of Dilyscus marginals." SOCIETY OF ARTS, Sp.m. Meeting.

4. Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmic, 1 p.m.; Royal Orthopsedic, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m.

HARVEIAN ROCIETY (Special Council Meeting, 74 p.m.), 8 p.m. 1 Berkeley Hill, "On the Treatment of Surgical Inflammation by Count

ROYAL INSTITUTION, 3 p.m. Prof. Tyndall, LL.D., F.R.S., "On Sound."

5. Friday.

Operations at Westminster Ophthalmic, 19 p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m.; South London Ophthalmic, 2 p.m.

MEDICAL SOCIETY OF LONDOR, Sp.m. Meeting of Council.

Stovat Institution, 9 p.m. W. R. S. Ralston, M.A. Trin. Coll., Camb., On Russian Folk-Lore."

VITAL STATISTICS OF LONDON. Week ending Saturday, April 22, 1870.

BIRTHS.

Births of Boys, 1065; Girls, 1014; Total, 2070. Average of 10 corresponding weeks, 1860-69, 21347, DEATHS.

	Males.	Females.	Total.	
Deaths during the week. Average of the ten years 1900-69. Average corrected to increased population Deaths of people above 90	790 791'0	786 679-1	1578 1400-1 1540	

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS. West ... North Central 458125 20 618210 112 5 e 14 383321 12 571158 36 773175 96 9554 East ...

16 METEOROLOGY

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lean temperature lighest point of thermometer.	٠						50°0°
owest point of thermometer ,	٠						41:3"
fean dew-point temperature .	•	:		•		٠	41 8
eneral direction of wind .	:	:	:	:	•	•	6 W.
hole amount of rain in the week				:	- :		1.75 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, April 22, 1870, in the following large Towns:—

	tion in 1871.	Acre.	during April 22.	during pril 22.	Ten of A	ir (F	ature	Temp. of Air (Cent.)	Ra Fa	eta III.
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A	Births Registered the week ending	Deaths Registered the week ending /	Highest during the Week.	Lowest during	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Continuotres.
London	3258469	41'8		1578	62.8	41.8	500	10.00	175	6.61
Portsmouth	125464	13.5		44	62.0	42 0	50°3	10.12	2.00	510
Norwich	81787	10.3		31	59.8	41.0	46.0	5.38	1:47	373
Bristol	173364	37.0		61			1	***		
Wolverhampton	74438	22.0	4.5	25	62.2	41.7		9:06	078	198
Birmingham	378574	48.3		:145		40.8		9.16	5.30	574
Leicester	101367	31.7	58			39.2	490	9'46	1.91	3 35
Nottingham	90480	45'3			63.0		49'2		1.61	4 00
Liverpool	526225	103.0	353	354	00.5	41.8	48'5	9.16	0.89	236
Manchester	379140	84'5	247	185	61.0	41'0	48'8	9-33	1.49	370
Salford	123851	53.8	116				47.5	8.61	1.63	4-16
	148030	35.2	81	76	29.8	28.6	46'6	8.11	1.69	2.50
	266109	13.3	137	127	59.0	39.0	45 7	7:61	179	4 30
	255247	11.5	154	115	65-0	39.0		8:39	174	16
	135195	38.0			65.0	36.0	44'4	6.10	1.22	220
Newcastle-on-Type	103037	31.5	87	89				1.00		
	136293	25'5	54		49-0		41.0	8.00	0.87	2.27
	179944	40°6	141	96	51.0	31.0		4166	170	6 31
Dublin (City, etc.+)	477627		367		9.89		43.7	6.20	1.36	2 40
Total of 20 Towns	822321	33.1	144	185	62.4	an.2	50.6	10-83	1.68	4 (0)
in United Kingd'm	tencons	34'4	4635	200			-		1:53	2-01
AAAA - Down LOL	Control of the Party of the Par	01.4	20(2)	300/4	00.8	21.0	47.0	8.83	1 30	200

At the Royal Observatory, Green wich, the mean reading of the barometer the week was 29-33 in. The highest was 29-64 in. on Saturday morning, id the lowest was 29-01 in. on Wednesday afternoon. in the week was 29:33 in.

The population of Cities and Boroughs in 1870 is estimated to the same the population of Cities and Boroughs in 1870 is estimated as the same that the same

• The actual numbers (unrevised) of the population of these cities as borough.
a many and a red index, will probably be available left the middle of the year, and then be arbeituied for these ostimates.
1 Thousard of some suburbles.
1 Threes totals include an average for one sub-district, the return as having come to hand.

ORIGINAL LECTURES.

LECTURES DELIVERED

DI THE

PHYSIOLOGICAL LABORATORY OF UNIVERSITY COLLEGE.

By J. BURDON-SANDERSON, M.D., F.R.S., F.R.C.P.,
Professor of Practical Physiology.

LECTURE VI. (Continued) .- ON THE CAPILLARY CIRCULATION.

To complete our description of the systemic circulation we must proceed to give an account of the phenomena which present themselves in the capillaries and commencing veins. For this purpose I shall, during the remainder of this lecture, draw your attention to various appliances used for demonstrating the capillary circulation under the microscope, it being from this source that all our direct knowledge of the subject is obtained. The circulation has been studied in fish, batrachian reptiles, and mammalia.

OBSERVATION XXII.—CAPILLARY CIRCULATION IN FISH AND REPTILES.

In fish, the investigation has been such was good enough in give me the admirable contrivance I now show you. It





Fig. 30.—Dr. Caton's fish-trough. It is shown as looked at from the same level. It must be used with the microscope-stage inclined at an angle of about 40°.

or among a. consists of an oblong box of guttapercha open at one end, closed at the other, and just large enough to hold about two-living of the body of a stickbleak or minow very loosely. Tou observe that this box forms part of a plate of guttapercha, the state of the state of

observation, without the use of any narcotising drug, for a long time in a perfectly natural condition.

The tadpole is of value both to the physiologist and pathogota as a subject of research. The readiest method is to place the animal in a moderately strong solution of curary, and the properties of the properties of the place of the construction is millar to that of the instrument. I have just described—a method which has this great advantage, that the animal is in a more normal condition; for even when curare is given with the greatest care the action of the heart is weakned by it. At the present season tadpoles are not to be a superior of the condition of the properties of the proper

There are three transparent parts of the frog-the mesentery, the web, and the tongue-each of which has its special advan-

Vol. 1, 1871. No. 1089.

tages for the purposes of study. For a first view of the relation between arteries, capillaries, exists, and tymphaties, the mesentery is superior capillaries, exists, and rymphaties where the superior is superior to the force of the superior of of t



of a thin board four inches long and two and a half broad, to one side of which an ordinary three-inch object-glass is fixed by two cork supports, one at either end, each of which is about a quarter of an inch thick. To one side of the object-glass, a glass disk, four-fifths of an inch in width, is cemented with Canada balsam in such a position that it projects slightly by out it where the project of the project of the pro-ton of the project of the project of the project of the by out the project of the project of the project of the pro-ton of the project of the project of the project of the pro-ton of the project of the pro the edge of the disk there is an uncovered space about an eighth of an inch in width for the reception of the coil of intestine. Beyond this annular space the object-glass is covered with cork, to which the intestine may be secured with fine needleends. A male frog should always be selected for the purpose, as otherwise the ovaries interfere much with manipulation. The animal is placed on the board in such a position that the right side of its belly rests against the free edge of the disk, and it may be conveniently retained in sits by spring clips. A ver-tical incision is then made in the abdominal wall, about half an inch in length, extending from the lower edge of the liver downwards, and as much of the small intestine drawn gently out of the visceral cavity as is necessary, in order that the mesentery may be evenly spread on the glass disk. With care this may be effected without the slightest derangement of the circulation. It is always desirable to commence the examination with a low It is then seen that the arteries are smaller than the veins, the latter exceeding the former in diameter by about a sixth; that the arterial stream is quicker than the venous; that it is accelerated appreciably at each beat of the heart; and that in every artery a space can be distinguished within the outline of the vessel, which is entirely free from corpuscles. The arterial stream, indeed, is so quick that the forms of the corpuscles cannot be discerned, but in the veins both coloured corpuscies and leucocytes can be distinguished; and it is soon noticeable that while the former are confined to the axial current the latter show a tendency to loiter along the inner surface of the vessel, like round pebbles in a shallow but rapid surface of the vessel, like round pebbles in a shallow but rapid stream. The observation may be continued without material stream to the observation way be continued to the time to time micrometrically, it will be found that after a while it becomes wider. On this dillatation of the arteries follows a corresponding though less marked enlargement of the veins, and, if the attention of the observer is fixed upon these last, it is seen that the circulation, which was before so active, undergoes a marked and almost sudden slowing. slowing indicates that the membrane, in consequence of its exposure to the air, is becoming inflamed; simultaneously with it, the leucocytes, instead of loitering here and there at the edge of the axial current, crowd in numbers against the venous walls. In this way the vessel becomes lined with a continuous pavement of these bodies, which remain almost motionless, notwithstanding that the axial current still sweeps by them, though with abated velocity. If at this moment the attention is directed to the outer contour of the vessel, it is seen that minute, colonrless, button-shaped elevations spring from it.

each of which first assumes the form of a hemispherical projection, and is eventually converted into a pear-shaped body, attached by a stalk to the outer surface of the vein. This body, which has thus made its way through the vascular memory of the convention of t brane, 18, 1 need scarcety say, an amonous seucocyte. It soon shows itself to be so by throwing out delicate prongs of trans-parent protoplasm from its surface, especially in the direction from which it has come. We can have no doubt that the process we have been witnessing is the same as that we studied before, in the coagulation of a drop of batrachian blood in the

moist chamber. (See Lecture I.) That extreme simplicity of structure which renders the and extreme simplicity of structure which renders the mesentery so pre-eminently suitable for the investigation of those phenomena which relate to the vessels themselves, is a disadvantage when it is desired to inquire into the relation between the living tissues and the circulation. It is for this reason that the tongue is of more value as a subject of research reason that the tongue is of more value as a subject of research than the mesentery to the pathologist; for there is no other organ in which living vascular coancetive tissue can be placed under the microscope under such natural conditions. For the examination of the tongue, the curarised frog is placed on its back, the organ being extended by a ligature attached to each of its two tips, over a glass disk surrounded by cork. The of its two tips, over a glass that surrounded by con-purpose of this arrangement is that the ligatures may be readily detached, and the tongue replaced in the mouth at the end of each period of observation. When thus arranged, the convex "his, nowever, little can be seen through the mucous membrane, it is desirable to strip it off over a small extent of surface, so as to expose the muscular tissue. observed that in the meshes between the capillaries of the intermuscular spaces there are bodies of the most varied form -the so-called connective-tissue corpuscles. You have already studied these bodies in the histological part of the course. studied these bodies in the histological part of the course. We then saw how rapidly and how completely they change their appearance when removed from the liquids in which they are naturally immersed, or subjected to the action of water or other reagents destructive to their life. You have now the opportunity of studying their vital characters while still receiving their nourishment from the circulating blood. The great value of the experiment lies in this-that it affords as an opportunity of distinguishing between the characters of the connective-tissue corpuscles (fixed corpuscles of the connective tissue, as they are now commonly called) and leucocytes ("wandering corpuscles"). To avail ourselves of it, we must prolong our examination until the tissue begins to pass into the state of inflammation. No sooner do the veins begin to dilate and the venous circulation to slacken than the lencocytes find their way out of the circulating blood into the intervascular spaces, differing from the masses of protoplasm which belong to the connective tissue, only in their changes of form, and locomotion.

We shall find in next lecture that, for investigations relating to the innervation of the bloodyessels, the web is superior both to the tongue and the mesentery, so that each of the three transparent parts has its special advantages. The arteries and veins of the web can be measured in animals which are not too much pigmented as accurately as those of the mesentery.

The methods to be employed will be described in next lecture

OBSERVATION XXIII.—CAPILLARY CIRCULATION IN MAMMALIA.

The study of the capillary circulation of mammalia under the microscope is attended with great difficulty-in the first place, because (if we except the wing of the bat) there is no external part sufficiently transparent for observation under high power; and, secondly, that if internal parts are used, the injurious effects of exposure are much greater than those which occur in batrachians. To overcome these difficulties, it is necessary to have recourse to more complicated appliances and apparatus.

The mesenteries of small rodents have been repeatedly used for the demonstration of the mammalian capillary circulation. These, however, are not to be compared, as subjects of observation, with the omentum of the guineapig. This structure forms a delicate membranous expansion of from twelve to fifteen cubic centimètres in extent, which is attached by its npper margin to the greater curvature of the stomach. It differs from the organ of the same name in man in consisting. for the most part, of only two layers of peritoneum, in being much more delicate in its structure, and containing very little fat. Hence, from the simplicity of its anatomical relations, and particularly from its being attached by one side only to the stomach, from its perfect transparency, from its abundant the stomach, from its perfect transparency, from its abundant vascularity, and, lastly, from its containing not only vessels

but living cells, it is obvious that this membrane offers a good field for research.

The observations hitherto made on the mammalian mesentery have been without practical result, the reason being that s vulnerable a tissue as that of the peritoneum cannot be exposed vumerance a ussue as that of the peritoneum cannot be exposed, even for a few minutes, without injury; so that, although the greatest care is taken in demonstration, only a momentary glimpse can be obtained. To obviate this difficulty, the arrangements for placing the membrane under the microscope must be of such a nature that the structure is bathed during the whole period of observation in a liquid at the temperature of the body. I need not tell you, after what you have learnt of the destructive influence of water on the living tissues, that that liquid would not answer the purpose. Scrum would probably be best, if it were always at hand; but, practically, probably be cest, it it were always at hand; but, pracecully, solution of common salt of the strength ordinarily used () per cent.) answers the purpose perfectly. The temperature is maintained by keeping the glass trough in which the membrane is spread out over the warm stage, with the construction of

which you are already familiar (see Fig. 3).

The mode of procedure is as follows:—The guineapig is first placed under the influence of chloral by injecting that substance in solution under the skin, three grains being required for an animal about 1 lb. in weight. It is then laid on a supnor an animal about 1 to, in weight. It is then laid on a sup-port, the upper surface of which is on the same horizontal plane as that of the microscope-stage. An incision not more than an inch in length is next made, extending outwards from than an inch in length is next made, the below the end of the ensiform cartilage. The muscles having been divided, and the peritoneum cantiously opened for about half an inch, or even less, the free edge of the omentum is carefully drawn out. It must then be floated in the warm bath prepared for it, and is ready for examination. It is, however, found very advantage-ous to cover those parts of it which do not lie under the microous to cover those parks of it which do not ne under the mero-scope with sheets of blotting-paper, for by this means the risk of exposure is diminished, and the undulating movements of the water are prevented, so that the object is rendered much steadier than it would otherwise be. So long as low powers are employed, this arrangement is sufficient; but if it is desired to use objectives of short focal distance, it is necessary to warm the objective by allowing a stream of water from the same

nurce as that which supplies the stage to pass round it.

The objects which present themselves to the observer are manifold. Veins and arteries may be studied of various dismeters, some of which are free, while others are surrounded by sheaths of tissue in which there are labyrinths of capillaries of surpassing beauty. Several new observations have already been made by this method. One of the most important, phy-siologically, is the fact that the maintenance of the capillary circulation is wonderfully dependent on temperature; and in particular, that any rise of temperature above the normal is in the highest degree injurious, partly, perhaps, from its direct influence on the blood corpuscies, but mainly because it pro-duces changes similar to those we have already noticed as quoes changes similar to those we have already noticed as occurring in batrachians after long exposure—viz., arrest of the capillary blood-stream and escape of the liquor sanguinis and corpuscles into the surrounding tissue.

CHLORAL IN TRAUMATIC TETANUS. - M. Bensasson relates a case of traumatic tetanus occurring in a lad 13 years of age, to whom he was called the third day after the appearance of the symptoms. He found him in a state of almost complete opisthotonos, and determined to try the effects of ehloral, and by about the thirty-fifth day the patient had com-pletely recovered. The entire quantity of chloral administered pietey recovered. Ine entire quantity of enfort administers amounted to 180 grammes, commencing with 4 grammes in the twenty-four hours, which almost immediately procurd him the sleep he had been so long utterly deprived of. The dose was gradually increased to 8 and 10 grammes in the twenty-four hours.— Press 46th, Belgs, March 20.

ACCIDENT STATISTICS. -An Englishman's risk of dying (says the Engineer) by strangulation is six times as great as of being killed on a railway, whether by his own carelessness or by an accident. If his own carelessness be excluded from the timate, his risk of death by hanging is 130 times as great. Ninety-nine times as many people die of cancer in England as are killed on railways. Excluding, as before, the element of carelessness, 2165 persons will die of cancer to one killed on a railway. In England, during five years, 333 accidents occurred railway. In Logiana, during ave years, 353 accidents occurred —200 from collision, 77 from getting off the line, 36 from damage to machinery, and 20 from other causes. For fourteen years, from 1855 to 1869, one person was killed to 7,151,301 ransported.

LECTURES ON EXPERIMENTAL AND PRACTICAL MEDICINE.

By BENJAMIN W. RICHARDSON, M.D., F.R.S.

A THEORY OF A NERVOUS ATMOSPHERE.(a)

LECTURE I. GENTLEMEN.-The study of the functions of the nerrous systems of animals has, since the days of the illustrions Willis, been the most fascinating of physiological pursuits, and, at the same time, the most deceptive. Willis, if I read him corthe same time, the most deceptive. While, it is reached, recelly, grasped, in his primitive and wonderful researches, more of the truth and more of the difficulty of research than any other single observer who has followed him; and although, any other angle conserver who has tologwed him; ann atmonger, in the two hundred years that have elapsed since his time, thousands of experimental inquiries have been instituted, and, I had almost asid, thousands of hypotheses have been framed and given forth, work remains before us of the present day which, except by the haid of some grand generalisation founded which, except by the aid or some grana generalization remove on facts of observation, can in no way be expected to be accom-plished in our generation. For this important truth requires to be laid bare whenever we touch on the subject of nervous action: that every hour not only brings something new to be learned, but something old, also, to be questioned or relearned which we have thought wholly accepted or discarded. Take, for example, theone mechanism—the current or motion that passes, or is assumed to pass, along the fibres of nerve from the centres towards the periphery, and from the periphery towards the centres. What is this? Is it an imponderable agency, or is it a refined fluid with which the nerves are charged, a fluid susceptible of motion by any and every force, by heat, by mere mechanical impulse, by electrical excitation, by light; or is it derived from one force which the nerve simply and purely conducts, as the metallic wire conducts the electrical charge? On these points, it seems to me, we stand in much the same position as the older physiologists stood when Haller endeavoured to reason upon the rate at which an impression travels from the brain to the muscles, and supplied the sentence—" Ita invenio, summam tamen celeritatem esse muscularis liquidi, ut non minus quam 9000 pedes ni minuto primo percurrat."(b) I mean that we wait to know how the motion is transmitted, and what part the nerves play; whether they lay up force, produce it, convey it, or perform all these duties.

MUNRO ON A NERVOUS FLUID. Theoriginal idea respecting nervous function is well described by the anatomist Alexander Munro. Most authors, he tells us, up to the time when he wrote (1783), supposed that the nerves are tubes or ducts conveying a fluid secreted in the brain, the cerebellum, and spinal marrow. But, he adds, of late years, several ingenious physiologists have contended that a secreted fluid would be too inert for serving the offices performed by the nerves, and therefore have supposed that the nerves conduct a fluid the same as, or similar to, the electrical fluid. These philosophers reason, he continues, that two arguments stand on their side-one, the rapidity of motion through the nerves; and the other, that some animals, as the torpedo and the gymnotus electricus, have the power of giving an electrical shook, and that, or dissecting these animals, a piece of machinery proper to them is discovered, in which large and numerous nerves terminate. Thence he (Murre) undertakes to refute these arguments. Of the first, the reasoning on the ques-tion of velocity, he arges that, if the aerres are constantly filled or charged with fluid (which, from our constantly perceiving injury done to even the most remote part, we have reason, he thinks, to suppose must be the case), an impulse given to that fluid thinks, to suppose must be incease), an impuse given or the most distant organ, although the velocity of the fluid be very small. Nay, in fact we find, after cutting through the merce of a muscle, that, by irritating the nerve, repeated motions can be per-formed; whereas, by Dr. Haller's theory, of great velocity from end to end of the nerve, as the nerve now wants supply from the reservoir in the brain, the fluid should be exhausted by a single effort of the muscle. Such argument as this no more proves, he contends, that the nervous finid travels with great velocity, than our letting out, in the space of a minute, a hundred successive drops of water from the end of a pipe a

mile distant from the reservoir which filled it, would prove that the water in that pipe was moving at the rate of a hundred miles a minute.

and, as two the argument on the torpede and gymnotise, observes, he arges that all we can conclude from the facts fa, that the nerves enable the animal to perform its proper office of collecting the electrical fluid, but without directly furnishing to it any of that fluid—just as we, by rubbing a glass tube, excite electricity without there being any reason to suspect that the electrical matter is in particular derived from the nerves of our hand, since the electricity outdoot are electricity outdoot are applied excited by the hand of a dead man as by that of a living rubbed against the glass with the same force.

Thus Munro in his day endeavours to refute the hypothesis of electrical current in nerve, and of it as the excitate of natural muscular motion; and to what he has said already he brings forward other and cogent arguments. When he cuts a nerve across and brings its parts again into contiguity, he does not, he maintains, restore the offices of the nerve immediately. Nay, when he divides a nerve in a frog, and lets the divided parts grow together again, the influence of the nerve beyond the insiston is, generally, not restored. On the other hand, animal, and the experiment of producing repeated contractions of muscle by pressing on a nerve after cutting it across, indicate that the energy depends on matter capable; of being affected by

"This hypothesis is simple, but it is not, astmix too successive proved. Still, to say that the officer of the nerves are not performed by a secreted fluid merely because we cannot comprehend how any part of the blood, or any humour prepared from it, could render the mind sensible of an injury or throw a muscle into action, is saying a great deal too much; for in the generation of animals effects more incomprehensible and astonishing seem to depend ovaria—the brain, the nerves, the nervous energy, and the complex fabries of other organs being thereby produced.(c)

As it is refreshing oftentimes to listen to the simple and natural expressions of children on things in nature which they are trying to comprehend, so is it refreshing oftentimes to read, in philosophy, the utterances of those who first began to study Nature in the way ahe opens herself to the first searches to study Nature in the way she op-nes hereed to the first searches after her secrets, and I. concess me, the reading of Munro, which I have rentured to revive, conveys to my mind a charming freshness of thought, and a suggestive lesson much to be valued. When, again, I turn to another chapter of his book, on the question "Whether the nerves convey nourishment to our organs," I find a new freshre way to the property of the control of the conveys the control of the conveys the convey sent moment is the fact that even yet we are uncertain wheth the original theory of a subtle or refined fluid charging the nervous matter, and capable of being affected by simple pressure, be not correct after all, and whether the study of the phenomena of electrical manifestations which Galvani mainly instituted, and which have since been pursued with so much untiring minuteness of industry, may not all be a series of independent facts, produced often by the experimenters themselves, or running produced often by the experimenters tiemselves, or tuning only coincidently, when not produced, with the actual pheno-mena which Nature presents to the observer. It seems to me the most reasonable of propositions that the blood, in the decumpositions to which it is subjected in the extreme parts of the organism—in those vital parts which lie, as I may say, on the banks of the stream of blood—should yield, as our earlier the panks or the stream of piood—should yield, as our earlier masters taught, a true physical quality which the nervous system should have the power of claiming to itself, which should pervade the nervous matter, which should hold the whole nervous system in one connected bond, while, at the same time, it should allow of the local independency of parts, and which should be subject to impression, not from one kind of impulse or vis, but from any to which it may be subjected —calorific, mechanical, electrical, chemical. It is, in short, essential to all theories of vibratory motions to presuppose the existence of a veritable ether, in which the more solid particles, atoms, or molecules of matter are distributed, and by which, through vibration, the parts of matter are put into motion. Carry, then, this same view to the animal body: supmotion. Carry, then, this same view or ine samulat oddy: sup-pose a mechanism such as the nervous system, facilitie where needed, protected and fixed where needed, central, linear, peripheral, everywhere built upon bloodvessel and blood cur-rent, and everywhere capable, where there is vessel and blood,

 ⁽a) Preliminary thesis to a course of three lectures on the primary results of organic nerrous shock, recently delivered in London, Bradford, and York.

⁽b) Haller, "Elementa Physiologise Corporis Humani," L. x.

⁽c) "Observations on the Structure and Functions of the Nervous System." By Alexander Munro, M.D. Edinburgh. 1783.

of taxing up from blood a product of the decomposition of blood, the resultant of chemical change; suppose this mechanism persistent in the living body, and what do we endow the body with less than with a subtle spirit, which vibrates to crary implies, and which during life is dependent on the organism for its development; which is indeed a spirit, which vibrates to crary implies, and which during life is dependent on the organism for its development; which is indeed a spirit, which is received, is comminented, is felt, is known? To my view, there is reason in this theory. To my view, the nerves, without the essential physical quality with which they are charged in life, are as the arteries without blood—the silent, emptied channels of what once was a living thing. To my view, nevers may practically bleed during life, as vessels do—bleed, not blood, but a derivative of blood, to my view, what commonly is adviced reality, and edmite as that physical hemorrhage from bloodvessel to which, in effect, in symptom, it is so near altitude.

ORIGINS OF ELECTRICAL HYPOTHESES.

When, in 1746, Mr. Cuneus, of Leyden, holding in one hand a giasa jar containing water in communication with the prime conductor of a frictional electric machine, unconsciously charged the jar, and, on removing the wire with the hand that was free, got, for the first time in the history of science, a strong electric shock, he, naturally enough, was not the only converted by the property of Leyden, taking also a shock, writes to Resimulting the contract of the science, and the strong has arm, aboutders, and cheet took away his breath, so that he was two days before he got over his alarm, to the cause of which he solemnly declares he would not again be subjected for the whole hingidom of Prance. But after Muschenhoeck, other means, more varieties one, repeated the experiment, until the contraction of the center of the civilies world.

When, in a later day—viz., about 1755—Benjamin Franklin illustrated the singular experiment of "knocking down" hix men from the discharge of two large jars by laying the end of hix men from the discharge of two large jars by laying the end of hix man on the head of the second, the hand of the second man on the head of the third, and so on to the last man, who held the chain that was connected with the inside of the jars; and when, on making the circuit complete, the men all dropped together can be described by the describing the described by th

When, later still—in 1790—Galvani, working his slectric machine near to some frogs that had been prepared for the purpose of furnishing sick Mrs. Galvani (at the suggestion of her Physician) with a dish of frog-broth, saw the muscles of the animals thrown into active motion by the inductive action of the electricity of the conductor upon the muscles, a line of research was instituted, the results of which so entranced the physician of the second control of the physician of the second phrase, and the idea that electric force and fine a homehold phrase, and the idea that electric force and a second the same force, became, for a moment, an accepted article of belief.

When, in 1803, Aldini, the learned and enthusiastic follower and nephew of Galvani, restored what seemed to be the phenomena of living motion in a malefactor an hour dead, on a cold day, the marvel of mankind still increased.

When, once more, in times nearer to our own, the electromagnetic machine came into me, and it was learned that magnetic machine came into me, and it was learned that the heads be made to grasp the poles of the machine at the time it is in action, the muscles are drawn against the will into vehement contraction, the marvel intensified, and the electrical or electro-magnetical character of the force which animates the living organism became such a strict article of belief, it three completely into the shade all the reasoning of the older physiologists; had they never been born they had hardly been more forcetter—more silent were

hardly been more forgotten—more silent men.
It is no fancy or pleasure of mine to under-astimate the interrening chain of great and startling labour which connects
the old world of thought with the new. It admit the singular
wonder of this fact—that I can, by the contact of the poles of
a battery, make the muscles of an animal recently dead move
again in simulation of the motion of life. I know that when
own bands I feel as though my will were connected by a
power like unto its own, but so much stronger that it is
subject to the foreign mastery. This is clear enough—
imple enough—but is it all? Were it all, the electrical
theory of animal motion were indeed complete. We might

fail then, as we fail now, to discover the origin of the force within the body, we might lid discover the animal electrical mechanisms of the discover that animal electrical sparatus the same animal electrical sparatus and the electrical apparatus and the electrical apparatus and the electrical apparatus and the living impulsive force was electrical and nothing electroscipate of the same and the same and

I do more than this: I take an organic chemical substance. The control of the con

of muscular fibre, universal in its character.

or maneular tures, unlessed in the reaction of a negative management of the management of the section of a negative management of the section of cold, the above-named facts are quite sufficient to demonstrate that arither electricity nor say other initiative force is specially and alone concerned in teppagation of the motion of muscle. It is clear that many of the influences which excite to motion lie out of the body altogether, and affect by contact; some are so subtle—those, for instance, which we call emotional—that we have more difficulty in understanding them than in understanding the action of electriinduction; some appear to be within the body, products of a steady-going source of motion, over which we have no elecminate control, and which has they are the control of the protainate control, and which has they are the pro-

the involuntary organs into living settion.

Thus, the longer we think of the phenomena of mascular motion—and, indeed, of all motion in the living animal boly—the less we are able to regard with favour, on the evidence before us, the hypothesis of one force in the organism, and of nerves and nervous centres as producers and conductors of that force, while we are the more included, not to take in every motion as belonging to our living receptive organisation. But in order rightly to conceive the adaptation of the organism to the universe, the ideal of a nervous duid, a true physical something pervading the nervous system, as the first neuro-physicists taught, is indispensable. It, and it alone, affords the connecting-link between force—flectional, if you will—move a mancle that has actually passed into the inertia of death !—Why, but that the mascifferent control of the control

THEORY OF A GASHOUS OR VAPOROUS ATMOSPHERE OF NERVOUS MATTER.

The hypothesis of the nervous matter being the receptacle of a special nervous fluid—held by the earlier neuro-philoso-phers—was abandoned, as we have seen, to be succeeded by the phers—was abandoned, as we have seen, to be succeeded by the hypothesis of the nervous structures charged with electrical force, such force being also liberated by the nervous system. The earlier hypothesis however, was and is, as a basis of research, by carrier nypoteness nowever, was nnn is, as nomin or research, or far the most important hypothesis, but it contained an obvious error in this, that its advocates thought the nerrous fluid a veritable liquid, which was, as they said, "secreted" by the brain and nerves, as other fluids are secreted by glands. They were led to that view of a fluid naturally enough, because they possessed none of our modern knowledge about organic vapours postessen none or our motern knowlenge arout organic vapours and of compound organic gases having specific boiling points, specific weights, specific tensions at different temperatures and pressures, and specific powers of conduction of different kinds of force. We are more fortunately circumstanced, for we are notes from a reinford fortunately curcumstanced, for we are conversant with the facts named, in relation to an infinite number of vapours, and we know how living action is modified by the introduction of some vapours into the body. Nay, on the hypothesis of the existence of a gaseous or vaporous atmosphere pervading nervous matter, there are certain descriptions of it which admit of being actually are certain descriptions of it which admit of being actually formulated, with the probability that they are near to the truth. We may think of such an atmosphere, for example, as a substance distilled over from blood, and containing carbon, Mance distinct over from mood, and commaning various, hydrogen, and perhaps nitrogen, as parts of it; as susceptible of condensation under cold; as susceptible of .l.—

ment by "mile promise, assessment in 16500; as capable of being discharged from portions of the nervous system, and of being discharged from portions of the nervous system, and as the commention, and as even from the whole under sufficient commotion, and as therefore demanding to be persistently reproduced. think of it as holding a precise normal tension at the natural heat of the body; as diffusible readily by heat; as retained longer in cold-blood animals than in warm-blooded animals after death, and lenger in warm-blood animals that have died under sudden exposure to cold than in those which have died in heat; as having in itself little cohesion, unless it be condensed round matter which can temporarily retain it; and as having, when condensed in organic matter, the power of conducting electrical vibration, light, heat, mechanical motion; we may think of it as charging the whole nervous system without excess of tension when the natural standard of health is perfect; as allowing other vapours to diffuse of heatin is perfect; as anowing other vapours to unuse through it; as becoming discharged by serecise when the demand for it is greater than the supply; as accumulating in the nervous onertres during sleep until the proper tension for motion is acquired when there is awakening; as present always in life, giving not only capacity for motion, but thiness of form in life, giving not only capacity for motion, but thiness of form and tension to the tissues; and as absent in shrunk death-

condensed, or lost by diffusion. A Spirit, truly, say you, this agent. Yea, truly a spirit, which the ancients thought of in the song and the dream, but which we now foresee as something that may one day pass from the retort into the condenser, to receive a new or retain

an old chemical name.

Before I finish this part of my discourse, I would indicate, in a few sentences, how conclusively the theory I have suggested a few sentences, how conclusively the theory I have suggested coincides with various best-known phenomen of life and discase; how it correlates, if I may so say. The hypothesis of an absolute fluid matter, a hquid, in the nervous system conveys an idea of grossness of matter incompatible with the refinement of motion peculiar to animal organisms; the hypothesis of an other peculiar to animal organisms; the hypothesis of an example of the second o two hypotheses the theory of the existence of an organic metallic vapour or gas having a specific weight approaching incume vapour or gas naturg a spectar wright approximate the weight of the outer atmosphere, distilling over into the nervous matter at every point where blood by its vessels comes into contact with nervous matter, condensable by easily, resolvable by easy chemical decomposition into new form of organic anbetance, and the explanation of action is simple beyond expectations are represented to action its imple seyond expectations are represented by the property of the respectation of the process there is application of the process there is application of the process there is application to produce sound, the communication of motion from the air to the tympanum is reproduced in the nervous atmosphere of the auditory tract, and so to the overclorum. When vibration of ether of space, in water of exercity and the process of the contraction of th light, impinges on the condensing retina, the communication of motion is reproduced in the optic tract, and so to the cerebrum. When solid particles of matter impinge on the periphery of the olfactory nerve, they excite direct vibration of the nervous atmosphere, and communicate odour. When a

mechanical or other impression is made to bear on the periphery or the cord of a nerve away from the senses, the communica-tion of motion again, direct through the nervous atmosphere to the cerebrum, is recognisable as painful or pleasant, accord-to the primitive force of the impression, pain being but excessive

motion or vibration, of the nervous atmosphere.

The nervous atmosphere, demanding matter and force for its production, becomes to us a source actually of motion. As water from the earth rises into vapour, and returns again in dew, or liquid, or snow, or hail, and by that change makes a circuit of motion, so the nervous vaporous atmosphere also making constant circuit of motion, is probably, in the fortus, the primary and inductive cause of the after respiratory actions,

and even of all actions that are involuntary.

The nervous atmosphere, diffused wherever nerve-fibre penctrates, gives the mobility of parts required for motion, s friction of particles, saves accumulation of force from friction,

Inction of partices, saves securities and equalises.

In the scaled cavities of the cranium and spinal canal, the nervous atmosphere is probably always in tension during home. waking hours, its pressure being compensated for during hours of repose by the less active cerebro-spinal fluid. In the open or repose by the less active cercero-spinal num. In the open parts of the body, in the muscles in the secerning organs, it charges the parts, keeping them in required tension, and fitting them ready for motion on disturbance of equilibrium.

To some extent, the norvous atmosphere will be influenced by variations of pressure, and probably, also, by variations of condition of the cateroplatine where a My are as versistently observing a demonstration of experiment on a barometer. We feel variations of tension as clearly as we can be made to see them, feel them in limb, in joint, in brain, wherever there is nerve-

I have suggested that, under some conditions of disease, the nervous vapour may be exhausted, locally or generally. It may, I think, under other circumstances, be increased. In cases of ganglion of nerve following upon operation, we may assume such increase; in some conditions of brain it may inassume such increase; in some conditions of brain it may in-crease, and on increase produce apoplex, as from pressure. It may, I can see, accumulate in special contres of nervous structure, and become equalised by what may almost be called an explosion or storm; I mean by a paroxyam of convulsire motion.

The nervous atmosphere, like the outer atmosphere, may be practically poisoned—i.e., it may have diffused through it by laws of simple diffusion other gases or vapours which inter-fere with its natural function. Thus, it may be changed by its exposure to gases and vapours derived from without, and reaching it through the blood, or even directly through nerve; or it may be changed by exposure to gases of decomposition produced by disease in the body itself. It may be influenced by electrical conditions of the external atmosphere; it may even be susceptible of decomposition under great force, such as lightning.

All these, and many other considerations, sweep across the mind when once the idea of an inner nervous atmosphere is mind when once the idea of an inner nervous atmosphere is simply realised. The theory harmonises with our sense of observation and practice. Nervous collapse—Does it not seem clearer? Effects of pressure on nervous matter—Do they not appear less difficult to comprehend? Rapid destruction by subtle organic poisons—Is that not explained more easily than by old hypotheses? And the action of remedies—Does not the study of that action now expand? Suppose I diffuse into the blood a vapour which prevents chemical change, and stops by exclusion the distillation of the nervous vapour—what are the results? Suppose I introduce a gas or vapour, or liberate one in the body, so that it may diffuse through the nerrous atmosphere without arresting chemical force—vapour of chloroform, for instance, or of alcohol—what are the results? Interference with motion, insensibility, ansesthesia. The foreign vapour that has been introduced benumbs; in other words, it interferes with the physical conduction of impressions through what should be the cloudless atmosphere between the outer and the inner existence.

I will deal with this subject experimentally another day.

IT is said that Dr. Muter, the well-known analytical chemist, has recently examined twenty specimens of bread bought in bakers' shops in the south of London, and found that sixteen out of the twenty contained blue virio, or sulphate of cupper. Of the sixteen four-pound loaves examined, the smallest quantity found in any one was 0.43 grains, while the worst sample contained 1.82.

ORIGINAL COMMUNICATIONS.

EPIDEMICS OF SMALL POX, SCARLATINA. AND MEASLES IN ROTTERDAM.

FROM THE YEAR 1778 TO 1811, AND FROM 1815 TO 1870.

By Dr. A. M. BALLOT.

THE English periodicals last year frequently made mention of the occurrence of scarlatina. The annual reports of the Registrar-General state that scarlatina frequently makes great ravages in different parts of the United Kingdom.

In our country, on the contrary, it had appeared to me that scarlatina was less frequent, and that, whatever was the ease in other parts of our country, it certainly was so in Rotterdam. But in proportion as scarlatina was less frequent, the epidemies of measles were more frequent. For some years I collected, therefore, the mortality of sixty years from scarlatina, measles, and also from small-pox. To notice the influence on the last malady of vaccination. I divided them into two equal periods of thirty years each, and the result them into two equal periods of thirty years each, and the resunt was that the metality of small-pox was five times less, that of scarlatins four times less; on the contrary, that of measter three times greater, in the second period than in the first. Seeing that the difference was so great, I determined to converge the property of t

years each.

The first year for which there exist some statistics of the different causes of death in Rotterdam is the year 1778; before this time there is sometimes mention made of a great epidemic, but no trace of any regular mortuary statistics. In the said year 1778 there was published here monthly a semi-official paper year 1778 there was published acre monthly a semi-ouscial paper containing the births, deaths, and marriages, and at the end of this paper was a little table of mortuary statistics. Now, it is true that some curious names of maladies, or, better, of causes of death, are mentioned there; and certainly these tables could of death, are mentioned there; and certainly these takes could not serve as a model for an international mortiaary statistic; but for my purpose I believe that I can use them without heattime—First, because maldides, as small-pax, scatlatina, measles, are universally known by the people themselves, and the faults that occur will balance cach other. For example, in a year when the scarlatina made great ravages, you will find also some cases of meades, which cases I believe to be often rather dubious; but, on the other hand, in a year of a great epidemic of measles, you will find mention made of some deaths caused by scarlatina, which cases probably belong, at least for a part, to the measles; so the different faults correct each other. Secondly, it is necessary to know the source whence the statistics are collected; if this source is more or less pure. Now for that time the statistics are collected with great care ; but, nevertheless, as faults there must be, I would not have made nevertheress, as raults there must be, I would not have made use of them if the differences in the three periods had been very small. But, as the reader will see, the differences are very great; and, as the numbers are great, the differences are much

great; and, as the numbers are great, the differences are much too great to attribute then to needled all circumstances.

During some years, there is no mention made of the causes of death, and so my table is interrupted here, and ends with the year 1870 instead of 1807. The later the statistics, so much greater the possibility of correctness.

greater the possibility of correctness. The statistics, so much statistics, are much statistics, and the statistics, are not statistics, and the statistics are considered as a statistic and the statistics caused by the Medical laws of 1805. Since that year the Doctors are obliged to give a certificate containing the cause of death of their patients; and although the opinious on a malady may differ, or the diagnosis may be less true, the canse of death of their patients; and although the opinions on a malady may differ, or the diagnosis may be less true, the reigning maladies of our country will be more correctly known than before. Yearly an account is given to the King, of the actions of the Medical department,(a) and it contains the mortuary statistics of the most reigning maladies in the form of the "deaths from several causes" mentioned in the annual transfer of the deaths from several causes. This consideration for the mortiary statistics of the most customs "mentioned in the annual reports of the "deaths from several causes" mentioned in the annual reports of the Registrar-General. This promises much for the future; for the moment, the time is yet too short since the future; for the moment, the time is yet too short since the beginning of these statistics to make general deductions from

My table ends with the year 1870; that is very lucky, for if the year 1871 had to be inclosed, all my reasonings as to the constant diminution of the deaths from small pox had been thrown over by the present fearful epidemic, the greatest of this century. Is this, now, a proof that I only played with ciphers, and made use of the so-called " Art de grouper les chiffres," and should I not do better not to show my table? On the contrary. Even supposing theredid rage this year an epidemic of scarlating of the same proportions as now is the case with small-pox, I should say, it appears that the diminution of the epidemic of searlating was only a mere accident, but the ciphers would not be less true. But now, with this epidemic of small-pox, I saythis epidemic under which we live now is a shame. my table shows the constant diminution of the deaths from small-pox, and the more the effectiveness of vaccination is thereby proved in the manner the most clear, the more shameful is the progressive abstention from vaccination in the last few years. We now see what an enemy we are constantly nourishing amongst us, and what his weapone are.

My table needs little explanation. The little lines indicate that in those years there were no deaths from the maladisamen-

tioned at the head of the column,

Table indicating the Deaths from Small-pex, Scarlatina, and Measles in Rotterdam from the Year 1788 to 1811, and from 1815 to 1870.

	Fin	rst I	eriod	l.		S	ecos	od Pe	riod.		Third Period.				
3	ears.		Small-pox.	Searlatina.	Meastes.	You	279.	Small-pox.	Krarlatina.	Measles.	Yes	29.	Small-pox.	Bearlatinn,	Measies.
Tiro	100-		-	440	-	125	_	9	35		1841		395	2	-
1779	111		2	127				Amer.		-	16.42	117	- 41	- 10	10
	100		45	11		1610		2	5		1543		3	10	2
1781			424	- 4	- 4	1811		-	100		1844	***	13	31	
1783			- 6		T.	1815		_	12	1	1845	80.0	21	11	
1784	**		8	16		1816	* 4 *	6	43	-	12646		35	11	6
1785		***	214	- 1		1817	***	122	170	237	1547		-	11	16
1786			202	-0.0		1818		391	29		1849	11.0	~-	4	-
1787				66		1819	***	10	34		1849		. 3	3	
1786			1	66	-	1820	***	1	25		1850	***	158	17	12
1769			767	6		1821		2	95		1861		45	- 6	
1790			35	2		1822		2	12		1953	100	11,	6	5
1791			370	-		1823		6	24		1868	***	6	- 8	11
1792			122	4	*-	1924		2	12		1854		1		
1793			263	99	-	1925		207	8		1855		3	11	62
1794		***	287	79		1825	***	1-12	-	-	1456	***	84	3	
1795			69	11					7		1557	***	124	-	-
1796			14	-11	1	1828	***	-			1858	***	29	8	13
1797			904	- 8	411	1829		-	40		1859		21	2	
1758		**	54	- 0		1831		109	8		(NEO	***	- 1	- 6	15
1799			2	48		1832	***	215	13		1861	***	18	- 3	
1900			305	122		1833	***	210			1662		152	1	
1801			178	59		1534			30			***	34	8	29
1802			161	29		1835	***	390	240		1864		288	2	- 2
1903			217	29		15/6	***	69	295		1866	***	125	27	24 83
1994			884	10		1837	***	8	994		1NGT	=-(5	13	2
1805			1,	35		1838		3	4		1968			8	21
1806			25	12		1830	***	1	25		1569		1	1	9
1907			506	94		1840		59	1		1570		56	6	10
Fotal			53161	048	504			1648	069	555		-	1318	196	239
-	CTILEY	,		3,212	-			9,000	-	1000		-	1313	-	23

Already, in superficially inspecting the table, it strikes you Already, in superincular inspecting the table, it strikes your what I mentioned previously—namely, the diministion of this yet more so whilst the population was always increasing. This will be made more clear when we divide the total number of each period by 30, so that we have the yearly average mortality of the different maladies, and when we reduce them to the average population or to a constant number of the population.

Table II.

Maladies.	Periods.	Total number of deaths.	Deuths per year.	1 death in inha- bitants.	Deaths in 100,000 inha- bitants.
Small-pox	First period	5,316	177	300	333
oman-box	Becond period	1,648	55	1,254	80
1	Third period	1,313	85 35	2,243	44
(First period	1,048	35	1,514	16
Scarlatina	Second period	1,089	36	1,916	52
,	Third period	198	6.2	15,169	6.6
	First period	504	17 51	3,117	32
Measles	Becond period	1.555	81	1,353	32 73
	Third period	2,356	80	1,233	81

When we examine now the different maladies, we find the small-pox very diminishing from the first to the second period;

⁽a) This account is given: Verslag aan den Koning van de bevindingen en handelingen van het geneeskondig staatstoezicht in het jaar.

⁽b) The population of Rotterdam is estimated in the first period as 55,212 inhabitants; from 1816 to 1840 it increased from 60,291 to 78,598, and till the year 1870 to 121,027.

and although a little less, the diminutions from the second to and atmongs a little less, the diministrons from the second to the third period remains very great. The second period begins shortly after the introduction of vaccination, and it is pro-bable that in this period the vaccination was better applied bable that in this period the vaccination was better appuied than later on. The decreasing numbers show the influence of reccinction on this malady; but because this diminution is tisself, it and is not caused by the extinction of the malady itself, it is that as soon as the preservative in neglected the malady will assume again its old hideous proportions. And as in the last years a great deal of the population is not vaccinated—i.e., of the lower classes, the greatest part of those who do not yet go to school—the fearful epidemic under which we

live now is easily explained.

As to scarlatina, I remarked that this malady seems to be As to scarating, I remarked that this manay seems to be leaving us, and by examining the table you will see my opinion confirmed. The numbers of the three periods stand to each other as 66; 52: 65; the difference between the first and second period is not so great as between the second and third, but almost at the end of the second period we find a great

but almost at the end of the second persons.

epidemic, the greatest of all the ninety years.

In examining the first period we find many years where the an examining the inst period we and many years where signortality of scartains is not so very little. We find, then, the years 1778 and 1779 together with 245 deaths from scarlet fever, 1786 and 1787 with 132, 1793 and 1794 with 178, 1799 to 1801 with 234, and 1807 with 99 deaths. The greatest in-

terval between two epidemics is here seven years.

In the second period, we find only mentioned the year 1811 with 100, 1817 with 120, 1821 with 95, and 1835 with 970 deaths in one year. The interest severets see epidemics of 1817 and 1835 is eighteen years. But after the last epidemic you find no other epidemic of scarlatina in the table, and this during a period of thirty-five years; for

In the third period, the greatest mortality was 31, 17, and 13, and if we compare these numbers with the increased population, we cannot say that the scarlatina appeared in those

years as epidemic.

In opposition to the deaths from the first-mentioned epidemics, those from measles are steadily increasing. The last period shows a gross mortality exactly five times greater than that of the first period, and, if corrected for the increased popu-lation, it still is nearly two and a half times greater. The numbers of the three periods stand to each other as 32: 73: 81.

In the first period it is the inverse of the scarlatina; except the years 1783 and 1789, with a death-rate of 140 and 87, there the years 1.50 and 1.75, with a death-rate of 140 and 51 there were no epidemics of measles of any signification. In many years there were no measles at all. In this period there is only one epidemic, with 100 deaths, or 2 in 1000 inhabitants.

In the second period we find, also, many years in which there occurred no measles; but here we find already some years with occurred no measies; but here we find already some years with more extensive epidemies, as the years 1817, 1829 and 1833, with 237, 257, and 237 deaths. In this period there are fire years with more than 100 deaths; three there are with 4 and 5 deaths per 1000 inhabitants.

The last period has two years only without deaths from The last period has two years only without deaths from the period of the period with the period with

The epidemics of 1855, 1863, and 1868 were very severe; in the The epidemics of 1805, 1905, and 1805 were very severe; in see dirst the death-rate was 426. There were ten years with more than 100 deaths, or with a death-rate of 1½ to 5 per 1000 inhabitants. When we now consider that, although an epidemic of measies can be very extensive and intense, the mortality of this disease is not very great, we can comprehend what a quantity, how many thousands, of measie patients there must have been here in this last period.

To recapitulate: We saw (1) that the epidemics of small-To recapitalize: we saw (1) that the epidemics or small-pox were steadily diminishing; (2) that those of scarlatina also diminished, and were almost disappearing from the table; and (3) that, on the contrary, those of measles were always in-

What can be the reason of this? Why is the susceptibility for measles increased, and that for scarlatina diminished? Can it be that, in general, the sanitary condition is so much ameliorated that scarlatina cannot find here a fcoting? It may be that some circumstances which have influence on the propagation of scarlatina are altered; but that the general sanitary condition is much bettered is not the case. The in-crease of the epidemics of measles is less strange, for the causes of this malady would be similar to the others, which are the results of overcrowding.

Although both maladies-scarlatina and measles-are con-Atthough som manages—scarating and messars—are contagions, there seems to be a great difference in their contagiosity. In the past year, I witnessed a nice case of scardatina in a poor family with four children—I say nice, because it was, so to say, a model case for a student. The little patient recovered, and neither the other children, nor the parents, nor the neighbours were attacked, whilst nothing was done to prevent the spread of the disease.

Although I cannot give an oversight of many years how it is with the frequency of scarlatina and measles in our country, the above-mentioned reports of our Medical Department show already that it is not everywhere as in Rotterdam. I arrange, therefore, two small tables of the two greatest provinces of our country, with the two greatest cities in them, and the total mortality of scarlatina and measles in the kingdom :-Scarlatina.

	Average popular tion, (c)	1966.	1867	1968	1969,	Total.	Per	1 death in inha- bitants,
	North Holland 570,74		430	182	87	790	192	2900
	Amsterdam 266,681	86	410	80	2	Ser.7	146	1900
	South Holland 679,956		36	11	8	67	16	42374
	Rotterdam 116,656		13	3	1	24	8	14511
	The Kingdom3,576,385	393	865	325	283	1506	391	9146
			Measl	c8.				
	Average popula- tion.(c)	1866.		1968.	1989.	Total.	Per year.	I death in inha- bitants.
	North Holland 570,742		153	520	241	1075	268	2129
	Amsterdam 266,681	143	29	289	189	649	162	1649
3	South Holland 679,950		163	597	125	1117	279	2470
	Rotterdum 116,650		31	243	25	355	88	1325
	The Kingdom3,576,382	854	710	169)	1095	4379	1094	3270

The difference in the mortality from scarlatina between the Woodrion almost as 1: 13. The mortanty West wat, and the North Holland falls for the greatest part on Amsterdam, in South Holland only for the half on Rotterdam. The proportion in the mortality from scariatina between Amsterdam and Rotterdam stands as 8:1. The mortality of scarlatina in the whole Kingdom is 1 in 10,000. Now, this difference in the mortality from scarlatina between North Holland with Amsterdam, and South Holland with Rotterdam does not exist for that of measles. There is a difference, but too little to be of any moment. After some years, this same difference may be on the other side.

As is to be seen, the mortality for the other provinces and towns is too insignificant to be of much moment; after many years, when we have greater numbers at our disposition, we can see if here, also, is a difference in the mortality of scarlatina,

And as to small-pox, I have little to add. The epidemics were always diminishing; but, as the diminution was only artificial, so by neglecting the prophylactic against the disease, it was natural that one day or other a great epidemic would follow.(d) As everywhere, so also here, there were many persons who

have warned against vaccination, and who attributed all sorts of nave warned against vaccination, and who attributed all sorts of maladics as originated by it. Then there were many persons very careless; but, thirdly, in the last period falls the origin of a sect of puritans, called Separatists, who profess all pro-phylactic measures to be a sin against Providence, and the greater part of the Protestant poorer class belongs to them. The poor children are the victims thereof, and, although the parents who have been vaccinated in their youth rest unattacked, for the greatest part, in the midst of an immense infection, this fact has no influence with them. Amongst the better classes, which are for the greater part revaccinated, this year the malady is as good as unknown; and the very, very single cases which occur are amongst those who were against revaccination and amidst great infection.

Rotterdam.

DETERIORATION OF MILK BY FEEDING-BOTTLES. -Professor Gunning, the Government Analyst at Amsterdam, writes: — "I object to the infants' feeding-bottles in all instances when any part of them is composed of caoutchouc or indiarubber, or any like material. There is nothing so ill-suited to the constitution of the human body as the material in ques-When, in consequence of suction, the pores of the caoutchouc are enlarged, some portion of milk always remains behind in them, which cannot, or, at least, cannot without great difficulty, be removed. This milk quickly becomes bad, and spoils the fresh milk with which it comes in contact, caoutchouc material in question is made up of several ingrecontinuou maseriai in question in mase up of several ingra-dienta. White zinc, or white lead, is very commonly employed, which is very poissonus. My objections are not founded ex-clusively on d priori conclusions. In this country many fatal cases have happened among infants, which, on solid grounds, may be ascribed to the use of these bottles."

⁽c) Mean of the population of four years.
(d) On April 29 we have already a small-pox mortality of 1368 in this year in Rotterdam.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

DISPUTED POINTS IN THE DOCTRINE OF SYPHILIS.

Some time ago we issued to a few of our most esteemed COME time ago we assued to a few of our most esteemed authorities a series of queries on apphilis, and having now received, in almost every instance, suitable replies, we proceed to lay the information thus acquired before our readers.

Before doing so, however, we beg leave to return our most cordial thanks to the gentlemen who have taken the trouble to reply to these queries. In certain instances we could give, were it not invidious where all have been most considerate, the pains taken to give exact and reliable information have been very great. A few of our inquiry papers have not yet been returned, and these we shall still be glad to receive, as well as any facts of interest our readers may care to forward to us. No one will under-estimate the value of a thorough sifting of fact and doctrine on this most important subject, when it is considered what consequences the acceptance or not of certain doctrines may involve for interpretation accepted doctrine

Our first query was—
"What are the ordinary primary lesions (a) in man, (b) in

woman ? woman?
The reply has been invariably that there are twokinds at least, hard and soft; though some tell us they have no great experience of sores in females. Those who have such in all cases state that hard sores are much more rare in females than in males. Mr. James R. Lanc, Senior Surgeon to the London Fermale Lock Hospital, perhaps the widest field for observation in the kingdom, says—"The soft sore and the hard sore are the ordinary primary lesions. Well-marked hard sores are rare in

Mr. Buxton Shillitoe, who long had charge of the out-patient department of the same Hospital in Dean-street, where he saw the females, says—"In both you may have hard sores, beginning from a mere papule or superficial sore, and in both

organing Homa a sore papers or superment sore, and m oun-you may have mixed sores and soft sores."

N. Berkeley Hill, who more recently has been at the head of the same department, enters into fuller detail. Hesays there may be found—"(1) The suppurating sore, with spongy surface, sharply cut, and undermined edges; (2) the supperficial suppura-sharply cut, and undermined edges; (2) the supperficial suppurabe found—"(1) Ane suppurations, askaply out, and undermined edges; (2) the superficial suppurating erosion; (3) the serpiginous, irregular, suppurating soreating erosion; (3) the serpiginous, irregular, suppurating soreatines are not. 1, believe, necessarily connected with syphilis. Also, (1) the crosion with viscid diphtheritic secretion and hard elevated base; (2) the hard-based suppurating ulcer; (3) the elevated papule, either desquamating, or, if kept moist, secreting situal subcharges, and thus resembling, and closely allied to, the situation of the secretary of the secretary of the secretary of the secretary in the secretary of the secretary of the secretary in secretary in secretary is suppured to the secretary of the secretary is the secretary of the secretary is suppured to the says, in the secretary of the secretary

testimony to the rarity of hard sores in women. He says, in reply:—" Soft and hard chancres in man—the former most prevalent; and the same in the female; but in the woman the hard chancre is so rare that its existence has been by some actually denied."

actually densed.

Nor is the statement of Mr. Gascoyen, Surgeon to the London
Female Look in the Harrow-road, of less importance and value.

It is asys:—"The ordinary primary epphilitic leatons (a) in the
are series upon the genital organs, especially at the corons
glandic and on the inpure surface of the foreskin; (b) in women gandle and on the inher surface or the rowsen; (e) in women similar sores situated upon any part of the vulva—but their most usual seak is at the inferior commissure or on the inner surface of the symphe. The base of these sores differs much in different individuals and according to situation, varying in in different mutratums has according to animation, varying in character from a large mass of almost stony hardness down to a mere inflammatory thickening. The amount of deposit or-induration at the base of a sore is seldom so great on the female genitals as on the male; nor does it continue so long."

The only other gentleman who gave us the benefit of his The only other gentleman who gave us the cenent of ms experience on these points is Dr. Barton, of Dublin. His state-ment is as follows:—"The ordinary primary lesions in man are superficial sores, with parchment induration; but the most frequent venereal sores in man are simple suppurating or soft sores. In women the great majority of the venereal sores are hardly to be distinguished from ordinary simple sores, whether afterwards they prove syphilitie or not."

With query No. 1 may be well combined query No. 3—

What are the varieties of sere recognised by you?"

Trains are an evaluations of some recognition by your sore; one
Mr. Gascoyou asym—0.1. Tree of all an immunitary diskersing,
which accretes pass freely throughout, and is prone, to take on
understries or sloughing section. The other is altested upon
a hard base, its accretion becomes serous or sore-puralent, and
it is very induction in its character. I do not, however, consider these sores to be distinct varieties of venercal disease, but as different forms of the same disease.

Dr. Macdonnell, of Dublin, recognises the following varieti recognises the following varieties.

-riz., "the 'simple' and the syphilitic.' Of the latter I recognise three varieties tolerably well marked—let, dry papele; 2nd, chancrons erosion; 3rd, hard sore." This is substantially

2nd, chancrons erosion; ore, more sore.

the grouping of Laneereaux.

Mr. Maunder recognises the hard and soft varieties; so does
Mr. Langston Parker; whilst Mr. J. R. Lane says, in reply to Mr. Langston Parker; whilst Mr. J. R. Lane says, in repy the query as to varieties—"The two sores above menisored. I consider phagodena an accidental complication, which may occur in either." Mr. Shillitor recognises three—the hard or specific, the soft or non-specific, and the mixed sores

Bumstead, the best-known American authority, is a vigorous

numeroat, the deex.gnewn American authority, is a vigories apporter of the twofold nature of these scores; but his belief of their non-interchain translation of their non-interchain translation of their non-interchain translation. The one, he says, is the presented of the control of the con disease, the history of the case terminating with its cicatrisa-tion and that of the bubo in the groin where present.

From all this, it is plain that there is no one sign to be relied upon in tenis, it is plain that there is no one sign to or enter-upon in the diagnosis of a primary sphilitic ulcer. The peculiar hardness which by many is held to be pathognomoio is not always present—any, as several of the above gentlemen testify, is rare in females; so that it would seem to depend testify, is rare in females; so that it would seem to deped rather on anatomical sector or structural characteristics han on rather on anatomical sector or structural characteristics has no hardness may be, and often is, to seem degree simulated by local inflammations, however excited. It is, quite true that so received by the significant control of the section of the section giving rise to symmetrical glandular enlargements in both groins, may be safely predicted to be the precursor of constitu-tion of the section of the se out indurated base may not be the origin of identical symptoms. This Practitioners will do well to bear in mind, if they value their own reputations.

(To be continued.)

CITY OF LONDON UNION.—The small-pox in District No. 1 is very much on the decrease. Vaccination had been general and successful. With one exception, all the desthe in this district occurred in unvaccinated persons. The In tass district occurred in unvaccinated persons.

Analgamation Committee have-decided on recommending deboard to reply to the Poor-law Board that in their opinion
Dr. Fowler's claim for compensation for loss of office should
be entertained only so far as regarded his annual salisy
and emoluments as district Medical Officer, making togethers

and emoluments as district Medical Officer, making togethers total of £166 2s. 4d. They also stated that, in their spinion, the powers given by the 30th and S1st Vict., cap. 106, sect. 20, were permissive and not compulsory.

SHEFFIELD.—At the meeting of the Board of Guardians, last week, Mr. Melluish, the Vaccination Officer, stated that at the date of his last report 144 persons were then under notice, and since the notices were served 131 had complied with the and since the notices were served 131 had compiled with the Act, leaving a small number from whom no certificate shale been sent in. He had gone through the Registra's abeet from March 1, 1870, to September 1, 1870. They contained 1244 entries:—470 had been vaccinated; those under solde at present were 243 [11, 61; "kirowals, 483; making storlad 1244. Only two cases of small-pox had come under his notice in the Sheffield township, and those shal not been vaccinated.

In the new merchant shipping code there is a clause providing for the Medical inspection of cabin as well as sterey passengers. In a joint report of the Liverpool Chamber Commerce, Shipowners' Association, Underwriter's Association, and other bodies, this clame is condement, it being myed that cabin passengers are able to judge for themselves.

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Medical Times and Gazette.

SATURDAY, MAY 6, 1871.

THE SMALL-POX EPIDEMIC.

A SLIGHT-very slight-decline in the registered deaths from small-pox in London was noticed last week. Instead of 276 there were 261 deaths recorded. Comparing the district mortality with that of the previous week, we find that the Northern and Southern districts still hold their bad preeminence, that in the Northern districts, where 64 deaths were recorded in the week ending April 22, there were 78 deaths registered last week, while in the South districts the deaths inst week were 97 against 99 the week before. In all the other districts there has been a reduction of mortality. Small-pox, we learn, was most fatal last week in Battersea, Newington, Bethnal-green, and Islington. A severe outbreak has occurred in Southampton, where small-pox became epidemic towards the end of last quarter. In the past four weeks, 24, 12, 14, and 27 deaths respectively have been referred to it, equivalent to an annual death-rate of 18 per 1000. We may estimate the meaning of this when we state that in London last week the annual small-pox death-rate was equal to 4 per 1000, in Liverpool to 7 per 1000, and at Newcastle to 5 per 1000. Here, again, there is the report of neglected vaccination.

Not only has small-pox of late been making considerable advances in the metropolis, but the character of the cases has been assuming greater virulence. The reports of the superintendents of the several Hospitals under the Asylum District Board all tend in the same direction. During the fortnight ending April 15, applications for admission were obliged to be refused both at Hampstead and Stockwell. At the Stockwell Small-pox Hospital, the committee, with very questionable propriety, have filled the corridors with convalescents. At the Hampstead Hospital no less a number than 443 patients were congregated on April 14, while 304 females (mostly convalescents) were accommodated in the old workhouse at Islington. Dr. Grieve is, we imagine, correct when he says that this is the largest number under a single Hospital administration in Great Britain. When we read in his report that the patients in the Hampstead Hospital come (many of them) from such distant parishes as Chelsea, Fulham, Shoreditch, Whitechapel, St. Olave's, Stepney, Poplar, etc., we cannot avoid repeating how much better it would have been to have established a number of smaller temporary Hospitals in localities more convenient to those districts of London. And with regard to the severity of the cases, Dr. Collie and Dr. Gayton at Homerton, and Dr. Grieve at Hampstead, all testify to the great increase of virulent and hamorrhagic cases, while Mr.

McCann, at Stockwell states that a large proportion of his admissions have been cases of suppressed small-pox, scarcely less dangerous than the hæmorrhagic form. At Homerton Fever Hospital, in addition, erysipelas broke out, but from what cause it is not stated. Dr. Collie mentions the interesting facts that, during all the time the latter Hospital has been open for small-pox, no revaccinated person has been admitted, and also that no vaccinated child has died there of the disease. Dr. Grieve also mentions in his report that out of 549 patients whose nationality he inquired into, only four were born in Ireland. The inference he draws is that this is a proof of the efficacious manner in which vaccination is carried out in that division of the United Kingdom. Possibly there may be some other reason assignable for this carious circumstance. The following summary, constructed from the reports of the several Hospitals, shows the number of cases received altogether during the fortnight from the several metropolitan unions :-

				Total	1			Total
St. Pancras			. `	190	St. Giles			27
Lambeth				168	Mile-end Old	Tow	'n	25
St. Saviour				140	Camberwell			25
Shoreditch				133	Chelsea .			22
Holborn				118	Strand .			22
Clapham & Y	Wand	wo	rth	117	Hampstead			22
T - Linem seres				100	A tatasuma .			01
Bethnal-gree	n.			101	Westminster			20
Hackney				77	Kensington			19
Marylebone				64	Poplar .			18
St. George's	Unio	n		62	Greenwich			12
Whitechapel				48	Stepney .			11
Paddington				34	Lewisham			6
City of Lone	lon			31	Woolwich		. 1	6
St. Olave's				28				

We were recently alluding to the fact that the Asylums Board were providing accommodation for others beside the pauper class. The extent to which they have done this appears from an analysis made by Dr. Grieve of the occupations of 223 male patients in the Hampstead Hospital on the night of the census. Out of the entire number there were but 40 who could be regarded as belonging to those classes which can with justice be called paupers—viz., 35 labourers, 3 coatermongers, and 2 of no occupation. The remaining 183 represented their occupations as follows, viz. :

Professional	men						6
Master trade	esme	n.					2
Railway and	l pos	t-offi	oe of	ficials	, etc.		8
Shopmen an	d cle	rks					24
Domestic set							3
Barmen, was	iters.	etc.					9
Skilled artis							94
Omnibus dr	vers	CRIT	nen.	stabl	emen,	etc.	26
Porters .							9
Seamen .							2

A similar statement as to the mode in which the women were employing themselves prior to the time when they were attacked with small-pox would be interesting.

We this week publish two important documents, to which we desire to direct particular attention. The one, proceeding from our own Registrar-General, shows distinctly that the present epidemic of small-pox broke out in the last quarter of 1870, and that it has been almost confined to four great centres of infection-namely, London, Liverpool, the mining districts of Durham and South Wales-the smaller local outbreaks being more or less distinctly traceable to communication with these centres. The coincidence of the outbreak of the epidemic in London with the arrival of large numbers of French emigrants, and the fact that small-pox has been in many cases clearly introduced by sailors into seaside towns, are pointed to by the Registrar-General as evidence that the epidemic originated to a great extent from our foreign communications. The other paper to which we refer is that of Dr. Ballot, of Rotterdam, which seems to teach this important lesson-namely, that up to the present time we have not arrived at the conditions

which govern the varying prevalence of our common epidemic disorders. Small-pox, measles, and scarlatina are diseases never absent from our population altogether, but sometimes they spread extensively, while at others their spreading power is very slight. There is something here more than can be accounted for by the variations of what we commonly call "unsanitary conditions." The experiences of Rotterdam during ninety years, as analysed by Dr. Ballot, afford matter for thought, and may direct our inquiries into new channels. He shows that during that period in Rotterdam scarlatina has been fading away both in the frequency and severity of its epidemic visitations; while measles, formerly less frequent, has become a far more common and frequently recurring epidemic. The "contagiosity" of the one has been lessening, while that of the other has been increasing. Why? The answer has yet to be discovered. Dr. Ballot points out that the diminished mortality from small-pox coincident with that from scarlatina was of artificial origin, and the result of popular vaccination; and, this being so, that, on the neglect of the prophylactic, it was natural that one day or other a great epidemie would follow. And this has come to pass. It appears that in Rotterdam the carclessness of the lower classes in respect of vaccination has of late years been greatly on the inobject to vaccinations as introducing disease into the system. But another cause is also operative there - namely, a religious prejudice, to which, as prevailing largely among the lower classes, the children of the poor are the victims. The parents who hold the peculiar doctrines Dr. Ballot alludes to, having been vaccinated in their youth, mostly escape the influence of the epidemic, and among the better classes, who are for the greater part revaccinated, the malady is as good as unknown. The result has been that this year, up to April 29; 1368 persons have died in that town of small-pox. A similar explanation is to be given of the epidemic extension of smallpox among ourselves in London. From the time that vaccination began to be practised in this country to the ontbreak of the epidemic, the mortality from small-pox has been steadily decreasing from a mean annual death-rate of 88 per 1900 in 1790-1800, to 10} per 1000 in 1861-5, notwithstanding that this last period included the epidemic year 1863. People have forgotten, in fact, what small-pox was, and, as the Registrar-General says, the steady decline of deaths from the disease had induced a certain apathy in the matter of vaccination which has left a large portion of the population anprotected. May we not echo the words of Dr. Ballot !- " I say, this epidemic under which we now live is a shame. The more my table shows the constant diminution of the deaths from small-pox, and the more the effectiveness of vaccination is thereby proved in the manner the most clear, the more shameful is the progressive abstention from vaccination in the last few years. We now see what an enemy we are constantly nonrishing among us, and what his

PRACTICAL PHYSIOLOGY.

weapons are."

Ir is soldom—at all events, until their conclusion—that we specially direct the attention of our readers to courses of lectures that appear in our pages. Cases may, however, occur in which it may seem expedient to break through this rule, and we think that we shall be doing good service to science by devoting a few observations to the very remarkable series of lectures on Practical Physiology that have been recently delivered by Dr. Burdon-Sanderson in the newly-established laboratory in University College.

By "instruction in practical physiology" the Professor means "instruction in the methods by which the subject is to be worked at," rather than "its application to practical ends"; for "the more we regard physiology as a subject based from first to last on experiment, the better for us and for our science." The purpose of this course, which is the most complete of the kind that has ever been carried out in any of our metroplitan schools, is "the study and observation of the mechanical and chemical changes which take place in living beings, and purticularly in that one living being whose diseases it is our business, if possible, to prevent or cure."

The course begins with the consideration of cell-life in the higher animals, two special types of cell or corpusel being taken for study—the locomotive and contractile corpusele, or leucocyte; and the stationary corpusele, as best seen in cartifage or in connective tissue.

Each lecture contains a certain number of "Observations," or special experiments, which the student is tanght to perform for himself, and to which a commentary is appended. The carliest lectures are devoted to "Leucocytes," and, in the first "Observation," the Professor teaches us how to study these objects in the living state. An extremely small quantity of the blood of the newt (an animal that is always on sale is Covent-garden) must be placed in the centre of a thin cover-glass, which must then be inverted and placed over a "putty cell," which is thus converted into an air-tight chamber. For a description of "How carefully he builds his cell," we must refer to the lecture itself, and shall pass on to state some of the leading facts the examination of the imprisoned thood-drop. The first is that the blood has congulated in a tubnlar form, whence he infers that the change took place in the capillary tube that was used for transferring the fluid from the vein to the cover-glass. and hence was instantaneous, which, as we know, is not the case with mammalian blood. The second is, that if we carefully watch the edges of the red clot, we see it surrounded by a margin of transparent serum, in which at first only a few floating red cells can be noticed; but soon projections shoot out from what may be called the coast-line of the clot, which rapidly increase in size, and finally become liberated and float freely in the serum; these are the amorboid lencocytes, in which no granule or nucleus can be detected, and whose forms are most irregular, ever-changing, and grotesque. If seen in the act of separation, their outline towards the clot is smooth and rounded, while the opposite surface has a shaggy or serrated appearance, due to the presence of conical processes, which, to be properly observed, require a really good objective. As the process of emigration goes on, the number of free leucocytes increases, till the clot is at length bordered by a dense layer of them. Most have the characters already described; others have neither processes nor amœboid movements; a few, moreover, are filled with strongly refracting granules, and regarding these the Professor has nothing to say, "for nothing is positively known."

We have entered into these details regarding the first "Observation" not only in consequence of its intrinsic value, but because it is one that any student can, with ordinary care and a moderately good microscope, repeat for himself.

The second "Observation" is devoted to "Lortet's experiment," which consists in inserting under the skin of a rability or other manual the swimning-bladder of a fab filled with sindifferent fluid—as, for example, a solution of common silt. On removing the bladder after twenty-four hours, its centext, instead of being transparent, are thick and opaque, from the presence of hosts of leucocytes. This experiment, which may be altered in various ways, is of importance, as showing—first, that the migration of leucocytes is not dependent on difference of pressure between the liquid is niside and out, but merity on a property inherent in the leucocytes; and, secondly, that thy are capable of passing along channels so narrows as not only to be imperceptible by the microscope, but to be impermeable to water.

The third "Observation"—Professor von Recklinghaus n's experiment—is of interest, from its leading him to the discovery of the amorboid movements of pus corpuscles, which, by the way, had long before been described by Beale. He

removes the cornea from the eye of a frog, and introduces it, with a few drops of water containing sniline blue in a state of extreme comminution, into one of the subcutaneous lymphatic sacs. On examining the cornea after it has remained for some time in the sac, although it appears transparent to the unaided eye, it is found, when examined with the microscope, to be rendered opaque by the presence of leucocytes or pus cells, which are marked with the aniline stamp, and which have migrated into it from the liquid contained in the inflamed lymph-sac. The fact that leucocytes, each containing one or two aniline grains, are seen in the very control of the cornea, is, as the Professor observes, very convincing; and nothing can be more interesting than to observe the peculiar forms they assume as they squeeze their way along the interestices of the tissue.

"Observation IV." Illustrates the changes which occur in mammalian leaccytes when they are exposed to various term peratures. With the sid of an apparatus for keeping up a definite temperature, we learn that at 98" F. the eleucocytes are seen in active motion; at a lower temperature the movements are more alugable; while at 10" F. they draw in their arms, and shrink into globular, motionless, and lifeless masses—the conventional white corpusates of our text-book of

In "Observation V." the methods of exciting a selected leucocyte by electricity are discussed, and the results are described and depicted, while in the mark "Observation" the action of the electrical stimulus on other living cells—as, for example, the cells in the ensiorm eartisage of the frog—are considered; and the changes observed here are similar to those induced in the elucocyte, except that the cartilage cell, when it has once shrivelied up, is no longer capable of recovery. The Professor concludes his remarks on this subject with the following practical—i.e., pathological—remarks, which we offer no apology for reprinting:—

"It was for a time supposed that suppuration always depends on emigration of the blood leucovyte, and at the beginning of many acute inflammations the formation of pasis as rapid that may be a supported by the support of the blood selected to admit that the leucocytes have come out of the blood selected to admit that the leucocytes have come out of the blood that the companies are formed in the tissues. To prove this there is no experiment which is more satisfactory than that of Lortet (already described); for while, on the one hand, the crowding of the bladder with corpuseles in so short a period as twenty-four hours affords undoubted evidence of locomotion, the production of innumerable young leucocytes from masses of protoplasm, or, as Dr. Bode calls it, 'germinal matter,' which is derived from the surrounding connective tissue, is still more certain.'

We now come to the consideration of the "Coloured Blood Corpuseles," and the "observations" which the Professor makes upon them. He first explains and repeats Dr. Norris's experiment, which has for its object to show why the corpuscles of human blood, when seen under the microscope, have a tendency to stick together in rolls by their concave surfaces. Model corpuscles are made of circular discs of cork, thoroughly wetted and weighted so as to float vertically in a basin of petroleum. They attract each other and coalesce like oildrops on the surface of water, and if they are then separated by agitating the fluid, they soon again become drawn together into rouleaux. The experiment, as far as it goes, is very instructive, but soky do the corpuscles of blood which have just been removed from the body attract each other, while those of defibrinated blood have no such tendency? and why do they not do so within the vessels, even when the blood is quite

Professor Rollett's experiment, made with the view to prove that the blood corpuscle consists of a homogeneous material throughout, is then considered, and the conclusion arrived at is that it is neither a mere lump of transparent matter nor a vesicle, but that "it consists of two substances, one of which is concrete, the other in a state at all events approaching fluidity —the fluid not being inclosed in a cavity, but pervading or soaking through the substance." This iven is in secordance with
those expressed by Professors Brücke and Stricker. The former,
by a very simple experiment—by treating the blood of the
newt with a solution of boracic acid, when the contour of the
corpuseles changes more or less from oval to circular, and the
colouring matter is apparently retracted from the circumference and collected round the nucleus, from which it stretches
outwards in rays in a stellate form(b)—is led to regard the
corpusele as a porous structure of colourless hyaline substance
(accid), the pores of which are occupied by a coloured living
pulp (zosid). The latter, by a far more complicated experiment, arrives at a similar view with regard to the colourless
part, but differs from Brücke as to the constitution of the zooid,
which he designates as the "body" (Letis) of the corpusele.

The coloured constituent (the zooid) can be demonstrated in a most striking and remarkable way by the action of tannin on the blood. On mixing a droplet of blood with a drop of tannin-solution (four grains to one ounce of water), each corpuscle becomes divided into two parts, one of which has an irregular, strongly-defined, hard outline, and is deeply coloured. while the other is merely a pale, faint circle, the diameter of which corresponds to that of the corpuscle. These remarkable appearances are rondown oven more striking by the addition of solution of aniline, which gives a very deep colour to the projections. For this marvellous experiment we are indebted to Dr. Roberts, of Manchester. "Here," says the Professor, " we have again to do with Brucke's zooid, which seems under the action of tannin to shrink together in such a way that it can no longer be retained in its spongy dwelling, and makes its exit en masse."

The different methods by which the more delicate, coloured part of the corpusele (the zeoid) may be caused to leave the more solid resistent stroms (the occid) are then noticed, the simplest being that which consists in freezing and thawing the blood. Similar effects are produced by electrical discharges and induction carrents; and in the third lecture the Trofessor notices some very singular effects that ere produced by electricity on the shape of the corpusele, and on "the conduct of the nucleus" before the ultimate result is obtained.

We now arrive at the consideration of "The Blood Plasma," which is discussed under "Observation XIII."; but this and the subsequent section, on "The Conditions of Congulation," call for no special remark, and we pass on to "The Colouring Matter of the Blood." This colouring matter, known as hæmoglobin, hæmatoglobulin, and hæmatocrystalline, is a "crystallisable immediate principle, readily soluble in warm water and in weak spirit," and remarkable for the readiness with which it is decomposed either by acids or alkalies into hematin and an albuminous compound; and the lecturer devotes four "observations" to prove the propositions— (1) that it exists as such in the blood; (2) that, although a crystalline body, it is indiffusible; (3) that, when subjected to the action of reducing agents, it undergoes a change of colour identical with that which arterial blood undergoes when it becomes venous, and that the original colour can be restored by agitation with air; and (4) that when subjected to the prolonged action of acids and alkalics it undergoes a change of colour of a different nature, due to the formation of hematin. which is permanent.

No Medical Practitioner, old or young, would like to admit that he was not thoroughly conversant with so important a subject as the composition of the blood; yet, if wo are not much mistaken, many of our readers have passed over these most remarkable lectures with a rapid glance, under the idea that their study required a degree of application and an amount of time that they could not afford to bestow upon them. If, by setting before this class of readers in simple language some

⁽a) For further details on this subject we may refer to Professor Rollett's article, "The Blood," in Stricker's "Histology," vol. i., p. 408,

⁽h) A diagram of the corpusele thus changed may be seen in Stricker, op. ci., p. 306.

of the guan that we have extracted from these mines of deep physiological knowledge, we have neceeded in showing them the value of such investigations, our labour will not have been in vain. It may be remarked that the properties of tencocytes were brought forward by Mr. Simon at the last meeting of the Medical and Chirungical Society as reasons for certain precuntions in vaccination. Yet the word "lessecyte" is not familiar to some receination.

In a future article we shall give a similar popular resume of the remaining part of this course of lectures.

THE WEEK.

TOPICS OF THE DAY.

THE minutes of the meeting of the Branch Council for England of the General Medical Council do not contain information of importance, with the exception of the fact "that the Prosident communicated to the Branch Council that, by a letter addressed to him as President, Dr. Rumsey had resigned his appointment as a Member of the General Medical Council." We are sure that Dr. Rumsey's retirement, should it prove a final one, will be regretted by a large majority of the Profession. He has been a very active and valuable Member of the General Medical Committee to Mr. Ouvry, the solicitor to the Council. One-a charge of infamous conduct in a Professional respect-will be brought before the General Medical Council; on the other, by the advice of Mr. Ouvry, the Council will not take action. The application of a student to be registered who had passed the Oxford Local Examination (Senior), not including Latin, was not acceded to. Another application for registration was reserved for further consideration. This was the whole of the business done.

There is just now a pause in the various movements which Lave taken place in the matter of Medical reform. 'The day for the reassembling of the Committees of the three Corporations is not yet announced, and it is clear that until they meet no further progress can be made in the settlement of the various questions connected with the conjoint scheme of examination. We hope that unnecessary delay will not be allowed to interfere with the framing of a scheme which may be submitted to the General Medical Council at their meeting in the latter part of the summer. There seem to us to be only two real difficulties raised by the recent resolutions of the Council of the Royal College of Surgeons. One is a very small one, which should never have been raised-it is that of the Medical and Surgical qualifications to be held by examiners. What seems desirable to the Council of the Royal College of Surgeons is, in the first place, impossible in the present state of the law; in the second place it is unjust, because it would exclude all men possessing the ordinary diplomas of English general Practitioners from the examination of persons who apply for admission into their own ranks; in the third place it is absurd, for it would exclude from the office of examiner persons of European reputation who are foremost in the ranks of science (to take an illustration from men who have died within the last few years, under such a rule Professor Brande could not have been elected to examine in chemistry or Professor Lindley in botany); in the fourth place, to attempt to enforce such restrictions upon the other Medical authorities would be simply fatal to any prospect of united action. We may hope, therefore, that the very trumpery difficulty which has been thus unadvisedly created will at once be disposed of on the reassembling of the Committees. The more serious one is the pecuniary question. On it we would repeat what we have already said-that the maintenance of the Hunterian Museum and Library must, in the first place, be amply secured. This being done, we cannot conceive that any real impediment will remain. It would be simply disgraceful to the Medical

Authorities of this country, if a great public and Professional reform were to be indefinitely postpoud, or the alternative of new legislation forced upon an unwilling Profession, because certain of the great Medical institutions could not agree upon the division of the fees for examination.

The second reading of the two aureiving Medical Bilk—Dr. Brady's (that of the Irish College of Surgeons), and Dr. Luak's (that of the Lenert)—is put off to June 14; practically, to the Greek kalends. Some people have talked about a select committee on Medical reform, which might prove a convenient way of shelving the whole thing, but could throw no light upon the real and very simple reforms that are needed.

At the meeting of the Poor-law Medical Officers' Association, a report of which appears in another column, the very serious question of the propriety of the change in the arrangements for public vaccination, which the Privy Council has pressed upon boards of guardians, was discussed. Whatever may be said in favour of large areas of vaccination, and the raising of vaccination into a specialty, to be performed by special Medical officers at the public cost, at least it will be conceded that the time to make the change was not during the height of an epidemic of small-pox. That, for instance, in a large parish such as St. Pancras, to place one public vaccinator in a vast and deanly populated district in the place of six efficient and largely employed vaccinators, seems an extraordinary mode of meeting the epidemic. We think it highly advisable, as recommended at the meeting, that evidence as to the practical results of the change should be taken by the Parliamentary Committee now sitting on vaccination.

The House of Commons may be said to have agreed, under protest, to the sippenny income-tax, in which a Mr. Love tookrfuge after the practical defeat of his ill-advised Budget. Prefessional men throughout the country can only do the same, hut as representing a large professional section we must estime strongly to remonstrate against taxing the uncertain and precarious income of the Physician, Surgeon, or general Pratitioner at the same rate that the incomes of landholders and fundholders are taxed.

Great interest is felt in the coming election into the Royal Society, which will take place in June next. We have already published a list of the Medical candidates for admission, which, it will be remembered, contains several distinguished answer. It is an honour to be proposed for election into the Boyal Society, and on the present occasion many of the nominations are allike eveditable to the nominators and to the nomines.

Mr. Bruce's Bill, which is now trembling in the balance of public opinion, contains many clauses which unbouldedly should have the support of the Medical Profession. The adulteration of liquours, and the uncontrolled tempatations to tipple which the present licensing system encourages, are things which demand the opposition of sanitary and social reformers. We notice that the Parliaments ray Committee of the British Medical Association have determined to petition Parliament in favour of the Bill.

From his speech on the Woman's Suffrage Bill, it is evident that Mr. Gladstone has begun a dangerous direction with the strong-minded ladies. We mean dangerous to himself, for we do not believe that the common sense of the country will allow him to make the firstation dangerous to the community at large. Mr. Jacob Bright's Bill for unsexing the fair sex was thrown out by a large majority. But still the massedinic ladies have admirers on both sides of the House, and a half-implied promise from the Prime Minister to support some kind of Womas's Suffrage Bill under favourable circumstances, will be eagetly caught at as a consoliation for defeat by the unwormany sed and their admirers, and remembered. Mankind is, we suppose developing into a new kind of unisexual manmal. With woman in Parliament, in the pulpit, and in the lecture-room, the wold

would be very amusing if less wise. When breeches are universal, motley will be the only wear.

Mr. Paget's retirement from the Surgeoney of St. Bartholomew's Hospital, which is announced, cannot but be a source of regret to the students and staff. Mr. Paget, however, has done more than enough for his Hospital to deserve the ofium of an honorary consulting appointment.

Dr. Dudfield has been appointed to succeed Mr. Godrich as Medical Officer of Health in Kensington. Dr. Dudfield has been a leading member of the Parochial Works Committee, and has taken much interest in local sanitary questions.

News of Livingstone has been received from Zanzibar; he is said to be alive and well, but destitute.

The discussion on the subject of syphilis and vaccination will be resumed at the Medico-Chirurgical Society on Tuesday next.

The University of Cambridge has conferred an honorary degree in Arts on Dr. Michael Foster, Prelector of Physiology at Trinity College.

Two cases of scalding to death in baths have been before the public lately. In one, an attendant at the Wandsworth Lunatio Asylum, one William Cooper, through carelessness, scalded an inmate so severely that he died from secondary bronchitis. He has been tried at the Central Criminal Court, and found guilty of manslaughter, and sentenced to a month's imprisonment. The evidence went to show that the accident occurred through turning on a stream of hot water, which came in contact with the patient's back. Cooper bore a good character for humanity, and was recommended to mercy by the jury. In the other case, a schoolboy of 16 scalded to death his schoolfellow, a little boy of 7. The story, as given in the newspapers, is utterly horrible. The boy's scarf skin is said to have peeled off in the bath. He was flogged by the elder boy, and forced back into the scalding water when he made his escape. The old stories of roasting fags at Winchester and Westminster are matched by this. Some boys-aye, and girls, too-are so naturally and causelessly cruel that we defy Mr. Darwin to find in his long line of ancestry their prototypes.

A fatal accident at gymnastics is reported to have taken place at the High School, Nottingham. A boy was practises on the horizontal bar. He was seated on the bar and swinging himself backwards when he fell and broke his neck. Why are not the floor of gymnastic overed with some soft material?

At the dinner of the Royal Academy, Professor Huxley, who returned thank for the Royal Society, proposed a new and artistic division of the animal kingdom, and a new distinction between man and animals. His speech was so happy a specimen of the after-dinner kind that we make no apology for reproducing it. He said:

"Your Boyal Highness, my Lords, and Gentlemen,—I beg leave to offer you my hearty thanks for the greet honour you have done me in connecting my name with the toast of the Royal Society, as the licutenant of the venerable President of that body. Like the Academy, the Royal Society has its annual gathering of members and other guests; but I cannot say that our meeting is quite so numerously attended to the solid shifted as a size of the solid shifted as a size. The fact is that they gay, I suppose, we could shift as a size. The fact is that they are size of the Philosophical well in any light; and though we might be able to cover a large amount of wall-space with the pages of the Philosophical Transactions, I am afraid the public weight not cave to look at them when we had done. This is undoubtedly rather hard upon us, for our purpose is the same as yournmandly, to seize the idea which lies hidden under the shifting it may increase the pleasure and the profit of culless generations of men. We both seek truth, and we both seek beauty. Even your terminology has a certain appropriateness to us. And he who has eyes to see will note in the dry pages of our Transactions the vast aerial perpectives of discoverious the vast aerial perpectives of discoverions the vast aerial perpectives of discoverions the vast aerial perpectives of discoverions

and the wonderful chiarosenro of the intellectual world, a thought throws here and there a ray amid the shadows of the unknown. But, Sir, I will not complain of the unavoidable. Art is the elder sister of Science, and reached her maturity while Science was in leading-strings. Nay, I will be generou and acquaint you with a fact not generally known; to wit, that the recent progress of biological speculation leads to the conclusion that the scale of being must be thus stated-minerals. plants, animals, men who can't draw, artists. Thence I conplants, animals, nen who can't draw, artists. Inence I con-clude, Sir, that you, as Fresdent of the Academy, are the crown and summit of creation. By statement, however com-plimentary, may be a little starling, and you will, there-fore, I hope, permit me to state the grounds on which it takes rank as scientific truth. We have been long seeking, as you may be aware, for a distinction between men and animals. The old barriers have long broken away. Other things walk on two legs and have no feathers, cater-pillars make themselves clothes, kangaroos have pockets. If I am not to believe that my dog reasons, loves, and bates, how am I to be sure that my neighbour does? Parrots, again, what deserves the name of sense as much as a great deal which it would be rude to call nonsense. Again, beavers and ants engineer as well as the members of the poblest of professions. But, as a friend of mine discovered a few years ago, man alone can draw or make unto himself a likeness. then, is the great distinction of humanity, and it follows that the most pre-eminently human of creatures are those who possess this distinction in the highest degree. Such, Sir, is the best return which at the present date belong an give you for your kind words about her. I trust you will not use your prond position too hunghilly; but as before and now, so is future, permit such an one of the hundle primates as myself to share in your triumple."

THE MEDICAL SOCIETY OF LONDON.

THE Society held a convergations on Monday last, at the Hanover-square Rooms. There was a numerous attendance of Fellows and visitors. Dr. Andrew Clark, the President, was in the chair. The oration was delivered by Dr. Cholmeley : it was a most able production, and was listened to with great attention. A report of it will be found at page 521. Amongst the objects of interest exhibited were the following :- A number of drawings, casts, and wax models relating to anatomy. physiology, and pathology, as well as some of the bones of a fossil whale, the skeleton of which was exhumed by himself in Suffolk, two models from nature of the viscera of the gorilla, etc., all very interesting, by Dr. Edwards Crisp; various forms of galvanic apparatus, and a new form of electric cautery, etc., by Messrs. Krohne and Sesemann; a beautiful coloured cast of a vesicle from revaccination, by Dr. Brunton; an etching, by Seymour Haden, F.R.C.S.; new ophthalmological instruments, and a collection of Japanese enamels, by Brudenell Carter, F.R.C.S.; Surgical instruments, by Mussrs. Matthews Brothers, Messrs. Amold, and Mr. Hawksley; microscopes, by M. T. Ross; photographs, by Mr. Samuel Walker and Mesers. Barrand and Jerrard; a couch and other spinal appliances, of great variety and ingenuity, by Mr. Ernst; Surgical instruments, etc., by Mr. J. T. Pratt; some excellent crystals, etc., by Messrs. Squire; and some new chemical preparations by Messrs. Young and Postans.

INSPECTOR-GENERAL DANIEL SCOTT.

Dz. Daxiez. Scorr, Iuspector-General of Army Hospitals (half-pay), has been nominated for the good-service pension of £100 per annum, which fell vacant on the death of Inspector-General Dr. James Henderson. Dr. Scott served for forty-size years on full pay, and more than thirty years of that period on foreign service. He entered the army in Yebruary, 1813, at Hospital mate and assistant, and served in the Peninsula from March, 1813, till May, 1814, afterwards for varying periods in Sirlly, Genoa, and the Ionian Islands, at the latter station for ten years. In October, 1830, he went to the West Indies, where he reminded till August, 1846, and on his return to this country was appointed Inspectorial Medical Officer of the Burracks and Hospitals in the United Kingdom. In May, 1854.

he went to the Mediterranean, and superintended the Medical arrangements of the troops at Malta during their transit to and from the Crimea. This duty he performed with great efficiency and zeal. His several commissions were dated as follows:- Hospital mate and assistant, February 8, 1813; Assistant-Surgeon, March 13, 1824; Surgeon, October 17, 1834; Deputy Inspector-General, August 2, 1850; Local Inspector-General, June 7, 1854; Inspector-General, September 25, 1857. He retired on half-pay on February 21, 1859.

CORONERS' INQUESTS.

On Friday, the 14th ult., the Judge-Advocate-General, the Right Hon. J. R. Davison, Q.C., M.P., arrived on a visit at the Aubreyes, the seat of a personal and Professional friend in Essex. Mr. Davison went to bed apparently in his usual health. The next morning he was found dead in bed, with a Parliamentary Blue-book lying by his side. No suspicion whatever attached, but, because the death was sudden, the coroner thought fit to hold an inquest under the roof of Mr. J. St. George Burke, Q.C., the host of Mr. Davison. Of course, the verdict was "Death from natural causes," no one having ever entertained a doubt that the diseased had "died by the visitation of God." This proceeding has been objected to inlegal circles as not only needless and offensive, but also Illegal. In 11 East's Reports, p. 229, which was an application for a mandamus by the Coroner for Kent to compel the justices of that county to allow his fee for holding an inquest, Lord Ellenborough, in refusing the rule, said "that there were many instances of coroners having exercised their office in the most vexatious and oppressive manner, by obtruding themselves into private families, to their great annoyance and discomfort, without any pretence of the deceased having died otherwise than a natural death, which was highly illegal." Also, in The Queen r. the Great Western Railway Company, 3 Q. B. Reports, p. 333, Lord Denman said-" The mere fact of a body lying dead does not give the coroner jurisdiction, nor even the circumstance that the death was sudden. Theze ought to be a reasonable suspicion that the party came to his death by violent or unnatural causes. . . . If," continues Lord Denman, "the verdict be 'Death by the visitation of God,' nothing more is done; for, in truth, it appears that there was no occasion for an inquest. . . . The coroner must, therefore," he adds, "before he summons a jury, make some inquiry." There may be doubts as to the necessity for an inquest on the body of Mr. Davison; and if the Coroner for Essex should be so ill-advised as the former Coroner for Kent, in the event of the justices disallowing his fee, as to apply to the Court of Queen's Bench for a mandamus, probably Sir Alexander Cockburn will but re-echo the opinion of his predecessors. The justices of every county would do well strictly to scrutinise all inquests resulting in a verdict of "Died by the visitation of God." Apart from the expense to the county, such inquests are vexatious, and might well be superseded by a private inquiry conducted by a Medical Officer of Health.

CHELSEA BOTANIC GARDEN.

THE Society of Apothecaries has for some years past been paying a good deal of attention to the maintenance and improvement of the valuable collection of medicinal plants in its garden at Chelsea. When Dr. Lindley was Professor of Botany to the Society, a lecture-room within the garden was used during several summer sessions for demonstrations from fresh specimens of those plants used in Medicine which could be seen growing at Chelsea on the spot, and tickets of admission to the garden and the lectures were given to all students of Medical schools who applied for them. This custom is now to be revived, and a series of six lectures, open without charge to all registered Medical students and to members of the Medical Profession who apply for tickets for the course, is to be given.

The lectures will be delivered at the garden by the present Curator, Mr. Thomas Moore, F.L.S. They will begin on Wednesday, May 31, and end on Saturday, June 31. These lectures are to be delivered on Wednesdays and Saturdays throughout the course, from four to five o'clock, and they will be illustrated with specimens from the garden, selected as far as possible from the plants possessing medicinal properties. This utilisation of the Chelsea Garden will be at least an attempt to carry out the wishes of Sir Hans Sloane, who bequeathed the garden to the Society, and we may hope that it will be useful in reviving amongst Medical students a love for the most delightful and clegant of the sciences subservient to Medicine. Tickets for the lectures can be obtained at the Hall up to May 20.

WOMEN'S RIGHTS IN MEDICINE.

It will be within the recollection of some of our readers that a little time ago, when the Women's Righters succeeded in forcing their way into the Pennsylvania Hospital, there was an emente among the students, and the ladies who made their appearance there were not received with the politeness to which they had been elsewhere accustomed, to put the mildest point upon it. But the ladies were not daunted; they forced their way into the operating theatre, where their demeanour was described by their admirers as angelic-by their opponents as something very different; and the youths who resisted their entrance, out of respect to their own modesty, were sternly denounced all over the land. They had made their protest, however, roughly, and it was unheeded. But the following extract from the latest Philadelphia Medical Times all unwillingly teaches the result. The Pennsylvania Hospital is an irrstitution of which men on this side the water say no evil. It is the oldest, and was for long the best, school in America. And now what has A refuge for Women's Righters and quacks !- for the so-called Eclectics are eclectics only in the sense that they reject all those mineral remedies which the experience of ages has proved useful. Really they belong to the Coffinite persussion.

"There is no other institution in Philadelphia in which the interests of the Medical Profession have centred for so log a time as the Pennsylvania Hospital. We cannot, therefor, look with equanimity or indifference upon its present decline

1008 with equality with students.

"In the early part of November, 1869, nearly 500 tickets were sold, and we are told that on one or two occasions that number of students actually assembled in its amphitheatre, constituting, it is believed, the largest class in attendance npon clinical lectures in the world. During the past winter less than 200 students attended the clinics. Why has this ance non-cinical recurred in the World. During rie past water less than 200 students attended the clinics. Why has this change occurred? More favourably situated than any other Hospital in the city, within ten minutes wall of two great schools of Medicine and of the homes or boarding-house

great schools of Medicine and of the homes or boarding-house of the students, with precisely the same Medical staff, many of the members of which are popular teachers, and afterlay opportunities for clinical study unsurpassed classwher, the change since last year seems incomprehensible. "We know that it is a prevailing impression in the com-munity that students are deterred from coming simply because women are now instructed in its wards. This petry feeling has, we know, no existence. Nor was there at any time any desire on the part of the students to prevent women from desire on the part of the students to prevent women from studying Medicine, although this has, time and again, been asserted. The position which they took last year—and we have never seen it successfully assailed—year that chinelin instruction should not be abridged in consequence of the presence of women. The tickets had been bought with the implied, if tacit, understanding that the cases exhibited and lectured upon should be as varied as they had always been, and the disturbances which took place upon the appear-ance of the students of the Women's Medical College were in great measure due to the ill-advised announcement which was made to the class that cases of veneral disease, or those was made to the class that cases of venereal disease, or those involving exposure of the person, could no longer be shown.

"There is a point which seems to have been systematically ignored by the advocates of women's rights, and that is, that the state of the st

there is no necessity now, nor has there ever been any, for

women who desire to be instructed in clinical Medicine to attend Hospitals in which male students are taught. The Women's Medical College is situated in a part of the city unprovided with a dispensary with the exception of the one attached to it. During the time it has been in existence, dispensaries have started up in other parts of the city, and have pensaries have started up in other parts of the city, and have to the Women's number of patients. The Hospital attached to the Women's number of patients. The Hospital attached to the Women's number of patients. The Hospital attached to the Women's number of patients. The Hospital attached to the Women's number of patients in practical in is manifested in it, there ought to be no difficulty in precuring is manifested in it, there ought to be no difficulty in precuring such a subscription-list as would insure its permanent success. Why, then, should women continue to force themselves upon teachers who are not interested in their progress, and who can teachers who are not interested in their progress, and who can teachers who are not interested in their progress, and who can teachers when are not interested in their progress, and who can teachers when are not interested in their progress, and who can take the contract of th

"The mere paneity of attendance upon the regular lectures of the Pennsylvania Hospital is not the nolly evil in the present can lition of things there. If the class, poor as it is in numbers, was made up of the students of either of the scientific Medical schools of the city, the lecturer would at least have the satisfaction of feeling that he was exading seed where it was required to the students of the studen

Will Edinburgh be warned, and hold fast to its present wise determination, or shall that honoured name also be relegated to quacks and humbugs?

DR. ODLING ON PHLOGISTON.

Da. Obliko charmed a large audicuce at the Royal Institution on Friday evening last, by a brilliant discourse, intended to rehabilitate the doctrine of "phlogiston," or rather, perhaps, to show how the opinions held by the illustrious Stahl and his followers harmonise with facts and doctrines admitted at the present day. Want of space this week prevents us from giving the details.

THE LIVERPOOL BOTANIC GARDENS.

Soxiz portion of the conservatories of the Liverpool Botanic Gardena having been for some time past in a very dilapidated and unsafe condition, much to the detriment of numerous valuable foreign plants which they contain, a vigorous memorial was adopted by the Medical Institution, at its last meeting, to the Corporation on the subject. This memorial, accompanied by similar once from other scientific societies, has had the desired effect, the Finance Committee having recommended the outlay of 23500 for the erection of a new plant-house.

SMALL-POX IN LIVERPOOL.

NOTWITHELANDING occasional oscillations, the mortality from small-pox in Liverpool is, on the whole, pretty steadily de-elining: The fatal cases hast week were 74, as against 68 and 77 in the previous weeks. Of the 74, 46 were returned as unvaccinated, and of 7 no report was given. Thus, 21 weeks after the outbreak of the epidemic, nearly 60 per cent. of those who die from it are unvaccinated.

DE. BALLARD ON THE HEALTH OF ISLINGTON.

Dr. Balland, in his Report on the Sanitary Condition of St. Mary, Islington, for March, 1871, says that—

"Since the end of March a sudden and extensive outbreak of the disease (small-pox) has occurred at the north-eastern part of the parab, coincidently with a similar outburnt in the adjoining parish of St. Pancras. Of the 198 cases mentioned above, not more than half—vir., 98—were sent to the small-pox Hospitals, the remaining 100 being treated at home. This arose in some instances from the unwillingness of the patients to be removed, in other instances from the lack of sufficient?

Hospital accommodation. There is just above the pasper class, for whom the Board was bound to provide, a class of persons—artisans, shopmen, clerks, laundresses, petty tradesmen, and such-like—who, although never in the receipt of parochial relief, have been driven to seek refuge in the Hospitals of the Arylums Board when attacked with small-pox. To have refused such persons admission would have been to compromise one of viz, the isolation, not otherwise promulation of ere founded—viz, the isolation, not otherwise promulation of the conductangions disease. Such persons, when, as is commonly the case, occupying with their familities a single room of a house let in tenements, or only a portion of their own house, while the remainder is let to other families, are as likely to disseminate the contagion to those about them as a pauper would be under the contagion to those about them as a pauper would be under the contagion to the contagion of the co

May 6, 1871. 519

THE MORTALITY OF ENGLAND FROM SMALL-POX IN THE FIRST OURSTER OF 1871.

"The registrare of the 2107 sub-districts of England and Wales last quarter reported 21,677 fast cases of the seven principal diseases of the zymotic class, against 20,091 in the first quarter of 1870; 1080 were referred to searler fever, 4892 to small-pox, 1072 to different forms of fever, 2692 to hooping-cough, and 1072 to different forms of fever, 2692 to hooping-cough, and seasterable decline upon the last quarter of 1870, but were only 600 lower than in the first quarter of that year. The fatal cases of fever, hooping-cough, and measies each showed a considerable decline last quarter upon the corresponding three conditions of the control of the control

nearly 4500, of which further details will be found below.
"The epidemic of small-pox, which has more or less generally prevailed throughout the country, is doubtless the most important feature in the death returns for the first quarter of this year. The deaths from small-pox in England and Wales in 1864 were 7684, and steadily declined to 6411, 3029, 2513, 2052, and 1565 in the five following years—1865-9. In 1869, therefore, the fatal cases of this disease averaged rather less than 400 per quarter. In the four quarters of 1870 the 2197 registrars of England and Wales reported successively 405, 446, 500, and 1229 fatal cases of small-pox. The present epidemic may therefore be said to have broken out in the last quarter of 1870, the 1229 deaths in that quarter having further increased to 4903 in the first quarter of this year. Of these, 2400 occurred in the metropolitan division; their distribution in the various parts of London have been dwelt upon in the weekly returns. In the South-Eastern counties 203 eaths occurred, of which 42 were returned in Brighton, 32 in Croydon, 24 in Southampton, 14 in Medway, and 13 in Kingston. Croydon, 24 in Soutnampton, 14 in Andway, and 16 in Ampston. In the South Midland counties 192 deaths were returned, of which 11 occurred in Staines, 10 in Uxbridge, 12 in Brentford, and 18 in Edmonton. It will be seen that most of these places are in close proximity to the metropolitan district. In the Eastern counties 88 deaths were referred to this disease, including 60 in West Ham and Epping, also close to London. In the Southth West riam and Epping, also close to London. In the South-Western counties there were 54 deaths, of which II each oc-curred in Tavistock and Falmouth. Only 40 deaths were returned in the West Midland counties, with their more than two and a half millions of population; the highest district number was 9 in Nuneaton and 8 in Oswestry. In the North Milland counties, of the 25 deaths 18 occurred in Great Grimsby. In Lancashire and Cheshire, the North-Western counties, 1224 deaths were reported, of which 1062 occurred in Liverpool borough, 43 in Ormskirk district (including South-port), 16 in Birkenhead, 18 in Manchester city, and 10 in port), 16 in Birkenhead, 18 m manenester coy, Northwich. In the three Ridings of Yorkshire, containing over two millions of inhabitants, only 69 deaths occurred from over two millions of innantants, only to ucents occurred a tenthia disease, including 13 in Keighley and 15 in Krikleatham sub-district. In the Northern counties there were 463 deaths, of which 411 were returned in the county of Durham, including no less than 238 in South Shields, also 78 in Stockton, 37 ing no less than 238 in South Shieds, also 73 in Stockton, 37 in Interchangle in Hartlepool, 17 in Durbam, 15 in Auckland, and 13 in Gatehand; in Northumberland, 25 and 23 respectively occurred in Northumberland, 25 and 23 respectively occurred in Noweauthon-pur-Tyne and Tynemouth. In the Welak counties (with Momnouthshire) 235 deaths occurred; of these 141 were returned in Liand-ly, 34 in Swanses, and 11 in Llandyllin. From this resume of the distribution of the fatal cases of small-pox last quarter, it will be seen that the epidemic was almost confined to four great centres of infection, London, Liverpool, and the mining districts of Durham and South Wales. Nearly all the smaller outbreaks may be more or less directly traced to one of these centres; Brighton, for instance, has doubtless suffered from its intimate communication with London. There is distinct evidence in many cases of the introduction of the disease into several seaside towns by sailors; and considering its fatal prevalence in Holland, Belgium, and many parts of France, it is not a matter for great surprise that Southampton. Great Grimsbv. matter for great surprise that Southampton, oreas ormany, and one or two other ports have suffered from the epidemic. It is indeed very probable that the epidemic in Loudon was do to the large survivals of French emigrants during the latter part of last autumn. That the epidemic may to a great extent be traced to our foreign communications is beyond doubt, and it is to be regretted that the steady decline of deaths from small-pox in England, in the six years 1861-99, had induced a certain apathy in the matter of vaccination, and thus left a large portion of the population unprotected from the disease. In times of severe epidemic, like the present, large numbers of the vaccinated, in some way or other, also saffer for the neglect which has left so many unvaccinated.

"Scarlet fever, although showing a decline of 5660 fatal cases upon the last quarter of 1870, continued fatally prevalent during the first quarter of this year, in nearly all the counties of England and Wales."

TROM ABBOAD .- M. GALEFOWSKI ON THE INFLUENCE OF ALCOHOLISM ON THE SIGHT.

Ar one of the meetings of the Academie de Médesina, held just after the siege of Paris, M. Galezowski read an interesting paper, which we have hitherto omitted to notice. He entitles it "The Influence of Alcoholism on the Sight," and describes a form of amblyopia which is induced by the excessive use of alcohol. Delirium tremens is often accompanied by disturbances of the senses, and especially of vision; but the amblyopia which supervenes in persons suffering from chronic alcoholism is of a much more marked character, and its symptoms are so little known, that a short account of them will probably be accentable

Alcoholic amblyopia has been unfortunately of very frequent occurrence in Paris, especially since the siege was commenced, as may be judged from the following figures taken from the records of the author's clinic :- During the five months ending in February, fifty patients presented themselves suffering from this malady; while during the twelve months which preceded the siege, only nineteen cases were met with. This increase would seem to arise from the habit which prevailed during the siege of drinking alcoholic liquids in the morning fasting, the stomach being in general entirely void of any nutritive aliment. The affection was only met with in men, with the exception of one case. The following are the characteristic symptoms:-1. The patients perceive that their sight has become somewhat suddenly enfeebled, but it then remains in a stationary condition for several weeks. 2. The acuteness of vision is sensibly diminished, the patients being scarcely able to read the characters 8 or 10 of the author's typographic scale; while in some cases they cannot distinguish evou the largest, as No. 50. 3. Distant vision is much diminished, the face of a person not being recognisable at some paces' distance. A sort of white haze seems to envelope every object. 4. A kind of nyctalopia accompanies this form of amblyonia, the patients seeing more distinctly as the evening approaches, the haze then being less apparent. 5. The perversion of the chromatic faculty is not less characteristic. Carmine, red, and green are often confounded with each other : violet is taken for red, and yellow for red. In these patients a peculiar form of morbid dyschromatopsy is sometimes observed, which is characterised by the too prolonged persistence of each coloured impression upon the retina giving rise to a confusion of colours. Thus, these patients recognise accurately at first each distinct colour, but as soon as they direct the eye to another colour, the perception becomes confused, and they perceive either the primary colour, or a mixture resulting from a combination of the two colours. 6. These patients frequently see double or triple, probably on account of spasmodic contractions of the muscles of the eye. A waiter at a cafe lost his situation

because, as he saw every cup double, he poured the coffee on the outside of it. 7. In some of the patients the peculiarity is observed of the objects which they look at seeming to savance or recede, owing to a kind of spasmodic action of the accommodating muscle. 8. The amblyopia is very frequently accompanied by visual hallucinations, which are, however, rather due to a cerebral than an ocular affection. 9. The pupils are not alike in the two eyes, one being generally larger than the other, and often irregular. No other alteration is observed in the exterior of the eyes. 10. Ophthalmoscopic examination, as a general rule, only furnishes negative results, the papilla of the optic nerve remaining of its normal colour. In some cases, however, there may be observed a kind of serous suffusion, especially in the vicinity of the vessels. The arteries in some places exhibit spasmodic contractions, while the veins are tortuous and gorged. This disposition is observed to be more marked as the disease becomes prolonged, and then the papilla of the optic nerve is pale and whitened, without, however, exhibiting that pearly whiteness which is met with in progressive atrophy of the papilla.

May 8, 1871.

The differential diagnosis of the disease need not be insisted upon after the above statement of symptoms, which proves that alcoholic amblyopia is an affection of the eye spart, which can only be simulated by commencing strophy of the papilla. But any doubts that may be entertained become dissipated in the subsequent course of the affection; for, while the atrophy advances progressively, the amblyopia remains stationary for weeks or months. It may even be completely cured, to return again after renewed excesses in drinking. With respect to the pathology of this form of amblyopia, M. Galezowski says that "it is due to a kind of paresis of the longitudinal muscular fibres of the arteries, which act in dilating them, and to a spasmodic contraction of the circular fibres of these same vessels. The blood does not arrive in a sufficient quantity for the arteries, while the veins undergo a kind of passive stasis." In conformity with this view, a collyrium of éserine or calabarine has been employed as a mesas of inducing relaxation of the spasmodic contraction of the arteries. The efficacy of this agent is incontestable, for the patients are immediately relieved, seeing better during the whole period that its action continues, while its daily use leads to a sensible amelioration. In many of the cases large doses of bromide of potassium have produced sensible ameliaration, confirming M. Gübler's good opinions of that medicine in the treatment of alcoholism in general.

Alcoholism exerts, also, a very mischievous effect on operations on the eye; and the want of success of the operation for cataract in the poorer classes should often be attributed to alcoholism and a shattered general health. The paper terminates with the following summary: -1. This disease appears as a consequence of prolonged indulgence in alcoholic drinks, and especially when these are taken fasting or before dinner. 2. Bad food and a wretched condition of existence predispose to its development. 3. Complete abstincace from alcoholic drinks during several weeks or months is an indispensable condition for recovery. 4. The bromide of potassium is a very efficacious remedy; and the éscrine collyrium is one of the best means of combating the visual disturbance. 5. This amblyopia is tractable when combated at an early period; but later it becomes a serious affection, which is very difficult of cure.

was presented by Mr. McLaren.

Lord George Hamilton asked the Secretary of State for War
whether, considering that a death from confluent small-pox

PARLIAMENTARY .- HABITUAL DRUNGARDS-SMALL-POX AT HOUX-SLOW-LUNACY REGULATION (IRELAND) BILL-EPPING FOREST-VACCINATION BETURNS-PENALTIES FOR NON-VACCINATION-THE BUDGET.

In the House of Commons, on Thursday, April 27,

A petition from the Royal College of Surgeons of Edinburgh in favour of the Bill for the regulation of habitual drunkards

had occurred recently at Hounslow at the barracks of the 4th Middlesex Militia, and that the militiamen themselves were drawn from parts of London where the disease was prevalent, he would consider the expediency of deferring the training of the regiment until it could with safety be billeted upon the neighbouring villages.

Mr. Cardwell: A death occurred in the case of one of the Mr. Cardwell: A death occurred in the case of two of the permanent staff, who resided at Hounalow, about a month ago. The regiment assembles on Monday next, and careful precautions will be taken by the Surgeon to prevent any risk of infection. The recruits, who have been there nearly a month, are very free from sickness, and it has not been thought neces-

sary to postpone the training of the regiment.

The Lunacy Regulation (Ireland) Bill, passed through committee

On Friday,

Mr. Cowper-Temple, seconded by Mr. Holmes, moved an address calling on the Government to take measures, in accordance with the address to the Crown carried last year, for preance write the address to the Crown carried last year, for preserving as no pown apoce, for purposes of health and recreation, exceeding the control of the Exchequer and by Mr. Gladstone, but was ultimately carried, the Government being beaten by a majority of 101–197 to 96.

On Monday, May 1, In answer to Mr. Jacob Bright,

Mr. Bruco said that the Registrar-General, at his own instance and for the public information, obtained returns of the proportions of vaccinated and unvaccinated persons who died of small-pox in the metropolis; but after two months' experience he discovered that the returns were inaccurate and incomplete, and he, therefore, of his own authority discontinued the publication of them. With respect to the vaccinated, there was no evidence of the completeness of the vaccination, and, further, the returns would be misleading unless something like the proportion of vaccinated to unvaccinated persons in the kingdom could be ascertained.

Mr. T. Chambers asked the Secretary of State for the Home Department whether his attention had been called to the fact Jepartment weterer has attention had been called to the fact that the property of the property of the property of the property of opinion, in order to before the property vaccination Act were too the penalties of the Compulsory Vaccination Act were too severe, and that a nominal penalty first, and, in case of neglect, one penalty of 20s., was all that ought to be enforced; and whether, in consequence of that opinion, the Home Secretary had given instructions to magistrates to refrain from inflicting repeated fines or imprisonment on successive prosecutions for the neglect of vaccination in the same case where parents had a conscientious objection to the practice.

Mr. Bruce said the committee referred to was still sitting, and had not reported. He had not heard that any such expression of opinion had been given by the Medical Officer, and he rather had reason to believe that it had not; but, however this might be, he should not interfere with magistrates in regard to the administration of an Act of Parliament on the

mere opinion of a Medical Officer.

There was a brilliant debate on Mr. W. H. Smith's resolution in amendment to Mr. Lowe's amended Budget, in which tion in amendment to inr. Lowe a amended Budget, in which he now proposes to meet his deficit by a sixpenny income-tax. Mr. W. H. Smith moved—"That it is inexpedient that the income-tax should be increased to the extent contemplated in the financial proposals of the Government."

the hisaccal proposals of the Government.

On a division, Mr. Smith's resolution was negatived by a majority of 85—335 to 250; and in Committee of Ways and Means the income-tax resolution was agreed to.

THE LATE SIR JAMES SIMPSON .- A large and influential meeting of the London and Edinburgh Committees for raising a memorial to the late Sir James Simpson was held at Stafford House on Thursday last, the Duke of Sutherland in the chair. The Lord Provost of Edinburgh and many of the members of the joint committees were present. It was the members of the joint committees were present. It was announced that the progress of the subscriptions was up to this time very satisfactory, upwards of £5000 having been collected in this country alone. The friends of Sir James in America were actively engaged in raising contributions. A hope was expressed that intending subscribers would forward their con-

tributions as soon as possible, so that the list might be closed.

MR. DARWIN.—Mr. Darwin has presented to the Uniwan. Lanuis.— ar. Darwin has presented to the University of Cambridge the remainder of the collections in invertebrate zoology made by him during the celebrated voyage of the Beogle.—Atheneum.

THE ANNUAL ORATION DELIVERED REPORE THE

MEDICAL SOCIETY OF LONDON. MONDAY, MAY 1.

By WM. CHOLMELEY, M.D., F.R.C.P.

AFTERsome introductory observations on the honoured age of the office of Orator to the Medical Society of London, and the long line of distinguished men who had held it, the Orator remarked that he proposed to show from the records of the meetings of the Society since 1773, the share it had had in the advancement of therapeutics and the science of Medicine; and as an example of the care, resolution, and persistence with which it worked out subjects brought before it, he first traced out the history of vaccination in connexion with it.

In June, 1798, Dr. Sims, the President of the Society, related "Some circumstances lately observed in a disease innaca. Some circumstances lately observed in a disease incident to Cowa, called the Cow-pock, which, when communicated to the Human Species, is said to remove the liability to Small-pox, in persons who have had that disease. These Small-pox, in persons who have laid that disease. These observations had been made by a Dr. Jenner, of Cheltenham, who is about to publish them. It may be suspected, from the way in which Dr. Sissa mentions Dr. Jenner here, that he had not recognised him as being the "Edward Jenner, F. R.S., Surgeon, of Berkels, Gloucester," who had in 1789 been made a Corresponding Member of the Society In April, 1799, a cletter was read on the subject of cove-pack from Dr. Jenner; on April 28, in the following year, he was present at the meeting of the Society, and on that and several succeeding evenings cow-pock occupied the attention of the Fellows. On June 8, 1801, it is recorded that "Edward Jenner, M.D., of Bend-street, a Corresponding Fellow, was elected one of the ordinary Fellows:" and on March 29, 1802, it was resolved..." That the Members of the Medical Society of London, on taking into consideration the very important discovery made by Dr. Edward Jenner, are of opinion that great benefit will accrue to the inhabitants of these islands, and to mankind in general, from the introduction of vaccine incoulation, and that, from their own experience, as well as from the extensive and suc-

their own experience, as well as from the extensive and encessful trials made in various parts of the world, it will in all probability cradicate the small-pox, one of the most fetal discussed to which the human species is liable.

A copy of this resolution, signed by the President, was ordered to be ent to Dr. Jenuer. These facts show, gentlemen, that at any rate the Medical Solviety of London is not open the reproach of the discussion of the president of the proposal of the property of the proposal of t or of having been slow to appreciate and honour his labours. In 1804 the Society further signified their appreciation of the value of Dr. Jenner's discovery by presenting him with a gold medal, "struck from the Fothergillian medal die," with the inscription "E. Jenner, socio suo eximio ob vaccinationem inscription "E. Jenner, SCOL SHO EXIMID ON TRECHMENDER, and on the presentation of the medial, at the annual meeting of the Society, Dr. Lettsom, by request, gave an oration on the discovery of vaccine incoulation, and a biographical account of Dr. Jenner. Evidence may be found in the records of your Society at this time, and later, that when men had once secepted the doctrine of vaccine inoculation they often expected more from it than did its discoverer—they credited it with a more invariable, absolute, and lasting protective power; and some of them even hoped to find in it a protective against other diseases than variola. Then, as in protective against other diseases than various. Then, as in our own time and in all times has so often happened, the dis-ciples outran their master in enthusiasm, though not in know-ledge or diserction. In November, 1803, Dr. Marcet read to the Society a letter from Dr. De Carro, of Vienna, on the sup-posed discovery at Constantinople of the vaccine inoculation being a preventive of the plague. It was stated that 5000 or 5000 openious hall been inoculated for a wealth is received. being a preventive of the plague. It was stated that 5000 or 6000 persons had been incoultated (or, as we call it, vascinated) at or near Constantinople, none of whom had since been infected with plague; that Dr. Valli had inscalated himself without effect with matter from a plague-carbuncle mixed with vaccine matter, and that Dr. Auban had visited two villages near Constantinople in which the vaccine pustules were observed on certain cows, and the inhabitants of which affirmed that the plague never appeared among them." All this information had been communicated by the Physicians to the French Embassy at Constantinople. But at the very next the French Embassy at Constantinople. meeting of the Society Mr. King reported that Dr. Lafont, of Salonica, had had two patients with the plague, one of whom

died of it, who had both been previously vaccinated. A few years later it was also reported, "upon the authority of a person keeping a large number of dogs, that the cow-pox prevented the distemper from ever ensuing. It was his practice, accordingly, to vaccinate the young dogs within the ear. He never knew them after to have the distemper." I remember this idea cropped up again some years ago; great numbers of dogs were vaccinated inside the ear, and the question of vaccination rersus distemper was much agitated, and then again died away. In 1837 Mr. Whitmore, Mr. Deady, and other Fellows observed that vaccination would always cure ertussis, and it was stated that this had been well known to Mr. Ring so long back as in the year 1809. Probably whatever truth there was in this might be explained by the fact that one acute constitutional affection will sometimes mask, or cause the temporary disappearance of another. From 1805 the subject of temporary meappearance of another. From 1900 the subject of vaccination was frequently before the Society, and objections and doubts were raised and discussed, which are matters of discussion to the present day. In April, 1805, the President of the Society "mentioned that a gentleman had stated that if syphilis was communicated by vaccine inoculation, it might readily be was communicated by vaccine inocusation, it magni reasuly to distinguished by the appearance of the pustules. Dr. Lettsom asked, Could the disease be "so communicated"; but he appears not to have obtained any answer. Very frequently cases of variola, after vaccination, were brought forward to prove the failure of the vaunted protective power of vaccination; then, as still in our days, some men were disposed to make too much of these cases, and to regard them as proving that vaccination only created a false and dangerous confidence of security; and others were too much inclined to explain away or make light of them, and to declare "that cases of variola after vaccination were much more rare than cases of second attacks of small-pox;" both parties being alike forgetful of Dr. Jenner's estimate of his great discovery. But your Society was careful to note and examine into any public statements of injurious effects having followed vaccination, and in November, 1812, it was stated to the Society that "one of the cases of reported death by cow-pox in the weekly bills of mortality had been satisfactorily accounted for; the child had, a week after vacstudies of the control of the control and the component of the control of the control of the component of the component of the control of the component of the control of t asserting that its death was occasioned as just stated, and not by oow-pox, as inserted." I will not try your patience, gentle-men, by pursuing this subject further, though I might show you and it some rather a depressing fast) that thirty, forty, and fifty, and more years ago, the Society discussed the efficacy of diluted vaccine lymph, the necessity of revaccination, the importance of the number of inoculations to be made, and the propriety of now and then having recourse to the cow to restrengthen the lymph, just as the Profession is discussing them now. I will only give one more quotation from our records on this matter, and then I will leave it; and I make this quotation because it seems to give an answer to two questions which I have heard asked during the present epidemic of small-poxviz., whether it can be necessary to give the protection of vac-cination to people who have had small-pox, or to those who are very advanced in life. At a meeting of the Society in January, 1820, a Mr. Brown adduced an instance of the occurrenes of small-pox in a married woman who had been inoca-lated with variolous matter in her infancy. The disease pro-ceeded regularly, and left the cicatrices of pustules, which were intermixed with the marks of those produced by the inocula-tion." And Dr. Merriman made the following statement:— "A young gentleman at school at the Charterhouse was brought to the residence of his grandmother, the Hon. Mrs. Anson, having been attacked with disease, which turned out Amon, having been stacked with disease, which turned out to be small-pox. He went through the disorder, and was visited by Lady W. Amon and Lady Lloyd, ladies related to family. These ladies, who had been inoculated for small-pox many years ago, both received the disease, and went through it. Lady Lloyd, who was 80 years of ago, was in-out the per infance. Society's existence, it was determined to offer, error, see not have a wold modal for the best diseasets.

of the first year of the Sconety's existence, it was determined offer, every second year, a gold medial for the best dissertation of the control of the second year, a gold medial for the best dissertation of the second year of the second of the second year of the second year. The second year of the second year of the second year of the second year of the second year. A lady Dorothea Anna Maria Lucia Hogan Horick van Lobrecht—and that, on the recommendation of the Council,

the Society resolved that the lady's dissertation should be returned to her, with a letter, "to be wrote in Latin," stating the reasons why the Society could not admit it. Nothing more than this is to be found in the minutes of the Society's meetings; but, on examining the minutes of Council, I find that the dissertation, written in Latin, was received in competition for the Society's gold medal for the best essay on fevers, and that the Council, together with the Committee of Adjudication, having examined it, recorded their opinion-"That the Society cannot properly take cognisance of it, it being calculated to intro duce some empirical nostrum of the authoresa, which is to cure fevers in general." One cannot but feel curious to know a little more about this Dorothea Anna Maria Lucia Hogan Horick van Lobrecht, who thus wrote an essay for the fi gold medal offered by the Medical Society of London. Was ahe a forerunner, a type, of the Medical ladies of the present day? If so, then, "appearing ere the times were ripe," and lacking, I suppose, the mental force necessary for making her mark on the age in which she lived, she seems to have disappeared into the darkness and oblivion that envelope many another apostle of progress; for the above entries in the records of your Society tell all that I can discover concerning this learned lady of the multitudinous names.

The first paper read before the Society, on September, 1773, appears to have been "On Loss of Voice," by Dr. John Millar, the President; and the second, read the same evening, was by that untiring and eminent supporter of the Society, Dr. Lettsom, and was entitled "Some Observations on the Cause of Pain in and was entitled "Some Observations on the Cause of Pain in Chronic Rheumstism;" but only the titles of the papers are given in the Minutes. At the next meeting Dr. Sima contributed "An Essay on the Ability of the Physician to Cure Simple Feerer;" and Mr. Blizzard a paper "On the Use of Bell-metal Mortars in Apotheraries Shops;" and in December. Dr. Lettsom read some "Observations on the use of Cold Deckhers. The Contribution of the Use of Cold Deckhers. The Contribution of the Use of Cold Deckhers. Bathing in Fevers, and on the Effects of Perspiration;" and a aper "On the use of Elm-bark in the Cure of Leprosy The bell-metal mortar question may be regarded as settl and I suppose we are pretty well agreed that we may guide a patient through a fever, but cannot enre it; but we are still questioning and writing about the value and asfety of cold applications in fevers, and our German brethren especially are pointing out their great efficacy in typus and other pretice conditions; and the value of elm-bark in skin diseases remains undetermined. I find very early in the records of the Society many instances of the value of electricity in the cure of disease. In 1777, Mr. Robert Sherson reported "A Case of Severe Rheumatism of the Arm, cured by Electricity after other Remedies had failed." He said also that "he had found elecaccurate usu rated. He said also that "he had found elec-tricity singularly beneficial in spasms, and various obstrac-tions, particularly of the menses." His paper may be found at page 221 of the first volume of the "Mem.irs of the Medical Society of London" "whitehad to make the Mem.irs of the Medical Society of London," published in 1787.(a) And in November, 1779, Mr. Ford read a paper "On the Loss of Voice cured by Electricity." In 1783 and 1787 Mr. Hooper reported "Cases Electricity." In 1783 and 1787 Mr. Hooper reported "Cases of Periodical Headache cured by Electricity," and at the latter date gave some particulars relative to animal magnetism. In Tree Dr. Thomas Fowler, of Stafford, reports "A Case of Obstinate Quartan Ague, of five months' continuance, cured by Electricity." It had resisted bark and arsenic, which we may be sure he gave full trial to, and other remedies, and then he recollected that "in the early part of his practice he had known of a number of agues cured by the application of electricity in different parts of the country, under the direction of persons no way connected with the Faculty. I observed," or persons no way connected with the Faculty. I observed he says, "that the chief cures were performed by a number of smart shocks being given, by which the patients were impressed with a strong sensation of fear, and frequently thrown into a copious sweet." A coordingly he ordered the patient, "as soon as he are sense of the control as she perceived the least sensation of the fit, to receive ten or more smart shocks through her arm and thorax from a tenonnce vial, until she was seized with fear and began to sweat, and then to go immediately into a warm bed, and promote the and then to go immediately into a warm oct, and promote the sudorfife effect for some hours by taking frequent draughts of tepid small-wine whey," and by this means he completely cared his patient. This paper will be found in the third volume of the Society's Memoirs. Towards the end of 1792 another case of the Society a memoirs. Towards the end of 1/92 another case of the cure of aphonia by electricity was reported, and a letter was read from Dr. Jameson on animal electricity. "showing the existence of such a power in the nerves of animal bodies"; and the next notice of the therapoutical value of electricity is, I think in November, 1816, when Dr. Clutterbuck related a case of profuse

⁽a) The second volume of these Memoirs also contains a case, reported in 1779, of tetanus (or rather trismus) cured by electricity.

hæmatemesis with amenorrhosa, in which nothing did good till repeated slight shocks of electricity, passed through the pelvis, brought on the catamenia. After that date I have not found any proofs that Medical electrication was specially brought before the Society till we come to our own days, when, as I need not remind yon, the subject has been ably treated by Dr. Althaus, and others of our existing Fellows.

In September, 1790, several of the members reported to the Society "Cases showing the value of Cowhage as a Vermifuge in tenia and other worms." and in 1791 Mr. Chamberlain, an in tenis and other worms," and in 1791 Mr. Chamberlain, an authority them on vermifage medicines, reported "that he had met with a case of worms in an infant three weeks old, and brought up at the breast." In February, 1792, Mr. Jonas Maldon, of Putney, related a case of tenia successfully treated by oil of dripentine; and in 1809 Dr. Southey, of Durham, informed the Society "that a labouring man there had been extremely successful in curing tape-worm, and that on inquiry it was found that his remedy was oil of turpentine taken fasting in doses of two ounces." In the years 1810 and taken fasting in doses of two ounces. In the years 1810 and 1811 the value and the dose of this remedy were frequently discussed; but I find that in April, 1812, Dr. Walker, of Lecis (a Corresponding Member, I think), addressed a letter on the subject to the Society, asserting that he had been, in 1708, the first to employ the oil of turpentine in tenia, and that he had given it with success in ninety cases. In 1809, also, the modern use of fern-root as a remedy in tapeworm was brought before the Society.

In 1799, during a discussion on the value and safety of lead as a remedy in hemorrhages, it was mentioned that in St. George's Hospital the oil of turpentine was employed internally as a styptic. These are instances of what must have been one of the specially great and beneficial uses of the Society in those days—the spread of the knowledge of new or little known medicines and Medical appliances. The following are other examples:—In 1797 Mr. Hurlock informed the Fellows that he had found an ointment prepared with extract of common savin very efficacious for keeping blisters open. In 1813 Mr. savin very emeacous for keeping dissers open. In 1813 Ar.
Powell mentioned that "many persons suffered extremely from
blisters, the fly being absorbed and producing strangury; but
he had now adopted the practice of placing over the plaister a piece of silver paper, which does not prevent it from acting, and never occasions strangury or ulceration, so common in children." In 1807 Dr. Taylor sent to the Society, from India, some specimens of the gentiana chirayta, as a new and valuable

Dr. Fowler's "Medical Report of the Effects of Arsenic" was published in 1786, and, in 1790, Dr. May reported to your Society "A Case of Ague cured by Arsenie": in 1795 "A Case of Obstinate Intermittent Fever cured by Arseniate of Soda or Organizate information rever given by Armeniate of Scoia, Simply proper of the great value of Scoia of the President atter-mittents. In 1802, I meet with mention of an employment of armenic, with which I was not previously acquainted. Mr. Pears informed the Society that he had found armenie of great use in pertussis; "that it relieved this distressing complaint use in pertusas; "that it relieved this distressing companion on the second day of its administration. He gave one drop of Fowler's solution three or four times a day." Dr. Yellowby stated that "it had been recommended in this disorder by Dr. Ferriar, of Manchester, a very trustworthy Practitioner." In 1813. Dr. Lettsom and Mr. Adams related cases of the good effects of the arenical solution in hemicrania; "in Mr. Adams's own case it had afforded sudden and permanent relief."

In 1794, Dr. Sims spoke of the effects of nitrate of silver when In 1794, Dr. Sims spoke of the effects of nitrate of silver when taken internally; and, in 1802, he read a paper on its great value production of the produc fifth of a grain, three times a day, without causing pain in the stomach, he had heard of a Physician in town who had given eighteen grains a day." At one of the meetings in 1819, it is mentioned that "Dr. Clutterbuck briefly adverted to the blue colour imparted to the body by the internal use of nitrate of

In 1790 a case of dropsy cured by digitalis is reported, and again, in 1798, the tincture of digitalis, in twenty-minim doses, is recommended "as a valuable remedy in dropsy." And in 1806, Mr. Leese stated that "he found that hooping-cough could generally be cured in three weeks by tincture of digitalis. He began by "giving two drops in milk of almonds, and gradually increased the dose till sickness." In 1810 Mr.

André related that "a gentleman of his acquaintance had found out a remedy for palpitation of the heart, with which he was afflicted, and the remedy was the tincture of digitalis, taken in drachm doses.

The value of elaterium as a purgative in dropsy is mentioned by Dr. Sims as early as 1798. In 1819 I meet with the first mention of prussic acid as a medicine, and it was not an encouraging one. Dr. Uwins had tried it and found it to be encouraging one. Dr. Uwins had tried it, and tould it to be quite inert, Dr. Clutterbuck thought it objectionable on account of the uncertainty of the dose and its liability to de-composition; he had tried it at the General Dispensary, but had not observed any good effects from it. In Paris, it was stated, no confidence was placed in it. Later on it is spoken of with much more respect, and warnings given against its in-

The state of the society, Dr. Clutterbuck, intro-duced croton oil to the notice of the Fellowa as "a new pur-gative sent over by Mr. Cornwell, Surgeon at Madras, to his friend Mr. Short, an apothecary in Rateliti-highway. Dr. Cutterbuck had given half a drop in fifteen cases, and found Clutterbuck had given half a drop in fifteen cases, and found that it generally produced from three to twelve stools, while in one case it caused as many as twenty." Dr. Copland observed that on the coast of Africa, where the nnt grows, the natives are in the habit of taking twenty grains of the powdered nut are told that regret of rye was not employed in England to excite labour-pains till 1824; but I find that at a meeting of your Society in April, 1822 Mr. Kingdon asked "whether egyet of rye, recommended for causing neteric contractions, might not be employed for the purpose of arresting uterine hamorrhage. For exercit years offer thin hemorrhage, the several years offer thin hemorrhage, its uses and abuses, are frequently and warmly hemorrhage, its uses and abuses, are frequently and warmly discussed. In 1825, Dr. Clutterbuck, then again President, unexpect. In 1895. Dr. Clutterbuck the state of the supplied of "alluded to the sulphate of quinien as a new remedy the value of which, and the question of its superiority to bark, required inquiry and discussion;" and he also referred to iodine, "the worth of which, especially in scrofuls, was still unsettled."

The value of burnt sponge, the forerunner of iodine, s a cure for bronchocele, was noticed in 1798; but in 1813 Dr. as a cure for bronchocele, was noticed in 1/95; but in 1813 Dr. Clinterbuck recommended ironing the part three or four times daily as a cure for this affection. "A young woman at the General Dispensary, who had patiently tried all the ordinary remedies without advantage, tried this three or four times. daily, for a quarter of an hour at a time, placing finnel between the iron and the skin. For two or three "months it bad no effect, but at the end of eight months the bronchocele had entirely disappeared, and there had been no choose and churry unsuppeared, and there has been according to the patience and perseverance of the young woman certainly were admirable, and richly merited rewarding by success. In 1818 the Society's attention was directed to a means of saving life, or, at least, averting imminent danger, means of saving lies, or, as least, avering infinitest uniter, which has been before it again very lately. Mr. Brine mentioned the case of a man in Guy's Hospital with organic disease of the stomach, in whom, when nearly dead, ten ounces of blood from the arm of a gentleman were transfused into the jugular vein with a common syringe. Instant revival followed, but death occurred thirty-six hours afterwards. The short notes of the discussion in this case might almost serve as some notes of the observations made when Dr. Richardson brought the subject before us in January this year. Objections were made to the employment of senous blood, to which it was replied, that its use had answered perfectly well in experiments replied, that its use had answered perfectly well in experiments on animals, and that it was the appropriate simulant to one side of the heart at any rate. Suggestions were made as to the employment of transitusion, especially in one-of orchaution from uterine hemorrhage. In October, 1825, Mr. Doubleday reported its accossful employment. 'A woman was ap-parently in oriento from post-partum hemorrhage, when fourteen counces of blood, taken from the arm of her hatsand, fourteen ounces of blood, taken from the arm of her hashand, were alon'y injected by a syrings, two ounces at a time, into a vein of her arm. After the injection of six ounces she had greatly revived, pulse, warmth, etc., reappearing, and eventually she perfectly recovered. She had a copious secretion of milk, and in every way did well." In November of the same year, a similar case, also perfectly successful, was reported by Dr. Uwins, and a third, where from eight to ten ounces of blood were transfused by Mr. Doubleday, in 1826. This, also, resulted in recovery. I fear we have made no advance in the employment of the control of the second and admirably simple instruments for transfused and tacking, we may perhaps be emboldened to a renewed and ackning, we may perhaps be emboldened to a renewed and

more extended use of what does undoubtedly seem to be a most powerful and prompt remedy in dangerous exhaustion. Paracentesis thoracis is first mentioned in March, 1830, when the centess troracts is risk mentioned in Marien, 1800, when the operation was recommended by Mr. Kingdon, who had performed it on a patient of Dr. Babbington's. During four successive meetings the Society then discussed the symptoms and treatment of effusions into the chest, and Dr. Thomas and treatment of effusions into the chest, and Dr. Thomas Davies related that "he had known of seventeen cases of paracentesia thoracis, twelve of which occurred in his own practice; in nine there was fluid only in the chest, and of these six were perfectly well, one still nuder treatment, and two had

(To be continued)

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the

	mentio		-			-	
	-	N	o. of (ases	week o	nding	
Districts.	Mar. 25.	April 1.	April 8.	April 15.	April 22.	April 29.	April 29. Sent to Bospital.
West-	-	1		1			
Chelsea	. 5	6	1 4	9	9	3	_
St. George, Hanover					i	į.	
square	. 10	11	12	16	19	23	13
St. James, Westminster	. 4	4	8	. 8	6	2	2
Paddington	. 1	?	1 8	1	24	12	9
St. Paneras	. 65	44	122	102	121	2	-
Islington	. 49	26	45	58	57	61	29
Hackney	. 24*	29	31	P	46	30	15
City of London .	. 13	13	1 7	16	14	13	6
St. Giles-in-the-Fields	. 5	8	1 9	111	2	14	14
Holborn	. 2	3	4	8	8	9	7
St. Luke's	. 12	25	20	20	17	25	20
Whitechapel	33	15	19	14	17	2	_
	1 2	11	1	?	1	2	-
St. Mary, Newington	28	23	27	34	37	47	44
St. Olave, Southwark	- 11	5	3	3	3	5	3
St. George-the-Martyr.				1	1		
Southwark	1 8	9	19	30	31	26	16
Lamboth	33	17	32	24	2	2	_
Clapham	40.0	13	40	28	23	32	18
Wandsworth .		10	13	6	6	8	6
Putney , ,		9	7	1	1	2	
Streatham	3	3	4	7	2	2	-
Camberwell		4	1	1 9	2		
Greenwich			-	P	9	_	
Lewisham ,	2	2	4	. 8	P	?	-
Plumstead	6	4	19	6	3	3	-

· Return imperfect.

POOR-LAW DISPENSARIES IN THE METROPOLIS.

THE Poor-law Board have just issued an order varying in certain important particulars the duties of district Medical officers in some of the unions and parishes in the metropolis. This order applies to the following unions :- Greenwich, Hackney, Holborn, Poplar, St. George's, St. Olave's, St. Saviour's, Stepney, Westminster, Whitechapel, Woolwich; and to the undermentioned parishes or places :- Mile-end Old Town ; Paddington; St. George-in-the-East; St. Giles, Camberwell; St. Giles-in-the-Fields, and St. George, Bloomsbury; St. Leonard, Shoreditch; St. Luke, Chelsea; St. Mary Abbot's, Kensington; St. Mary, Islington; St. Mary, Lambeth; and St. Pancras.

The quardians are required, in June next (and sub-sequently in April of such people and superancy visiting committee, and also to appoint a dispensary visiting committee, and also to appoint a dispensary visiting roundless, and also to appoint y which shall be provided in his or their districts. The committee is to met once a fortnight, at least, to inspect the books kept by the Medical officer and the dispensar, and to ascertain, as fix as practicable, whether the several Medical and other offices attached to the dispensary have duly discharged their detine in the interval since their last visit. These words, limiting. as they do, the period to which the investigation is to extend appear designed to save the dispensary Medical officer from the annoyance to which district Medical officers are now not infraquently subjected by the raking up of complaints in respect of attendances long previously given, and of which neither record nor recollection is preserved.

The committee is to approve the estimate of drugs, etc., for use at the dispensary, when prepared by the dispenser and certified by the Medical officer. They are to report to the board of guardians the result of their labours.

The following are the newly prescribed duties of each district Medical officer when a dispensary has been established

for his district :-

"No. 1. To attend at the dispensary to which he shall be appointed by the guardians, every day except Sundays, at set time as may be appointed by the said guardians, and to remain there for one hour at the least, or for such longer period as the guardians may direct, for the purpose of affording such Medical or Susgicial aid and advice, and prescribing such medicines, as may be necessary, to all panpers for whom application is made, and in respect of whom an order is presented, as hereinster provided, and to enter in a book kept for that purpose at the dispensary the time of his arrival and departure, and to write his name or the initials of his name against such entry at the time of his attendance.

time of his attendance.

"No. 2. To stend upon, duly and punctually, either at let dispensary during the appointed hours for attendance therest, or at the home of the poor person on whose behalf application is made, or elsewhere, as the case may require, and supply all puspers in the district placed under his charge, whom he shall be required to attend as Medical officer by a written or pristed order of the guardians, or of a relieving officer, or of an overseer, when such overseer shall be lawfully entitled to grait relief to such papers.

It when the proper such as the dispensary until the guardians shall otherwise direct, all web orders as last sfer-said received by him, which orders, when given by directions.

said received by him, which orders, when given by direction of the guardians or by a relieving officer, shall be in the forms A

and B respectively in the schedule (B) hereunto annexed.

"No. 4. To keep and duly enter up daily a Medical Relief Register, and index thereto, in the form C in the last-mention schedule, and submit the same to the guardians at the first ordinary meeting in each quarter, and whenever the guar shall require it to be produced to them, which register shall be deposited at the dispensary, except on the days when the sam is required to be submitted to the guardians, and shall be optito the inspection of the Dispensary Visiting Committee, and, at any time between the hours of ten o'clock in the foreneou and four o'clock in the afternoon, to the Medical Officer of Health, if any, appointed by the vestry or other competent authority within whose jurisdiction the dispensary shall be situate.

"No. 5. To supply to each pauper under his treatment when

requisite a written prescription in one of the forms D and E is the last-mentioned schedule, signed with his initials, and to sne mas-mentioned schedule, signed with his initials, and is renew such signature, with the proper date, whenever the prescription may be changed or renewed by him either at the dispensary or at the home of the pauper or elsewhere.

"No. 6. To notify, at the commencement of every quarter

of a year, to the board of guardians, the pappers whose names have been inserted in the Permanent Medical Relief List for a period of six months, and advise the guardians as to the continuance of such paupers in such list, and to take the directions of the board of guardians thereon.

"No. 7. To attend any meeting of the Dispensary Visiting

Committee, when required by them so to do."

Those provisions of existing orders relating to the duties of district Medical Officers which are inconsistent with the foregoing are rescinded.

A very salutary provision requires that the relieving officer shall mark upon the order for Medical relief the word "urgent"

in every case requiring immediate attention.

District Medical officers will be glad to observe the terms of a note appended to the form of "Order for attendance at the

pauper's home," to the effect that, unless it be presented before noon on the day of its date, the Medical officer will not be expected to visit the patient on that day except the order be marked "urgent.

marked "urgent.

The Medical officer is entirely relieved from the duty of dispensing. For this purpose a dispenser is to be appointed, who
must be a "Licentiste of the Apothecaries" Company of London, or duly registered under the Pharmacy Act, 1868, or some other authority of law in that behalf." Besides dispensing, he is to keep the drug accounts, to file the prescriptions, and to assist the Medical officer in keeping the alphabetical index

of the paupers attended.

This order will probably be extended to the rest of the motropolis when the femaining unions and parishes have suffi-ciently advanced with their dispensary arrangements. It is a step towards establishing, throughout England and Wales, the system which has already worked so well in Ireland.

POOR-LAW MEDICAL OFFICERS' ASSOCIATION

A MEETING of this Association was held on Wednesday evening last, at the Freemasons' Tavern, the President, Dr. J. Rooses in the chair

Mr. Benson Bakes gave an account of what had been done by the Council since the last meeting to further the interests of the Association. The epidemic of small-pox had been the ect of much consideration, and in conjunction with the British Medical Association they had taken part in a deputation to Mr. Simon to represent to him the bad effects of the introduction of the Privy Council's new system of concentrating vaccination at one station, and dismissing a large number tried vaccinators, especially at the height of a very severe of tried vaccinators, especially at the neighbor a very sevence epidemic. Every effort had been made to increase the number of members. Applications for admission had been received from Poor-law Medical Officers in Scotland, but the Council had advised them to establish an association of their own, so that they hoped at their next meeting to be able to announce that there was a Poor-law Association in Eugland, Ireland, and Scotland, and that all three were acting in concert.

Mr. Corrance, M.P., moved the first resolution—"That this meeting, considering the present inefficient system of Medical relief in the United Kingdom, as contrasted with the beneficial and economic arrangements prevailing in Ireland since the introduction of the Medical Charities Act of 1852, are of opinion that the adoption of a similar system here would prove highly beneficial to the sick-poor and economical to the rate-Mr. Corrance regretted that there was not a larger attendance, because, since the commencement of the Association, no more important matter, nor one more likely to become law, had been brought before them than that laid down by their President. Opposition would be raised, jealousy might arise, but he believed that would soon disappear, and it would be found as it found that arrives meeting an absorbed found, as in Ireland, that private practice was benefited. As to payment of Medical officers, it seemed to him that Dr. Rogers was right in urging that this should be drawn from the consolidated fund. Mr. Corrance condemned the narrowness of views entertained at Gwydyr House in this respect. Their of views entertained at cwyour ratures as an eventual wisdom was about on a par with that of the guardians, and about equally successful in defeating its own ends. Mr. Corrance noticed how benefit societies had long ago discovered that good Medical attendance for their members was a most that good Medical attendance for their members was a most economic measure; and he should like to see a dispensary system established with which these societies should act in cordial co-operation. He thought it was abundantly proved that the introduction of such a system as the Medical Charities Act would tend to diminish pain and suffering, and to lessen the burdens of the ratepayers. every close observer it must be evident that our present poorlawsystem was a failure. We try now this system, now that; but the rates do not decrease, while pauperism increases. A radical reform was therefore necessary. He (Mr. Corrance)
was in favour of separating the young and the sick from all
pauperising influences; the remainder forming pauperism
would be small.

Mr. BENSON BAKER seconded the resolution, and in doing so gave his experience of the ill effects of the concentration of vaccination and of the carrying of small-pox patients long distances to Hospital. Our whole poor-law system was in a chaotic state.

The resolution was put and carried unanimously.

Dr. Harding moved the second resolution:—"That this

meeting regrets that at a time of epidemic of small-pox the Privy Council has advised guardians to lessen the facilities for vaccination by the dismissal of district vaccinators, and the appointment of one vaccinator to large areas and populations, as in St. Marylebone and St. Paneras. This meeting further suggests that the evidence of district Medical officers should be taken by the Parliamentary Committee now sitting on the vaccination question." Insupport of the resolution, Dr. Hardinge adduced statistics showing that the dismissal of the district vaccinators was not in consequence of any neglect of duty. Of the six vaccinators in St. Paneras, wherein the system of the Privy Council had been introduced, he had the returns of three. From these he found that between January 21 and April 21 the number of revaccinations performed by Mr. Harvey was 2400, of primary vaccinations performed by air. Harvey was 2400, of primary vaccinations nearly 1200; by himself, 1500 revaccinations, and nearly 500 primary vaccinations; by Dr. Thomson, upwards of 1000 revaccinations, and 500 primary vaccinations.

ood primary vaccinations.

Mr. Krunty and the resolution. He condemned Mr. Krunty with a Corolar veid; and explained how benedicial improvements were opposed by the permanent officials at Grayly House. There was almost a refusal on the part of the Committee, which sat for three years considering poor-law matters, to hear evidence from Poor-law Medical

The Rev. W. H. Joy moved-" That the Council of the Poorlaw Medical Officers' Association having considered the unjust prosecution of Mr. Defriez, one of the Medical officers of Bethnal-green, beg to tender to him their heartfelt sympathy for the mental anxiety to which he has been so iniquitously subjected. They congratulate him on the result of the trial, and express their determination to open a subscription in order to relieve him of some of his legal expenses."

This was seconded by Dr. STALLARD, and supported by Dr. Janvis, and carried unanimously.

A vote of thanks was passed to the President, and the meeting then concluded.

FOREIGN CORRESPONDENCE.

FRANCE.

(From our own Correspondent.)

MEDICINE UNDER THE COMMUNE.

Paris, April 26. Among the late changes in the Medical Department which have taken place since my last communication is the sup-pression of the administration at the Hôtel de Ville, composed presents of the saministration at the riotel de ville, composed of Drs. Herzfeld and Courtillier, and the creation of a new service, opened in the building of the Ministry of War, Rue Saint Dominique. The former Surgeons in Chief thus find

themselves disposed of without any further explanation.

Inasmuch as new comers nowadays must do something to satisfy public opinion, our Director of Hospitals has thought fit to create in each Hospital a reading-room for the benefit of nt to create in each mospital a resumer-room for the consent of convalescents. But it is not so much for the comforts of patients that this sails selecture is to be opened, as to strike a blow at the books which our Hospital libraries contain, for they are mostly of a religious character, and, therefore, says the are mostly of a religious character, and, therefore, says the Commune, "of a tendency to degrade the soul and bury all patriotic aspirations." The celitors of different journals have offered to send their papers daily free of house, in order to supply the tables with democratic periodicals, "which defend the Republic and propagates Socialism." Similar measures have been taken for public schools—that is to say, nothing any and the property of and no Bible or catechism shall enter the premises. Out of a new Medical staff recently appointed for the different battalions, composed of forty odd persons, only six of that number are Physicians. I mention this, not to astonish anyone, but merely to show that, as previously observed, no colleague of any standing will mix with the Communal Gnards.

I find upon further investigation, that I have greatly under-rated the number of wounded since the rebellion; they have been distributed in such a manner that it is next to impossible to get an exact account, and I still believe it to be under the estimate in putting the figure at 12,000. The infirmers, too, have suffered pretty heavily, in spite of their flags of Geneva: from thirty-eight to forty have been killed or wounded thus far; and it is owing to the utter disregard which is had of the white-and-red-cross band that the litter-bearers of the Ambulance de la Presse have refused their services.

GENERAL CORRESPONDENCE.

COMPULSORY VACCINATION. LETTER PROM DR. R. H. BAREWELL.

To the Editor of the Medical Times and Gazette.] Sin,—Is there to be a new test of Medical orthodoxy? Are qualified Medical men, who have dutifully paid their two guineas for the doubtful privilege of seeing their names and

games to the routiful privace of seeing their names and qualifications inscribed in the Medical Register, no longer to be allowed to have an opinion of their own about vaccination without being branded as heretics if they venture to differ from Mr. Simon and Dr. Seaton? It seems so. One may hold the most widely divergent opinions about almost every other subject—one may treat pneumonia by mint-water or extractum graminis, or by bleeding and calomel and antimony, or by brandy and strong beef-tea-and one may still be considered an Hebrew of the Hebrews and of the straitest sect of the Pharisees. But to doubt, or, at least, to express a doubt, whether it is advisable and prudent, or the perfection of wisdom and justice, to send people to gaol because they do not believe in vaccination is (to use Mr. Simon's elegant language peneve in vaccination is (to use Mr. Simon's elegant language at the Medien-Cl'irurglest Society on Tuesday night) showing oneself to belong to "a set of humbugs and impostors." Again, ascreding to the Medical Officer of the Pricy Campril, as he stated in his evidence before the Vaccination Committee a few days ago (I heard him with mine cars, which, I am sure, he will consider long enough to be accurate), everybody who, at the present time, when it is notorious that the large majority of cases of small-pox occur in vaccinated persons, doubts that vaccination is a prophylactic against that disease "is either ignorant or dishonest." This is pretty language to be imported into a scientific discussion!

Your contemporary the Lancet, with that exquisite good 1001 Contemporary the Lower, with that exqueste good taste and sense of propriety which always distinguishes its classical pages, brancled one of the candidates for the appointment of Medical Officer of Health for Kensington as "an inveterate opponent of vaccination." The gentleman in question meet of representations of According to the action of the control not correct to attribute the present epidemic altogether to neg-

lect of vaccination.

lect of vaccination."

Now, putting aside for the present the cause of the present epidemic, which, considering that we have had a compulsory vaccination law for seventeen years, can hardly be attributed entirely to the neglect of vaccination, I should like to know why a man is to hiane even if he be "an anti-vaccinator."

Why is a man who, after careful study, shares the opinion of the late Dr. Copland, to be nichamand an anti-vaccinator?

No General Medical Council has pronounced Jenner to be inclibidate one; vaccination the one subiect which it is to be fallible; nor is vaccination the one subject which it is to be

forbidden us to think about and discuss.

At the Medical and Chirurgical Society the other night, several speakers praised Mr. Hutchinson for his "courage" in bringing forward the eleven cases of chancres produced by vacorniging forward the elevern cases of chancers produced by vas-cination. Why should it require any more 'courage' to from pysmia after an operation? But it does, and it could only be done by a man occupying Mr. Hutchisson's high posi-tion in the Profession. A couple of years ago there appeared in your columns the meekes tittle article that could be written. in your columns the meckest little article that could be written, in which I ventured to insinate the possibility that leprow is sometimes conveyed by vaccination. In the following number, a goutleman, whose name I had never heard before, lectured me in the severest style, and showed the depravity of my conduct and the absurdity of my suspicious in such a way as to make me shed tears of repentance when I read his letter. I thought him very harsh at the time; but I hope I have been a wiser man since.

waser man since.

Believing that, when properly performed with pure lymph and with all reasonable precautions, vaccination is a very useful protection in the majority of cases against small-pox, I yet do not believe that it ought to be enforced by law. I was called as a witness the other day be forn the Vaccination Committee, but was not allowed to give evidence on the general question, but only on my personal experience as an official charged with carrying out a compulsory vaccination law, and as to the con-sequences of vaccination in the tropics. Having prepared evidence on the whole question, and intending to show the

Committee the process of reasoning by which I had been converted from a compulsory to a non-compulsory vaccinator, I was rather put out by being informed by the chairman that my evidence must be restricted to my personal experience in Trinidad. I had thus at a moment's notice to perform a task that would have puzzled a German metaphysician, and separate the ego of Trinidad from the ego of England. The consequence naturally is that my evidence was very incomplete, and was

naturally is that my ovidence was very incomplete, and was not sufficient to justify my change of opinion. Without repeating what I said before the Committee, which will be duly reported, allow me to state very briefly the reason why I think compulsory vaccination unjust and impolitic. First, I take it as an axiom that the State has no right to force a parent to submit his child to any Surgical operation.

however trivial, and more especially to one involving the con-veyance of an animal fluid from one human body to another, veyance or an animal fluid from one human body to another, with all its possible risks of syphilia, etc., unless it can be proved that there is a clear gain of lives to the State sufficient to compensate for all the risks of the operation.

Now, we have reliable statistics, extending far beyond the date when the first Compulsory Vaccination Act was passed Not only has the general mortality of the country not diminished since that Act was in full operation, but it has increased. Not only has this been the case, but the proportion of deaths from zymotic diseases other than small-pox has increased one-fourth; and more significant even than this is the fact that the deathrate of children under 5 years old has increased also. In the five years 1838-42 the mean annual death-rate of England and nve years 1888-32 the mean annual death-rate of England and Wales was 22-09 per 1000; the mean annual death-rate from zymotic diseases was 4-39 per 1000, of which no less than 57 (or nearly one-eighth) arose from small-pox. That was at a time when inoculation with variolous matter was largely proctised, and long before compulsory vaccination was thought of

tised, and long before compulsory vaccination was though at Now, let us compare these rates of mortality with those of the last six years, for which the Registrar-General's report are published. The six years 1885-58 show an annual death-rate of 23-01, a death-rate from zymotic diseases of 5-04.6 which only '22 arise from small-pox. Thus it is clearly shown that, although the mortality from small-pox has lessened the death-rate from other zymotic diseases has so much increased as to swallow up all the gain by small-pox and raise the general death-rate as well.

Now, let anyone look at the Registrar-General's weekly returns, and they will see that the weekly mortality even now is not above the average. The present small-pox epidemic began when scarlatina was epidemic, but as small-pox increased scarlatina diminished, and now scarlatina is much below the average. During the late scarlatina epid emic small-pox was extremely low.

Then, again, as to the death-rate of child ren, I have carefully examined into this point, and find from the Registrar-General returns that (taking his, or, rather, Dr. Farr's figures) the death-rate of males under 5 years averaged 70:86 per 1000 annually during the eight years 1838-45, and of females 59:31 annuary during the eight years 1000-10, and of remains or per 1000. In the seven years ending 1867 the mean dealtrate of males was 72-87; of females, 63-31. This shows a serious deterioration of the public health.

It is impossible to go fully into this subject within the limits of a letter, or I could produce overwhelming proof that compulsory vaccination has done nothing to improve the public health, and that it has done much, very much, to excite prejadice against vaccination, and to arouse a violence of opposition such as we never heard of under the old system.

In conclusion, I would say with Dr. Farr, that in all sanitary measures "the primary object to aim at is placing a health stock of men in conditions of air, water, warmth, food, dwelling, and work most favourable to their own development. The vigour of their own life is the best security men have against the invasion of their organisation by low corpuscular forms of life. Vaccinate by all means, but at the same time provide streets, spaces, dwellings, water, and drainage. These are wise and noble words, and, notwithstanding the anathenss of Mr. Simon, I for one adopt them as my creed. In questions of pure pathology I have the highest respect for Mr. Simon's opinion, but in questions of vital statistics I prefer Dr. Farr's opinion, out in questions of vital statistics I prefer Dr. Fair or even that of one who has in the present letter been guilty of the "reckless absurdity" and the "dishonesty" of speaking of the general death-rate of the country.(a)

R. H. BAKEWELL, M.D., I am, &c., R. H. Bakkwell, M.D., Medical Officer of Health and Vaccinator-General for the Colony of Trinidad, etc. Hendon, N.W., April 30.

(a) Vide Mr. Simon's evidence before the Vaccination Committee.

FEMALE PHYSIC IN EDINBURGH.

[To the Editor of the Medical Times and Gazette.] SIR.—The Scotsman of the 29th of April contained the following :-

"LADY STUDENTS AND THE LEITH HOSPITAL - Some time ago the Acting Committee of the Association for Promoting the Medical Education of Women communicated with the directors of the Leith Hospital, with the view, if possible, of having that institution made available for the clinical instruction. tion of ladies. In order to adapt the Hospital for the purpose in question, it would have been necessary to extend its accommodation by thirty additional beds, and to procure the services of competent clinical instructors. After various communications had passed between the directors and the committee, the matter was remitted to the Medical officers of the Hospital. The result of the remithas been that these gentlemen, by a majority, agreed to report as follows to the directors:—That it is inexpedient to alter the present arrangement of the Hospital, or to convert it into a Medical and Surgical Hospital for the clinical instruction of ladies. The directors have approved of the report, and the negotiations, so far as we can learn, are now at an end."

Such is the latest "slough of despond" in which, with characteristic skill, the guides of the Female Medical Movement here have laid floundering their unfortunate victims.

ment here have also nonneuring their unfortunate victums. You and other sensible people at a distance may, perhaps, hope that here at last is the inextricable dead-lock. Far from it. Those who, like myself, for our sins, know Edinburgh botter, know that this is but the momentary pause of an ava-

lanche-and such an avalanche!

It is, alas! a too common error with sensible people to imagine that stupidity must necessarily issue in failure. Such, doubtless, in the long run, is the doom awaiting it. The eternal laws of God and His universe will, somer or later, assert their rights. How easy, however, even for stupidity to assert their rights. How easy, however, even for stupidity to draw a bill on the book of eternity at a longer date than our poor balance of three score years and ten! Are we not told that against stupidity the gods themselves, unbacked by such eternity, were powerless? These, its latest votaries, then, such etermity, were powerrees: Anese, he havest volarities, such doubt it not, will again return to the charge; nay, what is more, will one day return successfully. For pandering, under their mask of humility and Christian philanthropy, to every low instinct of an ignorant and vainglorious mobocracy, superciliously as far above argument by the fulness of its purse, as hopelessly below it by the emptiness of its skull-wisely, moreover, like other ignoble vermin, raising a rampart of filth around them that the boldest may well shrink from scaling (an arm-to-arm wrestle with a skunk, how horrible!)—what is to hinder their trium.phant entry, after a little more mining and sulphuretted trumphant entry, after a little more imming and suppurersizes hydrogen, into our Infirmary, yoked as it is by its glorious constitution to the wriggling tail of that quack-ridden hask an "enlightened public." Fut on the black cap, then; pronounce sentegee. Write "Ichabod" over the portal; and God have merey on our miserable souls for, with Miss Jets Blake have mercy on our miserable souls! for, with Miss Jer. Blake and the Jex Blakeites in possession of the infirmary, the latitude and longitude of the Edinburgh School of Medicine in the depths of the bottomless pit will be a simple schoolboy's task in logarithmic calculation. Can such infamy, you ask, be in store for the giorous home of the Munroes and fells, of Liston and Sune J. Go, gaze on Marathon, and have your throat cut by Greek brigandar M. G. M. M. D.

I am, &c.,

EARLY RETIREMENTS AND THE RESERVE FOR ARMY MEDICAL OFFICERS,

[To the Editor of the Medical Times and Gazette.]

Srn,-Some time ago I wrote a letter to your journal on the subject of an Army Medical Reserve, and proposed that Army Medical Officers of ten years' service should be allowed to retire from the active army on some modification of their ultimate claim to pension, and become connected with the reserve forces of the country. I proposed that they should be allowed to settle down in one place and engage in private practice, doing duty with the reserves of the district when required. I hoped that by these early retirements being allowed a great acceleration of promotion would be the result; and I attempted to give weight to my proposal by what I may term the moral argument that Government ought either properly to provide for its officers or allow them to leave the active army sufficiently early to have a fair chance of engaging with success in a new walk of life. At present, a Medical officer, in most cases, con-

not afford to leave the army till entitled to claim his powmanent pension, and, indeed, I may say, not then. In thinking over the subject again, it has occurred to me that it might be for the subject again, it has occurred to me that it might be for the subject again, it has occurred to me that it might be for the might of the fine subject to the district of the subject of the s permanent after twenty years' service, as at present. If these figures will not suit the Chancellor of the Exchequer, perhaps segment was now suit the Chancelor or the Exchequer, perhaps someother terms might be invented that would pay the State, and at the same time induce a great exodus of Army Medical Officers at all periods of service. At present, there is a dead look in the way of promotion, which is likely to continue unless something is done to induce men to retire. That so sufficient inducements are held out at present may be accepted as a fact. Men will not retire. Year by year Medical examinations are becoming more difficult, which will tend to thin the ranks of Medicine as a Profession; and, consequently, in years to come, greater difficulty may be experienced in obtaining Surgeons for the army, especially as the combatant branch will probably become namy, especially as the comparant branch will probably second more of a profession, and attract many who now enter the army as Medical officers. Men who can enter the army at 18 will not go and study Medicine to gain nothing except a little knowledge, in order to enter the service at 24 or 25. In fact, the combatant branch will compete for recruits against the Medical, and attract most of those with military tastes. As a means for inducing present promotion and attracting future Medical recruits, I propose short service and temporary pensions, with the chance of engaging in private practice before it is too late, with a little assistance from the State for the first few years. A pension of a few shillings a day would be a great help to a young man for the first five years of his Professional life, while the State would retain his services for the reserve. The alternative is greatly to increase the amount of permanent pensions. Which would pay best? By allowing men to select their own time for leaving the army, they would be enabled to seize any good opportunity for starting on a civil career, and those who found that the army did not suit them, or they the army, would be able to leave after their first five years. idea with the recruit nowadays seems to be that he should return to the ranks of civil life after a short army service, being available for some years after for military service if required. Why should not the same principle be applied to Medical men who bring to the service a Profession already learned, and consequently do not require much teaching at the hands of the State !

Perhaps, if you are so kind as to publish these remarks, they mny induce someone else to state his opinions, and, if my plan will not do, some other may be devised for accelerating prowith not do solve they have been as the army in general, they may perhaps take the Army Medical Department in hand, and, by either providing properly for its members, or by offering them inducements to leave while they are sufficiently young to provide for themselves, put an end to the grumbling and discontent that has east a shadow over the I am, &c., department for years.

A PRUSSIAN "REQUISITION."-A correspondent informs us of a "requisition" which can scarcely be recorded in any other than a Medical journal. A staff officer, in full dress, with white gloves, presented to the town of Mullhouse a demand with winter groves, presented to the twin or antificuse a demand for injection syringes and several kilogrammes of balsam of copails, which were sent in some days afterwards. "History," says the Emperor William, in his address to the German Parliament," will register the mighty deeds of the Prussians."— Lyon Medical, April 16.

TANNIN IN SWEATING FRET .- Tannin forms a most excellent remedy against the inconveniences produced by excessive transpiration of the feet. The epidermis, softened by the moisture and warmth, is at once transformed by the tannin into a coating of leather, without preventing the continutaman into a coating of leather, witnout preventing to econtimate and of the excessive from a better than the common of the excessive from a beautiful to the common of the second of the common of th

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

TUESDAY, APRIL 25.

MR. CUBLING, F.R.C.S., President, in the Chair.

Mr. JONATHAN HUTCHINSON read a paper

ON A SERIES OF CASES IN WHICH CHANCRES HAVE FOLLOWED VACCINATION.

On February 7 thirteen persons (young adults) were vaccinated from the arm of a healthy-looking infant. All, except one, had normal vaccine vesicles, which healed well. In all, except two, indurated chancres have since developed in the vaccination scars. In nearly all, the scars began to inflame and harden during the first or six week. Several of them have two or three changes. The infant vaccinifer now has condylomata at the anus, and is beginning to wasto (age 6 months). She is undoubtedly the subject of inherited syphilia, he tain thaving been latent at the time of vaccination. None of those vacciseen attent at the time of vaccination. Aone of those vaccination match have as yet shown any persistent secondary rash, but several have been feverish for a day or two, and have had transitory records. In all, the sores are disappearing under mercurial treatment. The two who escaped the ryshilling contraction where the flatter or accinated, and probably they received any production of the contraction of the The inferences from the cases were-1. That the blood of a child in the latent stage of inherited syphilis is capable of producing primary syphilitic sores in its recipients, and is indeed remarkably efficient as a means of contagion. 2. That the vaccine virus itself, even when taken from a syphilitic subject, produces nothing but the true vaccine disease. 3. That the two poisons may be conveyed (in two fluids) at the same time, and may each produce its specific effects.

Dr. Bakeweit called attention to the possibility that syphilis might be conveyed in vaccination, not by blood only, but also by the mingling of epidermic scales from the vaccinifer with the lymph. He suggested, also, that the vacciniter might receive syphilis from the vaccinated if the lancet that had the lymph. drawn blood from the latter was introduced into the vesicle to

obtain its charge of lymph.

Mr. HENRY LEE thought Dr. Bakewell's suggestion about the possible conveyance of syphilis by epithelium scales was well worthy of attention. He commended Mr. Hutchinson's conrage in bringing these cases before the Society. In this country there was much difference of opinion about the pro-duction of disease by vaccination; and while many disbelieved that syphilis could be communicated by vaccine matter, their incredulity was confirmed by the official reports. There was, liowever, a very general belief that impure blood would be injurious; and it was very desirable that the conditions under which harm could be done should be fully made known, in order that Medical men might be protected from undeserved obloquy. Mr. Hutchinson had said that if nothing but vaccine lymph were taken, even from the arm of a syphilitic child, nothing but cow-pox could be communicated. He himself would go still further, and would say that if small pox and cow-pox were co-existent in the same subject, only cow-pox would be communicated by lymph from the vaccine vessile. There could be no doubt, however, that vaccination might call amere count on no stouce, nowwer, nat vaccination might call previously latent disease into activity; and in this way it might previously latent disease into activity; and in this way it might let had seen three cases in which syphilis was supposed to have been communicated by weedmantso; and he thought industation of the axillary glands unusual, although possibly to be accounted for by the part of the arm on which the vaccination had been

performed.

Mr. Dr. Meric joined with the last speaker in congratulating
Mr. Hutchinson upon his courage in bringing forward the facts;
and thought that the paper would change the opinions of many and thought that the paper would change the opinions of many persons who had previously been incredulous about the con-vyance of apphilis by vaccination. He thought, however, it would have been better to have delayed the publication for a few weeks, in order to see whether any secondary symptoms would have appeared in the vaccinated persons. He did not believe that it would be safe to use the vaccine lymph yielded by a sphillitie subject, because the vaccine lymph was formed from the blood, and might therefore possibly become a channel for the communication of disease. At the same time, it must

be remembered that the sores formed by vaccination sometimes assumed various unusual appearances; and it should not be hastily concluded that these were due to syphilis. There could, notwithstanding, be no doubt that syphilis might be communicated by vaccination, and such an occurrence had taken place in Brittany. The facts had been investigated by a commission of the Paris Academy of Medicine, and had been placed beyond

all question.

Mr. BRUDENELL CARTER said that the canon of Medical orthodoxy, as regards vaccination, had hitherto been founded upon three cardinal points of belief. These were, that the relation between the vaccinifer and the vaccinated was the only human relation, that the transference of vaccine lymph was the only mode of human intercommunication, and that was the only make the only human secretically which syphilis could not be conveyed. For his own part, eccouraged by the well-known maxim of philosophy, that the multitude of people who believe in a thing do not in the less add to its credibility, he had long had the hardhood to dissent from all three propositions, and he thought that the first two, at least, had now been shown to be utterly untenable. Mr. Hntchinson still gave the weight of his authority to the last; but in doing so he surely rested a very wide generalisation upon a slender basis of fact. It was difficult to discover ay reason for the distinction so much insisted upon between blod and lymph; and it was the practice of many vaccinators aft? having taken the first yield of a vesicle, to wait for a few minutes until another drop exuded, a drop that could be nothing but liquor sanguinis, containing all the essential constituents of the blood, and also carrying the peculiar motifi products of the vesicle. Moreover, a few years ago, when he was in the habit of vaccinating, and occasionally sent for tabe of lymph to the Privy Council, the liquid supplied to him was always turbid, often inert, and, on one occasion, he believed. had been mingled with saliva and buccal mucus. He attributed the ordinary turbidity to over-filling of the tubes. To his mind, considering the wide diffusion of syphilis, its occasional invac-cination was a matter that could only be prevented by a full recognition of the possibility of the occurrence, and by the most stringent precautions with regard to it. The chorus of "Je n'ai jamais rn" was alone almost sufficient to prove that those who joined in it had not turned their eyes in the right direction; and was pernicious as a cause of carclessness in the selection of vaccinifers. The public would not receive the full were candidly admitted, dispassionately studied, and carefully guarded against.

Dr. DEYSDALE said that he had once vaccinated a syphilitic child, and had given strict injunctions that no lymph should be taken from it. He afterwards heard that it had been taken to a public institution, where his caution, although mentioned was disregarded, and that several others were vaccinated from it.

Mr. Strow said that the statements made with regard to be lymph supplied by the Privy Council were such as could set be substitutiated. In the course of a speech of more than half an hour's duration he repeated the already published history of his circulars of inquiry about the revaccination of syphilis; and threw out the suggestion that the products of inflammation might be sources of danger, and that hence the use of tenth-day lymph, not infrequent upon the Continut, might be a reason why there had been more evidence of the communication of syphilis abroad than in England. He saked the Society to strengthen the hands of Government by expressing an opinion as to the precautions that should be observed in vaccination.

The Parsident said that the hour for the conclusion of the

ting had arrived, upon which Mr. HENRY LEE moved the adjournment of the debate to

the next meeting. Mr. BRUDENELL CARTER seconded the motion, and entered into a detailed history of the circumstances on which his statement of the quality of the lymph supplied by the Prov Council was founded.

Mr. Smeos said that he had not meant to question the state-ment with regard to any particular instance, but only if

regarded as a general one.

The motion for adjournment was then put and carried.

HEROINE.-Miss Esther Johnston, of Jersey, who followed the German army throughout the late campaign as indy nurse, and at its termination devoted herself to attend on patients suffering from small-pox, has unhappily fallen a victim to that disease.

MEDICAL NEWS.

University of Glasgow.—The following is a list of names of those gentlemen who graduated at this University during last session :-

Armour, Andrew, M.B., Scotland, Bell, Robe t, M.B., England, Bereford, Robert de la Foer, Ireland, Borthwick, C. J., M. E., Scotland, Buchanan, Alex. M., M.A., M.B., Scotland, Buchanan, Airx. B., m.A., a.A., secoland. Cameron, Evan, M.B., Scotland. Chaimers, John, M.B., Scotland. Coats, Joseph, M.B., Scotland. Coats, Joseph, M.B., Scotland. Fracer, Donaid, M.B., Scotland. Fracer, Donaid, M.B., Scotland. Gibb, James, M.B., Canada. Haydon, W.M. R., M.B., England.

Bachelors of Medi Biocheer of Melicia Altman, John, Scotland. Anderson, James W., ditto. Reverue, James, England. Herwin, James, England. Cunningham, John, ditto. Dovy, James C., America. Forbes, Robert T., Scotland. Herderson, Thomas B, ditto. Holmen, John, ditto. Levis, Willam, ditto. Mancor, Alexander F., Treland. Miller, John N., Scotland. Miller, John N., Scotland. Miller, John N., Scotland. Miller, John J., Hogh, ditto.

Alian, James, Scotland, Craig, Archibald, ditto. Douglas, John C., ditto. Gleadinning, James, ditto. Lindsay, Alexander, ditto. Lambie, James, ditto. M'Cosh, Robert N., ditto.

Mediciat.

Hutchison, George, M. B., Scotland, Jack, John, M. B., Scotland, Jack, John, M. B., Scotland, Logan, Architald, M. B., Scotland, Logan, Levind, M. B., Scotland, Moore, James T., M. B., Ireland, Hitchies, Andrew, M. B., Scotland, Boas, John Harris, Scotland, Boas, John Harris, Scotland, Boas, John Harris, Scotland, Stubertland, Walter, M. B., Scotland, Stubertland, Walter, M. B., Scotland, Walter, M. S., Storper, S., Storper, S., Storper, S., Storper, S., Storper, S., Storper, S., Scotland, Jack, S., Scotland, Jack, S., Scotland, Jack, S., Scotland, M. S., Scotland, J. S. Materi in Surpery,
WClooky, James P., ditto.
WClongly, James P., ditto.
WFadyen, Charlen, Seoltand.
WKellar, Chas. K., dustralia.
MKellar, Chas. K., dustralia.
WLean, William F., ditto.
Read, James W., ditto.
Senalial, Heary, ditto.
Senalial, Heary, ditto.
Stuart, John, ditto.
Stuart, John, ditto.
Thomson, Group, ditto.
Wilson, John, ditto.
Wilson, John, ditto.
Wilson, John, ditto. d Masters in Surgery.

M'Lelland, Alex., Scotland M'Naul, Hugh H., Ireland. M'Pherson, Chas., Scotland Sneddon, William, ditto. Watt, James B., ditto. Weir, James B., ditto.

in Surgery Masters in Surgery.
Bigger, David, M.D., Scotland.
Robertson, John L., M.D., Scotland.

The following gentlemen were named as entitled to honours to special commendation, and to commendation, on account of uguished merit at the various examinations for the degree of M.D., M.B., and C.M. :-

M.B., and U.M.;

I. Horocras.
Aliman, John, M.B., C.M., Scotland.
Willie, David, M.B., C.M., Scotland.
Willie, David, M.B., C.M., Scotland.
WCosh, Robert M. M.A., M.B., Scotland.
Roy, Jopand Clumder, M.D., Laide,
T. H.I., Charles, R. M., Scotland.
Roy, Jopand Clumder, M.D., Laide,
Farbes, Robert, M. B., C.M., Scotland.
WKellar, Charles K., M., C.M., New South Wales.
Millier, John N., M.B., C.M., Scotland.

ROYAL COLLEGE OF PHYSICIANS OF LONDON.—At the ordinary quarterly meeting of the College, on Thursday, the 27th ult., the following gentlemen, having passed the required examinations, were admitted as Members :-

Dickinson, Edward Harriman, M.A. Oxon., M.B. and M.C. Edin., 8t. George's Hospital.

Potherly, Renry Issac, M.D. Lond., 3, Finsbury-square, E.C. Winslow, Lyttleton Stewart, L.L.B. and M.B. Camb., Sussex House, Hammersmith, M.

And the following candidate, having conformed to the by-laws and regulations, and passed the required examinations, was granted licence to practise Physic, including therein the practice of Medicine, Surgery, and Midwifery:—

Reston, Henry, M.R.C.S., 6, Dorset-street, Stretford, Manchester.

ROYAL COLLEGE OF SURGEONS OF ENGLAND .- The following gentlemen having undergone the necessary examina-tions for the diploma, were admitted Members of the College at a meeting of the Court of Examiners on the 2nd inst., viz. :— Bentler, Arthu James McDonald, Eliburgh, of the Elinburgh School. Budd, William Alexander, Excer, of King's College. Frankerd, Orlando Recres, M.E. Edin, Langport, Somerset, of St. Mary's Hospital.

Hospital.
Frean, Richard, L. S. A., of the Middlesex Hospital.
Giles, Iveter Bircome, Stanuton-on-Wys, of the University College.
Giles, Iveter Bircome, Stanuton-on-Wys, of the University.
Giles, Iveter Bircome, Stanuton-on-Wys, of the University.
Kar, William Towloon, Middleshorough, of the Newstafe School.
Lang, John Alfred Thomas, L.S. A., Stoke Newington, of the London
Hospital.
Hervolt, Edward Villiam, Greve-park, Chisrwick, of St. Mary's Hospital.

Parsons, Joshua Frederick, L.S.A., Frome, Somerset, of St. Mary's Hospital. **Months vosum Fresetics, is.S.A. friege-series of St. Mary's Mospila. Months of the Case Lab. A. Bridgewater of King's College-Percival, George Henry, I.S.A., Northampton, of Guy's Hospital. Pitts, Henry Mar Walton, Lancashire, if Labraryo Behood. Thomas, George Danford Phillips, Yeord, Sonnerset, of St. Mary's Hospital. Thompson, Williams, Todonochen, of the University Odlege-Williams, Morgan, Cardiaf, of the Manchester School. Williams, Horry, I.S.A., Ulousecter, of St. Thomas's Morpital. Pive candidates having failed to acquire ammedieue to their statistication of the Greek School. The next primary cannination will take place on the 6th inst.

APOTHECARIES' HALL.—The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday, April 27, 1871 :-

1871:—
Baumgartner, John Richard, Gorleston, Norfolk, Bernard, David Edward, Bristol.
Bernard, David Edward, Bristol.
Berrougha, John Edward Beckland, Lee, Kent.
Hood, Denald W. Charles, Guy's Hospital.
Hood, Denald W. Charles, Guy's Hospital.
Fedrous, Johns Prederick, Prone, Somerset.
Percival, George Heary, Northampton.
Stochard, James, Hull.
Tudge, James McDongall, Hereford.
Wittmarek, Don Levi's hippedalm.

As an Assistant in Compounding and Dispensing Medicines: Saunders, Charles Price, Haverfordwest.

At the Preliminary Examination in Arts held at the Hall of the Society on April 28 and 29, 1871, eighty-four candidates presented themselves, of whom twenty-six were rejected, and the following fitty-eight passed and received certificates of Preficiency in General Education—vix, in the First-class, in order of merit :-

Pedley, Frederick Newland (first). Pope, Frederick Montague (first). Kerans, Percy George (third). Sellers, Richard Burdett (third). In the Second-class-

Barlow, T. C. Bearpark, G. E. Boodle, G. A. Braithwaite, S. Burress, W. M. Braithwaite, S.
Burgess, W. M.
Clowes, J. S.
Colborne, W. W.
Crane, A. Wyatt.
Crocker, H. L.
Davis, F. Howard.
Davis, George.
De Korte, B. J.
Ellis, J. Watsen.
Gamble, H. W. B.
Gravely, J. G.
Hawkins, H. awkins, H. Higgs, Augustus W. Hitchens, J. J. Higgs, Augustus W.
Hitchens, J. J.
Hiddernews, H. O.
Howard, Robert,
Hulme, Wynne P.
Karop, George Charles,
McDonogh, E. F.
Marsh, Joseph H.
Mayne, Walter F.
Newland, C. F.
Newton, E. A. Parke, J. L.
Potter, Henry P.
Pratt, Walter.
Bawlings, Alfred.
Richards, Thomas.
Rohrs, Godfrey Charles.
Romano, F. W.
Sagna, Robert.
Batchell, W.
Smith, Ferdinand Claren.
Smith, Ferdinand Claren.
Snook, W. Ernest.
Standly, Thomas. Snook, W. Ernest.
Standly, Thomas.
Strange, Bailey.
Stillwell, Alfred.
Sugden, D'Arcy.
Stutton, Thomas S.
Sworder, Horace.
Thomas, Arthur.
Thompson, Harold. Thomas, Arthur.
Thompson, Harold.
Vickerstaff, William Henry.
Waldo, Frederick Joseph.
Ward, George James.
Warner, James.
Weckes, Francis Henry.
Wright, Henry.

APPOINTMENTS. • • The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

Baroos, G. C., L.S.A.—Resident Accoucheur to King's College Hospital.

nuico, u. C., l.s.A.—Resident Accoucheru to King's College Hospital.
HABILTON, R. M.D. Cantab, M.R.C.S.E.—Honorary Physician to the
Westiminster General Dispensary.
Hors, William, M.D., M. R. H. Dispensary.
Hors, William, M.D., M. R. H. Dispensary.
Loro, J., L. R. C.F. L., M. R. C.S. E.—Resident Medical Officer to the Swanses Hospital.

MILLSOY, G., M.R.C.S.E., L.R.C.P.L.—Assistant Medical Officer to the Female Department, Middlesex Lunatic Asylum, Colney Hatch.

Parsons, F. J. C., M.R.C.S., L.R.C.P. Lond., L.S.A.—House-Physician to King's College Hospital. ROCHE, E. B., M. R.C.S.—House-Surgeon to King's College Hospital.

MILITARY APPOINTMENTS.

BOYAL ANTILERY.—BAILARY AFFUNITHENTO.

BOYAL ANTILERY.—BAILARY AFFUNITHENTO.

BOYAL ANTILERY.—CAIR Assistant-Surgroun Hunter. Alexander Colonic Crows, to be Assistant-Surgroun. British, and James Dohande Crows, to be Assistant-Surgroun. British Chargeon Alexander Clark Ross, M. D., to be Surgrou, rice Augustus Morphere, who exchanges; Safi Assistant-Surgrounder Colonic Co

MINICAL BLAZIANES: -Suppose Aspension Mappers, 1901, 1; Forl, 65; be Staff-Strongen, new Alexander Clark Bose, All, 1; bids included, Staff Assistant-Surpess (George Palatiano, M.D., to be Staff Surpess, Staff Assistant-Surpess (George Palatiano, M.D., to be Staff Surpess, Staff Assistant-Surpess January (George Palatiano, M.D., to be Staff Surpess, Francis Surpes), from 1st passive plant half-palating the staff assistant-Surpess (Lickeford, M.B., appointed to the text Forl; Staff Assistant-Surpess (Dept. 1998), and previous plant of the staff palating plant palating plant plant plant palating plant plant

BIRTHS

Ilvassa.-On May 2, at Ulverston, the wife of H. Barber, M.D., of a

Gaugnerer.

COLENAS.—On April 19, at Lutterworth, Leicestershire, C. S. (nie Martin),
wife of Dr. Coleman, late of Peru, of a son.
Doyation—On April 23, at at 129, Blackfurar-road, S.E., the wife of
Thomas Malcolmson Donahoo, Surgeon, of a daughter.

Simplex.—On April 27, at 39, Canonbury-park North, the wife of Archibald Simpson, M.D., of a daughter.

TUBLE.—On April 30, at Cromwell Villa, Finehley-road, N.W., the wife of James Turle, M.D., of a daughter. WHIPPLE.-On April 18, at Areachon, the wife of Dr. J. Whipple, of a

daughter. Williams.—On May 1, at Uffculme, Devon, the wife of William Joseph Williams, M.D., of a daughter.

MARRIAGES

MARRIAGES,

ANDERSON—CLUTSAN.—On April 11, at the Cathedral, Nassau, Bahamas,
William John Anderson, of Lingonin-sinn, barrister-at-law, second son
of the Hon. G. C. Anderson, Edg., Altorney-Guerral, — Marr Dora
Somerville, youngest daughter of the late S. J. Cultsann, M.D.

Barker, the second surviving son of the late William D. Barker, M.D., of Weymouth, Dorset, to Elizabeth, only daughter of the late John Pareell, Esq., of Waitham Abbey, Essex.

neu, Leu, of Waltam Abbey, Essex.

Baraactorum—Chorr.—On April 37, at Christ Church, Clapham, Dr.

B. W. Sutton Barraclough, youngest son of George Barraclough, Esq.,
of Streatham-hill, to Elisabeth Hannah, only daughter of J. Croft,
solicitor, South Lambeth,

Chory-Musches, Solidario, -On April 26, at 8t. Peter's Church, Forest-side, Wallamatow, George Crafter Croft, of Eagleigh, Essex, third son of Audional Croft, F.R.C.S., to Mary Fowler, youngest adaptive Audional Croft, F.R.C.S., to Mary Fowler, youngest adaptive Audional Croft, F.R.C.S., and M.R.C.S., of 46, Watting-street, and Mill Cottage, Wallamatow.

serest, and Mill Cottage, Walthamstow,
Dickson-Thorston.—At All Soule; Langham-place, Dr. J. Thompson,
Dickson, of 59, Queen Anne-street, Cavendish-square, W., to Hemricta,
Elizabeth, youngest daughter of the late William Thompson, M. D., of
Fox Rock Lodge, county Dublin, formerly Inspector-General of Hospitals, Madrae.

FARTHING—JACKSON.—On April 27, at the parish church of Allhallows, Tottenham, George Lax Farthing, M.A., curate of the parish, to Anna Elizabeth (Minnie), elder daughter of George Henry Jackson, M.D., of Lower Tottenham, N.

Garren Johannam, ppdf 18, at Rt. Matther's Church, Oakley-square,
N. W., Allerander, jumgeet on of the late John Jasept Critper, Leq.,
of Herfurd, to Catherine Mary, younged daughter of the late William
Smilles, Surgeon, of Shipton-activary. Some John Marylebone, Charles
Crid Bicks, M.D. Agril 20, at St. Thomas's, Marylebone, Charles
Crid Bicks, M.D. Agril 20, at St. Thomas's, Marylebone, Charles
Edg., of the Middle Temple.

JONES—JAY.—On April 27, at St. Paul's, Tupsley, Herefordshire, Dr. Leslie Hudson Jones, fourth son of the late W. T. Jones, M.D., of Cork, to Laura Katherine Insubella, fourth daughter of James Jay, Esq., of Littley Court, Horvfordshire.

Coans-Hour., On April 27, at Christ Church, Eccleston, Richard, eldest son of the late R. T. Morria, Surgeon, Upholland, to Sarah Ellen, youngest daughter of the late W. Holt, Esq., Bispham Hall, near Wigan.

ONTOW - PRENTICE - On April 21, at 8t. Stephen's, Bow, Fletcher Norton, of the Inland Revenue Department and Tomlin's grove, Bow, to Catherine Sarah, only daughter of Alfred Prentice, M. D., Bow. Causerine Saran, omy daughter of Alfred Prentice, M.D., Bow. RowLarss—North Brixton, April 29, at Christ Church, North Brixton, James David, eldest son of James Rowlanda, F.R.C.S., of Carmarthen, to Elizabeth, eldest daughter of Isaac Horton, of Clapham-rise, London, and Yetnal, Carmarthenshire.

Scott.—Osborns.—On April 27, at St. George's, Hanover-square, William Scott, Esq., 4, Park-quadrant, Glasgow, to Ross, second daughter of J. F. Osborne, M.R.C.P., Osborne House, Romsey, Hampshire.

WHOATE—HOOS.—On MAY 2, after banns, at 81. Leonard's Church, Streatham-hill, Robert Wingate, M. R.C.S. and L.S. A., of Leicuster, and of the late W. B. Wingate, Esq., of Rarely, Lincolnshire, to Bertha, eldest daughter of Thomas Higgs, Esq., Streatham-hill, Surrey.

erleet daughter of Thomas Higgs, Esq., Strestham-hill, Surrey.
WOOTKLES-LUOTE.—On April 29, at 28, Jude's, Mildmay-park, W.
Bathurst Woodman, M.D., to Elizabeth Mary, only surriving child of
the late T. L. Llory, Esq., of Tranmere, Cheshire, and daughter-in-law
of the late Rev. E. F. Woodman, M.A., Ll.D., rector of Walton West
and Talbeny, J.P. in the county of Pembroke.

Woons—Deck.—On April 27, at Holy Trinity Church, Southport, Dr. G. A. Woods, eldest son of Geo. Woods, Eq., Surgeon, Southport, to Lilias, youngest daughter of the late Robt. Duck, Eq., of Norwood, Alderley-cige, Cheshre.

DEATHS.

Binch, Dr. Buron, M.D., late Madras Medical Service, at Clifton, on April 28.

DEARK, MAY, the dearly-beloved wife of Thomas Drake, Esq., and daughter of the late William Elliot, M.D., at Stratford, Essex, on April 30, aged 31.

Evans, Elleabeth, relict of the Rev. Thomas Evans, D.D., and second daughter of the into Thomas Best Pitt, M.D., Brighton, on April 29, at her residence in the College-green, Gloucesten

KNOWLES, ALICE JANE, the youngest daugater of Eduated Valdon Knowles, at Farnham, Surrey, on April 29, aged 23. MOORE, ELIZABETH MARY, wife of John Percy Moore, Esq., M.B.C.S., a: Hitchin, on April 29, aged 54.

MURRAT, KATRRING ANDIE, daughter of John Murray, M.D., at Wishham, Hanta, on April 28.

RYDER, LAURA JONES, reliet of T. J. Ryder, M.R C.S., late of Greenwich on April 30.

STEWART, H. C., M.R.C.S., at Hong-Kong, on board H.M.S. Melville, to February 6. SWALES, MART, the wife of Edward Swales, Surgeon, at Sheemes, or April 25, aged 49.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession.

CHELTERHAM GENERAL HOSFITAL AED DISTENSARY.—Resident Surgest to the Branch Dispensary. Candidates must have both Medical and Surgical qualifications, and be registered. Applications and testimosish to Mr. D. Hartley, on or before May 20.

ω mr. M. Martefy, on or Octore May 20.
Eart Russo Lovaric Astruc.—Medical Superintendent; must be chyqualified and registered. Applications and testimonials, together with copy of the last Report of the Commissioners in Lunary as to the state that Asylum with which the applicant is now connected, to Mr. F. Seon, Deverley, Torkainer, on or before June.

HUDDERSTIELO INVIRMANY.—Assistant House-Surgeon; must be a Medical student of not loss than three years' standing. Applications and test-monials to Mr. E. J. Hardy Booth, House-Surgeon, on or before May 15. LITTLEMORE PAUPER LUNATIC ANYLUM.—Resident Assistant Medical Officer; must be duly qualified and registered. Applications and test-monitals to J. M. Davenport, Eq., County Hall, Oxford, on or before

may io. Borst I termany Scinon, or Middlerine. The Demonstrate Livear-order and Middlerine and Hardberg is now woman. Application to Mr. R. Harrison, Registrar, on or before May 10. Londor Feven Houritat,—Amstant-Physician; must be For M.R.C.P. Applications and testimonials to the Secretary, on or before May Election on the 12th.

Execution on the 12th.

NARMERTH UNION.—Medical Officer for the Third District. Candidate
must have the qualifications prescribed by the General Orders of the
Poor-law Beard, and understand the Weish language. Applications and
testimonical to Mr. John Thomas, Clerk, Narberth, on or before due if Election on the 19th.

MORTHLEAGUE UNION.—Medical Officer for the district comprising the NorthLeafue Union.—Medical Officer for the district comprising the parishes of Aldsworth, Bibury, and Coln St. Aldswyns. Candidates much have the qualifications prescribed by the General Virtues of the Foreit Board. Applications and testimonials to Mr. H. Silles, Cirk tells Guardians, on or before May 24. The duties will commence on January Characteristics of the Control RIPON DISPRISARY. - House-Surgeon and Resident Dispenser. Application and testimonials to the Honorary Secretary.

and testimonials to the Honorary Secretary.

BOYAL APILY OF SY. Ax's SOCIETY, STREATHAS-HILL, SURIT-Modified Officer; must have both Medical and Surgical qualifications of the Company of

testimonials to Mr. C. Wellborne, I., Dake-street, London-ways-before May 9. Election on the 11th tell Hoppital is to be becaused by the control of the street of the stre

a Fellow or Member of the Royal College of Physicians. **operation and sections also formulai Color, Reg., House Genviror and Secretary.

SOUTH STATEMENT AND THE STATEMENT AND THE STATEMENT AND THE SOUTH STATEMENT AND THE STATEM

POOR-LAW MEDICAL SERVICE.

*.º The area of each district is stated in acres. The population is computed according to the commun of 1861.

**RESIGNATIONS.*

**RESIGNA

Micaste Cuion.—The Herford District is reason; area, 2000: 1907.

Thingse Union.—The Seventh District is reason; area, 1,3/10; 1905.

Thingse Union.—The Seventh District is reason; area, 1,3/10; 1905.

The control of the Control of

District. Crisia—George Jones, L.R.C.F. Edin, L.F.P.& Gluss, is the Bleist. District.

S. Phones Brisis.—John Hall, M.R.C.S.E., I.S.A., to the Third District. Sosph Mitchell, L.R.C.P. Edin, L.R.C.S. Edin, M.R.C.S.E., L.S.A., to the Fourth District. Sale/hebry Union.—Edwin Wylce, M.R.C.S. Edin, M.R.C.S. Edin, A. & the Pontmell District.

THE Pharmacoutical Society is to give a grand conversazione at the South Kensington Museum on the evening of May 17.

INSPECTOR-GENERAL LAWSON will read a paper at the Epidemiological Society on the 10th inst.; subject..." Cholera in Ships at Sea." The paper is one of very great interest as a contribution to scientific epidemiology.

MR. GEORGE MOORE, who has gained the Scholarship for the first year at King's College Hospital, and Mr. Charles Firth, who has carried off the same honour for the second year at St. Bartholomew's, were both educated at King Edward VI. School. Norwich, under the Rev. Dr. Jessonp.

School, Norwich, under the Rev. Dr. Jessopp.
MR. G. GODSON has resigned the office of Surgeon-Accouchemt to the City of London Lying-in Hospital, City-road.
MR. T. COLE was last week appointed Vaccination
Inspector for the Holborn and Clerkewell divisions.

It is officially stated that in Scotland last year not above 150 persons died from small-pox, and this is ascribed to the efficient manner in which the Vaccination Act is carried out.

the emercial mainer in which the vaccination Act is carried out.

Mr. HART GIMLETT, a Staff Surgeon of 1868, has been appointed Surgeon to her Majesty's Dockyard at Sheerness.

THE Dreadmought is, we believe, ready for the reception of small-pox patients. Provision has been made for 200 beds.

of small-pox patients. Frovision has been made for 200 beds. A GOVERNMENT INSPECTOR has been sent down to Littlehampton in consequence of the drainage of the town being in a very unsatisfactory state, and the local board having declined to make the necessary improvements.

DR. GUY has reported to the Hackney Board of Works that in his opinion the Small-pox Convalescent Hospital at Clapton could not justly be looked upon as a nuisance to the inhabitants of the neighbourhood.

THE St. Paneras Vestry have at last given definite instructions to the Works Committee to erect a temporary Hospital for small-pox for the parish.

A MOVEMENT has been commenced in Monmouthshire with the view of inducing the various coroners to discontinue holding inquests in public-houses wherever practicable.

TITE Southhood News (Invercargell) of February last reports the outboard of searlet fever, a disease hitheron unknown in that part of New Zealand. The infection was believed to have been brought by a female from Dinachin, who was a passenger by the Robert Headerson. Other passengers by the same skip were in the province, but prompt measures were adopted to stop the spread of the disease, and it is hoped that the mallady may not become acclimatised.

VACCINATION.—During the past week, says the Mercestershire Chronice, only five cases were presented for vaccination at the local stations. The births in Worcester average about forty per week; it is evident, therefore, that purents pay very little attention to the orders of the Vaccination Act. The question as to the efficacy of Jenner's discovery has—says Gatigoness —been for months an incrhaustible was select the following from the Journal des Consistences Médicales:—"In Jannary, 1870, the Rothschild Hospital, in the Rue de Firpus, received seventy-two cases of small-pox; none of these patients had ever been revaccinated. On the other hand, from that time all those who entered the same Hospital, labouring under other diseases, were complisarily have since contracted the small-pox."

ROYAL INSTITUTION OF GREAT BRITAIN.—At the annual meeting, Monday, May 1, 1871, Sir Henry Holland, Bart, M.D., D.C.L., F.R.S., President, in the chair, the Annual Report of the Committee of Visitors for the Vaes 1870 in 1870. Sixty-three lectures and anineteen evening discourses were delivered during the year 1870. The books and pamphlets were delivered during the year 1870. The books and pamphlets presented in 1870 amounted to 118 rolumes, making, with those purchased by the managers, a total of 307 rolumes added to the library in the year, exclusive of periodicals. The following gentlemen were unanimously elected as officers for the ensuing year:—President: Sir Henry Holland, Bart., M.D., D.C.L., F.R.S. Treasurer: William Spottiswoode, Eng., M.A., F.R.S. Secretary: Henry Bence Jones, M.A., D.D., D.C.L., F.R.S. Manager: John J. Bigaby, M.D., F.R.S., F.G.S.; George Buck J. E. M. F.R.C.S., F.R.S., F.R.S., F.R.S., F.R.S., S. F.R.S., S

the Lord Lindsay; George Macilwain, Esq., F.R.C.S.; the Duke of Northumberland, D.C.L.; William Pole, Esq., M.A., F.R.S.; Sir. W. Frederick Pollock, Bart, M.A.; Robert, P. Rongell, Esq., M.A., Q.C.; Col. Philip James Yorke, F.R.S.; Fisters: John R. Andrews, Esq.; William Ernst Browning, Esq.; John Charles Burgoyne, Esq.; Rev. Charles J. Fynes Clinton, M.A.; Elward Frankland, Esq., D.C.L., F.R.S.; Thomas Williams Helps, Esq., M.A.; James Heywood, Esq., F.R.S.; Thomas Lee, Esq.; Robert Pilkington Linton, Esq., F.R.S.; Thomas Lee, Esq.; Robert Pilkington Linton, Esq., F.R.C.S.; Col. William Kirkman Loyd; James Dyce Nicol, Esq., M.P.; Rev. Cyril W. Page, M.A.; Arthur John Edward Russell, Esq., M.P.; Basil Woodd Smith, Esq.; Michael Wills, Esq.

A Bitt. brought in by Mr. Stansfeld and Mr. Hibbert to amend the Metropoitian Foor Act of 1867, proposes that all the provisions of that Act as amended by the subsequent Act of 1869, which relate to the procuring of any buildings for the purpose of an asylum under that Act, shall apply to any ship, resuch, but, tent, or other temperary erection which may be the purpose of an asylum and the purpose of the purposes of an asylum.

THE RISH COLLEGE—The election of examiners in the Royal College of Surgeons in Irsland was held, as provided by the charter, on the first Threeday in May. There was no contest against any of the outgoing examiners, and the following gentlemen were consequently re-elected:—Dr. Fleming, Consulting-Surgeon to Stevener's Hospital; Mr. Shapleton, Consulting-Surgeon to Stevener's Hospital; Mr. Shapleton, Dublin Hospital; Dr. Tuffiell, Surgeon to the City of bublin Hospital; Dr. O'Grady, Surgeon to Mercer's Hospital; Dr. Stokes, and Dr. John Barker. The method of election is peculiar. On the day specified the Councillors are required to attend, and, in the presence of the Fellows, seven of them are chosen by lot, and sworm under a most stringent oath to elect together and conference of the first period of the property of th

THE NEW BATHING ESTABLISHMENT, SPA .- Spa, 8 small town of 5000 inhabitants, fourteen hours by rail and steamer from London, three honrs and a half by rail from Brussels, is charmingly situated in a mountainous district. It Orusses, is charmingly stuated in a mountainous universe. It is pretty well known to Englishmen, being much frequested by them, especially during the races. It boasts of some purely English institutions, including the church. It is considered a very salubrious place by the inhabitants, where epidemics are rare and the number of the poor is small. Therefore no Hospitals are found, the only institution of the kind being the Hospite delt. Charles, where occasionally about half adozenaged or invalid poor may be found. There is a bureau de bienfaisance, where ont-patients are prescribed for, and which also attends to the visiting of the poor. The Spa water belongs to the chalybeate springs, far more agreeable and digestible than any in England: it is earthy, alkaline, but contains less carbonic acid than Schwalbach, Bruckenau, and Pyrmont. There is grass of carbonate of iron in 3xvj. of the water. It is used especially in general debility and various nervous affections originated by anemia. It is particularly recommended topeople in advanced life, and some have assured the writer that they never left the place without being considerably invigorated. The new bathing establishment, only opened about a year ago, is very fine, was built by an engineer from Paris, and contains the recent and complete bathing fittings and hydrotherapentic apparatus. It lies on elevated ground surrounded by gardens, and is a rectangular building with a small courtyard in the centre, two floors high, over a high basement, and has two fine censor, two noors nign, over a nign basement, and has two fine halls in front and back respectfully. They have floors of stone and marble, marble facings, and columns painted white in imitation of marble. Most of the bath-rooms are on the groundfloor, gentlemen's to the right, ladies' to the left; all open into noor, gentlemen's to the right, hains to the left; all open into common corridors which can be warmed by hot pipes. The rooms are 8 feet by 10, and 16 feet high, have oil-painted walls and French windows (croisses). There are zinc and marble baths; the furniture is of more elegance in some of the rooms than the rest. In the Souterrain a fine plunge-bath is found, 8 feet by 12, various douches, elegant vapour- and sitz-baths. Four water tanks are under the roof, two for the male side and two for the female, the two hot ones being heated in the usual manner by hot-pipes. The recently discovered springs of Nirisch, which lie at some distance, are conducted into these tanks; they are strongly impregnated with iron. On the first floor there are offices, sitting, and reading rooms. Every part

of the house can be warmed by hot sir, and the attendance is facilitated by telegraphing. A list of the charges may be obtained by application to the "direction des bains," or the Medical superintendent, who lives in the house. There are electrical apparatuses used under his direction. The working classes are supplied with tickets at reduced prices, as is customary in Continental watering-places.

ARREST OF VARIOLA BY QUININE.-In a note addressed by ex-Professor Coze, of Strasburg, to Dr. Lacour, of Lyons, he makes known a mode of treatment which he has Lyons, as makes known a moure or revasiness. When as the found very efficacious during the present epidemic, in cutting short variola. As soon as an individual experiences the pre-cursory symptoms of variola (as headache, soreness of the limbs, lumbar or corvical pains), he should be sent to bed, and in the contraction of the contract quinine should be given him every half-hour, until three or our doses, of twenty-five centigrammes each, have been taken. four doses, of twenty-five centigrammes each, have ocen taken. Next day, if the symptoms at all continue, the same procedure should be followed; and almost always the variols will be found to have abated, or if the eruption does appear it is found to have abated, or if the eruption does appear it is provided by the symptom of the process of the pro sent epidemic), "opposing the expansion of the cerebral matter, and disposing it to concentration." He had already found it of astonishing stility in the headaches of students consequent on their application prior to the examinations; also, it is very efficacious at the commencement of ramollissement of the brain. The quinine acts as a poisonous agent on the "variolous vibriones" which are developed in the disease. When the which are developed in the disease. When the disease has become developed, these vibriones, in their search for oxygen, especially in the nasal fosse and entrance of the larynx, give rise to fatal asphyxia. Gargling these parts with quinine solutions is the best means of treatment.—Press Buley. April 16.

NOTES, QUERIES, AND REPLIES.

Be that questioneth much shall learn much .- Bacon.

The following are in type, and will be published as soon as possible:-" On the Routine Use of the Ophthalmoscope in cases of Cerebral Disease, by Dr. J. Hughlings-Jackson; "Cataract and its Treatment by the Semilunar Corneal Incision," by Mr. Jabez Hogg; " A Case of Myelitis," by Mr. R. W. Tibbits; "The Mortality from Small-pox in regard to Sex and Age," by Mr. C. A. Fox; Reviews of "The Geographical Distribution of Heart Disease and Dropsy in England and Wales," by Alfred Haviland, M.R.C.S.; "Notes and Recollections of an Ambulance Sur-geon," by William MacCormac, M.A.; and "Wünderlich's Medical Thermometry '

Sensz.—(1) Try Buckle's "cinchona fluida." Add, if you please, fifteen minims of aromatic sulphuric acid to each dose. (2) Add three minims of liq. arsenialis to each dose of quinine.

Inquirer.—Yes, but his name does not appear in the Medical Register of this year. In this particular instance we would rather not give more information than we need. Your fee has been given to the British Medical Benevolent Fund.

R. X. inquires what we know of a modern cure for cancer, said to be practised by a member of our Profession who has already invented wonderful cures for incurable maladies. We know nothing of it, and as our cures for incurable maladies. knowledge, so is our belief in it.

M.D. Dub, has done too much. The symptom is an effect of mental impressions upon a system in good health and vigour, but a little too sus-ceptible. The continuance of local and other remedies does but perpetuate Our correspondent should forget it, and it will gradually disappear, without leaving a trace behind.

MACKINNALL'S HOSPITAL VENTILATION.

TO THE EDITION OF THE MEDICAL THREE AND OZETTE.

Bin,—Would you kindly inform me of any Hospital where Mr. MacKinnell's investion for the ventilation of Hospitals, spoken so highly of in
Holmers' "System of Surgery," vol. iv, pp. 1000-1001, is used. Apologialog for troubling you, King's Lynn, May 1.

A. B.-If the complaint be well founded, he should address a remonstrance to the Dean of the School to which he belongs,

P. B. H., Woolwich .- A very interesting paper on "Idiosyncrasy" will be found in Mr. Wadd's "Comments on Corpulency." The learned author has collected a series of cases of the most remarkable kind, and enters into the subject with that originality and vivacity which distinguished If we mistake not, our correspondent will find some facts bearing upon the question in Dr. Copland's "Dictionary of Practical Medicine." T. B. C. is justified in assuming the title of "Doctor of Medicine."

R. S.—Serving in the manner of an apprentice is quite sufficient.

A Member of the Pharmaceutical Society .-- A great deal of trash has been written with respect to the publication by Mr. Ince of the prescriptions of Medical Practitioners. Those prescriptions were given to the Alumni of the Pharmaceutical Society, with the laudable view of teaching them the duties which they will be called upon to perform. It is absurd to say that a "breach of confidence" is involved in such a publication. Beesley's "Book of Prescriptions" would be liable to the same objection. Anything and everything which would fetter, or attempt to fetter, the progress of knowledge, or to shroud the conduct of Medical Practitioners in mystery, should be urgently condemned. If we are to retain our position with the public, it must be by openness and candour in all our transactions with them; the "greatest good of the greatest number" transactions with meen; one "greatest good of the greatest summer should be, and it has been, emphatically our motto—it is for the charistan to "pretend." The legitimate Practitioner should rely upon truth and reality; the greatest amongst us owed their fame to the simplicity of their treatment of disease. May it ever be so.

Нурворновіа.

HTRESCHOLL.

BILL—As there have of lade been several case of hydrophobia, and will fin.—As there have of lade been several case of hydrophobia, and will fin have been several case of hydrophobia, and will fin have been several case of hydrophobia, and will find make known, through your valuable needings, accure for tremient which my father (the late Dr. Harland, of Scarlrough) pursued with great secret in sundry rease of tetanus, and thought ingive late power been decreased in the control of the secret of the secre

lacerated.

lacerated.

Leck-juw set in, however, after the lapse of a few days, which he subLeck-juw set in, however, after the lapse of a few days, which he subthe neck (rubbed with conthaution tein tradeline) as a too and administer
applied a mutant platest the whole length of the span, and administer
mild, but oft-repeated does of chloroform (on a handscruberl), coupled
proportyses, which in one case were very frequent and obstitude.

Each patient recovered without recourse to amptation.

Leck patient recovered without recourse to amptation.

H. S. Hallard.

rompton, York, April 26.

5.—Should any Medical man have the chance and try the above cedies in a case of hydrophobia, I shall feel obliged if he will kindly let

T. C. J .- The author of the papers which are published does not profess to be faultless; the impressions which he wishes to convey are his own. If T.C.J. would kindly forward to us any particulars with respect to the late Mr. Vincent, we should be much obliged to him. In whatever form the information which he can send us shall be given, we promise him " a fair field and no favour."

M.R.C.S .- Whatever may have been the shortcomings of the Society of Apothecaries, no one acquainted with the history of the Profession would be bold enough to assert that the Society has not been the best and most consistent friend of Surgeons in general practice. When, in the early hours of the morning in August, 1815, the Apothecaries' Act was carried, it must not be forgotten that the Colleges of Physicians and Surgeons had repudiated any sympathy or interest with the great body of Medical Practitioners of that period. We are inclined to the belief that that repudiation was beneficial to the interesta not only of the Profession, but -what is of far more importance—of the public. The Society of Apo-thecaries was the first examining body that raised the education of Surgeons in general practice. The Society, in fact, was the pioneer of reform. It was the direct interest of "the Surgeons and Physicians" of that day to keep the general Practitioner as a member of an "inferior Thanks to the Society, this attempt was frustrated. When the history of our Profession is to be written, the successful efforts made by the Society of Apothecaries to give to the public a class of Practition in every way worthy of their confidence and support will be fully recognised.

DASWINSSE.

Distribute.

To the address of the stational collection of

mechanical, deministrate and disaction. The control of the control

COMMUNICATIONS have been received from -

G. J. Nurres; M. H. B. Handano; Mr. Conterre; Mesers; Harr and Dr. J. Nurres; M. H. B. Stathon; Mr. Conterre; Mesers; Harr and Dr. Jasoor; Mr. Witkon; Mr. E. B. Rocha; Mr. Jasoo Staton; Mr. Walker; Dr. B. W. Richanooy; Mr. R. W. Timeri; Mr. J. Castro; Dr. H. S. Petrolo; Dr. H. Grandon; Mr. R. W. Timeri; Mr. J. Castro; Dr. H. S. Petrolo; Dr. Hichmaton; Mr. Kena; Dr. J. Hounthoot-Jackson; J. Witkinsky; Dr. Basan; Dr. Kena; Dr. J. Hounthoot-Jackson; J. Witkinsky; Dr. Basan; Dr. Kena; Dr. J. Hounthoot-Jackson; J. Witkinsky; Dr. Basan; Dr. Kena; Dr. J. Hounthoot-Jackson; J. Witkinsky; Dr. Basan; Dr. Kena; Dr. J. Hounthoot-Jackson; J. Witkinsky; Dr. Basan; Dr. Kena; Dr. J. Hounthoot-Jackson; J. Witkinsky; Dr. Basan; Dr. Kena; Dr. J. Huonthoot-Jackson; J. Witkinsky; Dr. Basan; Dr. Kena; Dr. J. Huonthoot-Jackson; J. Witkinsky; Dr. Basan; Dr. Kena; Dr. J. Huonthoot-Jackson; J. Witkinsky; Dr. Basan; Dr. Kena; Dr. J. Witkinsky; Dr. Basan; Dr. Basan; Dr. Kena; Dr. J. Witkinsky; Dr. Basan; Dr. Basan;

BOOKS RECEIVED.

Cre-Pydd's Careful Counsel on Demostic Management—Spence's Lectures and Sungry, part in Land tr.—Beport of the Royal Edinburgh Artium can be supplied to the Land Land transparent of the Loyal Edinburgh Artium can Journal, May—The Dark Blace, May—Smith's Deatal Anatomy and Surgery—Analytical Tables for Students of Practical Chemistry, by J. Campbell Brown, B.S.E. (Lond.), F.C.S.

PERIODICALS AND NEWSPAPERS RECEIVED-

Nature—Hardwicke's Science Gosaip, May—New York Medical Gazette— Cope's Tobacco Plant, May—Medical Press and Circular—Practitioner, May—West London Observer—The Northwich and Winsford Guardian.

APPOINTMENTS FOR THE WEEK.

May 6. Saturday (this day).

Operations at St. Bartholomew's, 13 p.m.; St. Thomas's, 91 a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 91 a.m.; Royal London Ophthalmic, 11 a.m.

HOVAL INSTITUTION, 3 p.m. Joseph Norman Lockyer, F.R.S., "On the Instrumenta used in Modern Astronomy."

8. Monday.

Operations at the Metropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Peter's Hospital for Stone, 2 p.m.; Royal London Ophthalmie, 11 a.m. ROYAL INSTITUTION, 2 p.m. General Monthly Meeting.

9. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopædie, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Ophthalmie, 11 am.

ETHNOLOGICAL SOCIETY, 8 p.m. Meeting.

ROYAL MEDICAL AND CHIATRAGICAL SOCIETY, Sq. p.m. Adjourned Discussion on Mr. Hutchinson's "Cases of Vaccino-Syphilia," Dr. Elam, "On Partial Acute Idiopathic Cerebritis."

ROTAL INSTITUTION, 3 p.m. Charles Brooke, M.A., F.R.S., "On Force and Energy."

10. Wednesday.

Operations at University College Rogistal, p. m.; 8t. Mary's, 14 p. m.; Middleex, 1 p. m.; tondon, p. m.; 6t. Bartholomer's, 14 p. m.; Groden, p. m.; 6t. Bartholomer's, 14 p. m.; it Cross Northern, p. p. m.; 6t. Thomas's, 14 p. m.; Barastian, 2, 0. p. m.; King's College Hospital (by Mr. Wood), 2 p. m.; Royal London Ophthalmie, 11 a. m.

EPIDEMIOLOGICAL SOCIETY, 8 p.m. Inspector-General Lawson, "On Cholera in Ships."

SOCIETY OF ARTS, 8 p.m. Meeting.

11. Thursday.

perations at St. George's, 1 p.m.; Central Loudon Ophthalmie, 1 p.m.; Royal Orthopædic, 3 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m. ROYAL INSTITUTION, S p.m. Prof. Tyndall, LL.D., F.R.S., "On Sound."

12. Friday,

Operations at Westminster Ophthalmic, 14 p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 11 s.m.; South London Ophthalmic, 2 p.m.

Openamine, F. Jan. Mr. Cooper Forter, "On a Case of Nuc-clearing the Country of the Binacop," On a Case of Carrier-bracking pharyment Rolymon, by Binacop, "On a Case of Carrier-bracking the Contact Current," Mr. J. Warrington Haward, "On Cases of Dischasion of the Antrum of Highmore," Dr. Anatie, "On a Case of Ryphilitic Trigeninal Neuralita, with Loss of Smell and Taste, and Paralysis of the Ocular Muscles,"

POVAL INSTITUTION, 9 p.m. Col. Jervois, R.E., C.B., "On the Defence of the United Kindom."

VITAL STATISTICS OF LONDON. Week ending Saturday, April 29, 1870.

BIDTHS

Births of Boys, 1161; Girls, 1089; Total, 2250. Average of 10 corresponding weeks, 1861-70, 2134-3, DEATHS

		Males.	Females.	Total.
eaths during the week	:	745 692-3	724 654'4	1449 1346:7
verage corrected to increased population eaths of people above 90			***	1482

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1861.	Small-pox.	Meades.	Searlet Fever.	Diphtheria	Whooping-	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhona.
West	***	458125	11	2	3	1	14		2	1	5
North	***	618210	107		8	2	12	5	5	3	4
Central	***	383321	15	2	1	1	- 3	1	1		1
East	***	571159	100	2	2	1	8	2	2	4	3
South	***	773175	95	6	15	2	8	2	3	6	1
Total	***	2903989	261	12	30	7	45	10	13	14	14

METEOROLOGY.

From Observations	at	the	Gree	nicio	à C	bsert	ato	ry.
Mean height of barometer								29.663 in.
Mean temperature								80.7
Highest point of thermometer								64.9*
Lowest point of thermometer								42.7*
Mean dew-point temperature								46.2"
General direction of wind .								Variable.
Whole amount of rain in the	rec	k.						0.80 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, April 29, 1870, in the following large Towns:—

g.

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Boroughs, etc. (Municipal boundaries for all except London.)		Acre.	April	durfs Vpril 2	of A	ir (P	ahr.)	of Air (Cent.)	Fall.	
		Persons to an A	Births Registered the week ending	Deaths Registered the week ending	Highest during the Week.	west during	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3259469	41'8		1469		42.7	50-7		0.80	
Portsmouth	125464	13.2			64.2				0.25	1.32
Norwich	81787	10.8				34.2	48 6	9-22	1.01	2.57
Bristol	173364	37:0		77						***
Wolverhampton	74438	33.0	43		62.5				0.87	2-21
Birmingham	378574	48:3	242	159	61.0	41'0	49-3	9.61	0.85	
Leicester	101367	81.7	75	37	66.2	39.0	49-9		0.66	1.68
Nottingham	90480	45'3			64'3				0.88	2'51
Liverpool	520225	103.0			60'4		48'8		0.38	0.91
Manchester	879140	84'5		192	62.0	41.5	47'9		1.10	2.79
Salford	128851	23-9					48'0		0.94	3.38
Bradford	148030	22'5					48 8		0.38	0.92
Leeds	266109	12-3	399					8.84	0.82	2'41
Sheffield	255247	11-2	198				486		0.62	1.65
Hull	135195	38.0			61.0	28.0	46 5	8.02	0.20	1.22
Sunderland	103037	31 2		32				***	1	
Newcastle-on-Tyne	138293	25'5					45.6		0.28	
Edinburgh	179944	40'6	150	111			42.8		0.10	
Glasgow	477627	94 3	413				41'6		1.35	
Dublin (City, etc.)	322321	33.1	176	157	62.1	31.8	50'8	10:44	0.24	1'45
Total of 20 Towns	-	_	-		-		-		-	-

in United Kingd'm 7336961 34-4 5331:3573.66-5 28-0 48-2 9-00 0-76 1-93 At the Royal Observatory, Green wich, the mean reading of the barometer in the week was 29 66 in. The highest was 29 91 in. on Tuesday morning, and the lowest was 29 34 in. on Saturday at noon.

Note.—The population of Cities and Beroughs in 1870 is estimated on the assumption that the increase since 1801 has been set it the same annual very, since the last census it is probable that the estimate may in some instances be erroneous. The estimates for Leicester, Nottingham, Leeds, Bradford, and Hull are based upon a local enumeration of the inhabited

The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on the 3rd inst., will probably be available before the middle of the year, and will then be substituted for these estimates.



Arranged by Professor LIONEL BEALE, F.R.S. (King's College).

May be used to examine a patient in any position, in daylight, generally without attropine. Is held in the band. No dexterity required in its management, is adapted to form an Otoscope, Endoscope, Laryngescope, & Descriptive Chricials Grawarded. I six "British Methical Journal," &c. Descriptive Circular forwarded. Fids "British Medical Journal," April 2nd, 1870. Price, in case, 42s. Solé Maker, HAWKSLEY, Surgical Instrument Maker. Bleibeim-street, Bond-street, London, W. Surgical

HAWKSLEY'S PATENT CLINICAL THERMOMETER.

HER MAJESTY'S LETTERS PATENT have been granted for this hermometer, the index of which cannot be shaken into the bulb, or the HER MAJESTY'S LETTERS PATENT have been granted for this Therimoneter, the index of which cannot be abaken into the bulls, or the black divisions rubbed out. Prioss of the 6-inch patent instrument, in safety case, upon which are three engraved scales, 128. 6d; 5-inch ditto, in ivory case, 13-. 6d.; 3-inch ditto, in silver case, for waistoost, pocket (Prof. Beale's), 16s. Post tree.

Hawksley's Improved Clinical Thermometer.

Section aboving actual size, range 50 to 110.

Fide "Lance" likely, Lange Livel Brit. Med. Association. Reports, 1969.

At the last meeting of the British Medical Association, is upone read by Dr. Correlium Fox, on "Clinical Thermometers," if was announced that this instrument was far superior to that of any other maker. Prices of the Improved Clinical Thermometers, with include divisions, in similar cases to the patent instrument, 6-inch, 10s, 6d.; 5-inch, 11s, 6d.; 5-inch Descriptive, returniers forwarded. Inventor, Patentes, and Sole Maker, HAWKSLEY, Surgical Instrument Maker, Blenheim-street, Bond-street, London, W.

THE NEW PATENT

AMERICAN ARTIFICIAL LEG.

SOLE LICENCEES:

WALTERS 16. MOORGATE-STREET. LONDON.

YNE

SPECIAL NOTICE.

The absurd statements that have recently appeared in Medical and other Journals respecting the constituents of Chicacovax (each analysis different widely), J. T. Davarrora is compelled to further CAUTION the Profession against using any Compound under the name of Libertyland and the Research of Chicacovax (each analysis) and the Research of Chicacovax (each analysis) and the Research of Chicacovax (each analysis) and the Chicacovax

"I require to use a considerable quantity of Calorodyne in cases where no other medicine is of the least avail; and my object in wishing a supply from your own extablishment is that I am frequently deceived by getting a Systems article from other places, although I never order anything but the genuine brown's Calorodyna."

From JAS. ATKIN, M.D., Medical Officer, Fever Hospital, Oldeastle, Co. Meath.

"Having ordered from our Druggisis" Chicrodyne," I was not only despeciate in its effect, but annoyed when I received a spurious compound.

I have been in the habit of using your Chicrodyne with great advantage to my patients and estatesfaction to myself.

From F. E. BARTOE, Esq., Surgeon, Bover.

"I have now used your Chlorodyne in numerous cases, and have much pleasure in adding my testimony to its very great efficacy as an Anti-spasmodic and Anodyne, having found it especially reluable in those cases in which Optum does not agree well with the patient."

"Sir.—I should be much obliged by your forwarding three bottless of Dr. J. OLLES BROWN'S CRISCOPTS, which I have found much useful in allaying pain. I have not believed by your forwarding three bottless of Dr. J. OLLES BROWN'S CRISCOPTS, which I have found much useful in allaying pain. I have not been proposed to the result; and although I obliged, as a rule, to see any preparation of a servet nature, and whose see suppopels, have received be the controlled the Chicordyne, and found that it really did product the effects stated, I do not think I should be justified in withholding such a preparation from my patients, when I see the value of the remody."

From Lord FRANCIS CONTNORAM, Mount Charles, Donegal, December 11th, 1868.

"Lord Francis Compraham, who, this time last year, bought some of Dr. J. Collis Brown's Chlorodyne from Mr. Davesport, and has found it a most wonderful medican, will be glad to have half a done bothless sent at once to the above address." Communicated to the College of Physicians that he received a despatch from Rer Majesty's Communicated to the College of Physicians that he received a despatch from Rer Majesty's Communicated to the College of Physicians that he received a despatch from Rer Majesty's Communicated to the College of Physicians that he received a despatch from Rer Majesty's Communicated to the College of Physicians that he received a despatch from Rer Majesty's Communicated to the College of Physicians and the Physicians of the College of Physicians and the College of Physici

CAUTION.—Vice-Chancellor Sir W. Page Wood stated that Dr. J. Collis Browne was undoubtedly the Inventor of CHLORODYNE, that the whole story of the Defendant was deliberately untrue, which, he regretted to say, had been sworn to,—See "Times," 13th July, 1864.

The Sole Manufacturer of Dr. COLLIS BROWNE'S Chlorodyne is

J. T. DAVENPORT, 33, Great Russell-street, Bloomsbury-square, Who alone received the Recipe, and who is the Only Authorised Maker,

ORIGINAL LECTURES

ON THE INFLUENCE OF THE NERVOUS SYSTEM ON DISEASES OF THE ORGANS AND TISSUES

By THOMAS LAYCOCK, M.D., etc., Professor of the Practice of Medicine, of Clinical Medicine, and of Medical Psychology and Mental Diseases, in the University of Edinburgh.

(These lectures have been revised, and somewhat extended, by Dr. Laycock.)

LECTURE III. THE DIAGNOSIS OF TROPHIC NERVOUS DEBILITY -CUTANEOUS TROPHESIES - METASTASIS -COUNTER-IRRITANTS.

I HAVE said little of the clinical anatomy of the trophic nervous yestem, not because I do not think it of great practical importance, but because I do not think it of great practical importance, but because I wished you to have the whole author for fully before you than it is usually presented in text-books. It is easy to gather, from what has been already stated, that such an anatomy will help us greatly to comprehend the modus operandi of general causes and romedies on the nervous system in both acute and chronic diseases. Of this class are heat and cold, exercise and rest (whether of body or of mind), pleasure and pain, antiphlogistics, tonics and stimu-lants, counter-irritants and sedatives, diurctics, cathartics, and lants, counter-irritants and actatives, diuretics, cathartics, and alteratives, and all the drugs and things named from their most obvious and often contradictory effects, without any true knowledge—too often without even recognition—of the reciprocal relations of the nervous system to the organs and disastes involved. Upon those points much may be said. I shall first consider what trophic nervous abblity is, and how it may be ascertained.

If we consider what is most common and general to all trophic nerves and nerve-centres when morbid, it is this—that nerve-energy (vis nervosa) is evolved either in excess or in defect, nerve-energy (vis nervous) is evolved either in excess or in defect, with corresponding results as tountition of issues and functions of organs. In observation the whole order of events must be investigated, and we necessarily begin with the causes of trophic nervous debility, which are those of nervous debility in general. As to the results, we may remember that the second of the contract of th by observation of the known changes in nutrition and function which they cause, being the results of trophic nervous debility, or "loss of tone." But how shall we determine what special trophic nerves and nerve-centres are involved in this loss of tone, so as to determine causation and treatment? 1st, Having ascertained what tissue-changes have occurred, we might trace out the nerves and nerve-centres in anatomical relation with the organs and tissues affected; or, 2ndly, we might reverse the process, and, fixing upon the nerves and nerve-centres—as, the process, and, fixing upon the nerves and nerre-centres—as, for example, those of the sympathetic system—refer the local changes to these, and this might be done by more than one method; or, 3rdly, we might examine clinically into both the trophic and neurotic conditions locally. In all instances the sensory conditions should be ascertained; for instances the sensory condition should be ascertained; for exercise the strophic and presenting in the mach may be done as to the first point by determining that much may be done as to the first point by determining the done as to the first point by determining that continues the strophic strophy of the skin in different regions of the body as a more matter of fact, without reference to natted and reres-centres. the sam in different regions of the body as a mere matter or fact, without reference to particular nerves and nerve-centres. For this purpose, the costhesiometer should be used systemati-cally, and the sensibilities compared with the normal. We may even go beyond this, and deduce the state of the regulative nerve-centres from the asthesiometric conditions of their respective regions of distribution.

In making these observations, it will be necessary to bear in mind what I stated in a previous lecture, on the observation of diseases of the nervous system, as to the decuseations of spinal sensory nerves, and as to the distinctness of the nerves of common sensibility or pain from tactile and thermal nerves, for there may be anesthesize of one set and not of another.

Whatever method we adopt, however, we encounter a scrious difficulty in this: that our knowledge of these trophic changes

Voz. 1. 1871. No. 1089.

is as yet imperfect; and that, as to what is known, much is either not admitted or is controverted. I think, therefore, that clinical illustrations of these neurotic changes, easy to observe

and to test, may be useful.

The glands of the skin and the products of the cutaneous tissues are constantly influenced by states of the nervous system differently induced, but with results very instructive as to like changes in other glands and tissues. Some of these can be traced to visceral "sympathies," or the diastaltic action of viscera on nerve-centres, others to functional or structural disease of the nerves and nerve-centres themselves; so that there is a large class of diseases of the skin which a clinical trophic anatomy of this kind helps to diagnose both etiologically and therapeutically. As to the anatomy, experiment helps less than close clinical observation, and the more especially because no motor or sensory neurosis is associated with them to suggest their origin.

suggest their origin.

An illustration of this kind stares you literally in the face when you study the pigmentation of the hair on the head and face (as groyness), and the varying growth of the hair on the scalp constituting baldness. Are the changes which occur due to lose of tone of the hair-bulbs solely, or are they intrinstely necre-centres? The facts are not far to seek. In the first necre-centres? The facts are not far to seek. In the first of trophesics is very manifest, both as to the extent and order of recurrence of these changes. Look round in an assembly where heads of many bald men are visible (women are rarely bald), and you will find that will you of them bald over the classification of the control of the control of the control of the control of the bald over the start of the properties of the control of baldness extends from two points—the forehead and the vertex—and ends at a line which, if carried round the head, would —and ends at a line which, it carried round the head, would touch the occipital ridge posteriorly and the cyclorws anderiorly. Look, again, at the beards of men, especially as to the order and degrees of development and of greyness, and you will find, on classification, that there are such signs of symmetry. will find, on classification, that there are such signs of symmetry and order as planily indicate correlative trophic centres of nutrition. The face-hair presents like indications. The region because the property of the pr constant (the chin-tufts) are usually the first to grizzle. constant (the chin-tutte) are usually the first to grizzle. The connexion of greyness with defective innervation is proved by both clinical observation and experimental research. Brown-Sequard from that the half of guineapigs, of which certain nerve-centres had been injured, turned white over correspond-ing parts of the body; a life fact has been observed in palsies. With this greyness, the protective properties of the tissues are diminished, for in the guineapigs just referred to the white hairs were infested exclusively with lice. I have recorded a case of strong restricted; bill the manage the nursual-head (A) case of sycosis restricted in like manner to the muzzle-beard.(a)

A man, lately in Ward 1, with aneurismal dilatation of the aorta and spasmodic nodding of the head, had the hairs over each side of the parietal region infested with the achorion Schönleinii, so that a yellow crust encrusted each hair. The akin of the same region was also pigmented, yet the vertex and coronal regions, thinly covered with hair, and the occipital region, thickly covered, were not affected. Some facts of this kind are so familiar that they lose their force; it is proverbial that care, as well as age, will turn a man grey, and it is certain (although denied by some) that painful emotions will effect this change very rapidly.

In these instances we have illustrations of those conditions of defective nutrient energy known as loss of "tone," loss of "vital energy," signs of "breaking up," of "decline of life," and the like, in which the nervous system is involved, and even indicating which centres are the first to give way, but which numerating when centres are the first to give way, but which cannot be described either anatomically or neologically, and for which I know no better name than trophic nerrous debility. To investigate the enneation would lead us far away into researches as to the operation of great laws of life and organisation, for which this is neither the time nor the place. All I would observe is, that, in the special instances just referred to, we should have to determine, in the first instance, why the head is covered with hair at all and the forehead bare; why the chin is bearded, and not the cheeks; why there are evebrows, and

why of varying size and shape ; why the hairs on the head and face differ. These and other questions, when asked, may have some kind of an answer, but I will venture to say not one theory would be given worth more than those which Bacon terms "barren virgins," spart from a knowledge of the origin, development, and functions of a trophic nervous system. One will say that the eyebrows are for a pent to the eyes, another that the beard is to keep the throat warm, and the moustache to be a respirator; they might with equal validity say that the nose is bare to keep it cool. Such theories of final causes are mose is bare to keep it cool. Such theories of himself worse than worthless scientifically; they are not only "barren."

hat are kindranees to fertile research. Even the notion that the hair is for warmth and ornament is too restricted, although it be true as far as it goes. Taking the law of evolution as a guide, together with the law of use, you will find that the hairs of the head and face follow the evolution and retrocession of the nervous system; men get first bald and grey on the top and the temples for the same reason that they decay mentally at the top, and that the animal instincts and appetites survive the

memory and intellect.

What I have said of the hair applies to the nails, epithelium, igment cells, sebaceous glands, and other cutaneous tissues. pigment cells, schaccous giands, and other customers. The changes in nutrition of the nails, in attacks of gout and other constitutional diseases, are well known to close observers. The occurrence of these attacks is sometimes indicated by white The occurrence of these attacks is sometimes mancaised by winest lines in the nails, which have a symmetrical. The symmetrical character of the bronzing in "Addison's disease" (a disease of trophic nervous debility is also an illustration, and is prob-ably due to diastaltic action of the supersormal capsules, just the string of the str as pigmentation of the mammary areola is due to a like action

of uterus or ovaries.

All these facts must be considered in connexion with that other general law to which I have already directed your attention as a guide in clinical observation—viz., that organs and tissues precede nerves in the order of development. Hence we can mark out sectional regions of nutrition and of organs, which are regulated trophically by centric regions of innervation. The diastaltic action of viscera contained in such regions on the corresponding nerve-centres, and through these on other viscera, is an important and common cause of trophesies, and ought never to be lost sight of. The trophic and neurotic sympathies of the uterus, for example, may be classified accordsympathies of the uterus, for example, may be cassance according to their anatomical manifestation. Gastric ulcer, so common in women, is so often associated with uterine disorder as a cause of that condition of the gastric mucous membrane which predisposes to softening and ulceration, that inquiry into the condition of the uterus should always be made in these cases with a view to treatment. Of course no made in these cases with a view to treatment. Of course, this is analogous to, but not identical with, the diastaltic vomiting of the early months of preguancy. The glands, fat and pigment-cells, lymphatics, and vascular cells of the cutaneous system are markedly influenced in this way, as I have already shown as to the pigmentation of the nipple in pregnancy, and the symmetrical pigmentation of the skin in Addison's disease. It is interesting to observe that very limited regions are thus marked out by reflex neurotic changes or trophesies. Thus, the eyelids are modified neurotically in at least four different ways. Three of these—namely, venous lividity of the lower cyclids, odema of both, but sepecially of the chemical control of the chemical co the lower lids, and pigmentation marking out the orbicularis muscle, are due to a diastaltic action of the genito-urinary organs; but the fourth, a copious vascularity of the upper syelids, arises, I think, from influences derived from the emotional centres. Experimental research affords no information as to the nerve-centres involved, yet the phenomena of the three first-named are so commonly associated with morbid states of the genito-urinary system that their relations are certainly etiological, and no other medium of connexion than the nervous

system can be suggested. Looking generally at the results of this trophic nervous debility, we can divide them into the actual and the conditional. It is a condition which not only induces disease, but predisposes organs and tissues everywhere to suffer from causes of dis which would otherwise be harmless. Illustrations of this kind are the dangerous attacks of inflammation from cold of organs are use outgoences with the original and in the first and of or grant as a "breaking up," and the outbreaks of gover, the mantism, and sphillis in persons predisposed from nervous exhaustion. A sphillite taint which has been dormant for many years will thus become dangerously active. All forms of acute and chronic disease might be mentioned. In so far as merely medicinal treatment is indicated, we may do much without a knowledge of the special anatomical nerves and nerve-centres involved, but when we desire to use counter-irritants and other

remedies of the class, something more than a vague general knowledge, such as the vaso-motor theories afford us, is needed practically.

Since the experimental researches of Stilling and Schiff, on Since the experimental researches of Sming and Saul, on the sympathetic as the vaso-motor system, confirmed by the equally valuable researches of Claude Bernard, Budge and Waller, Brown-Séquard, and others, pathological theories have became popular which attribute morbid heat, congestions, effusion, and exudation to a paresis or palsy of the sympathetic system, the consequence of which is that the small arteries and the capillaries lose their contractility and retentiveness. But, besides the fact that this view gives us no clue to those changes, which, being chemical, are independent of vaso-motor nerves proper, it is certain that the whole cerebro-spinal system contains both trophic and vaso-motor centres, so that the commonly current taeories of vano-motor activity, which ignores this fact, are of little value. Striking illustrations of this assertion may be seen on careful observation of patients. For example, we had (in Ward 1) a case of probable sybhilitic paraplegra in a young man, aged 24, in which there was suddenly complete loss of sensation and motion from the lumbar region downwards If the symptoms had not included more than this, the case would not have taught us much; but, in addition to retention of urine and fieces from palsy, there was a noteworthy recession of urine and neces from plany, since was a followorthy absence of febrie vaso-motor phenomena in the palsted limbs, due to inhibitory influence induced by the spinal lesion, for, while in the upper half of the body there were rigors and goose-akin, followed by aweats, in the palsted half, none of these, only a sensation of cold, and this was illustre, for the thermometer marked 104° in the groin and 103° in the axilla. With this higher temperature in the palsied parts there was no power of resistance to cold, for an ice-bag which had been wed to remain on the loins for four or five minutes caused redness and blisters where applied. Blisters and sloughing of the soles of the feet had also been caused by a hot-water bottle. This as to changes of temperature; but such is the diminished power of resistance to injurious agents that the lips of the power of resistance to injurious agents that the him of the urethra and the margins of the prepuse were excertated by the urine, which was not abnormal in quality. Again, as too often happens in these cases, sloughing over the trochanter and sacrum from pressure came on in spite of the diligent use of a water-cushion. In short, as to remedial means we were help-less, because of the spinal lesion. It is of little avail to theorise on these cases; the practical point is, that with complete amesthesia and motor palsy the conservative reaction of the tissues as regards heat and cold and other causes of local disease, and as to the cause of the fever manifested elsewhere, are alike wanting.

(To be continued.)

ORIGINAL COMMUNICATIONS.

A CASE OF MYELITIS.(a)

By ROBERT W. TIBBITS, M.B., M.R.C.S., Surgeon to the Bristol Royal Infirmary.

SAMUEL B., aged 22, Hansom cab driver, was admitted into No. 19 ward of the Bristol Royal Infirmary, on June 28. His relatives, he informed me, lad all been healthy, the only point of interest in his family history being that his father had died in an asylum, having become insane directly after injuring his thumb. He himself had always enjoyed good health until the third week in April, when, whitse driving his cab between two carts, it came into collision with them, and he was thrown violently to the ground, striking his back when he fell. able to go on driving, but went to the Infirmary the same day, complaining principally of pain in his groins, for which he was under treatment for a week. After that he considered himself quite well, nor did he feel any pain or uneasiness or sense of

weakness in his back or legs, even after a hard day's work.
On some day during the first week in June he got wet
through, and sat for some time in his wet clothes; this, though,

through, and sain or some date in its wer concess, this, through was no uncommon thing for him to do. O alone 8, or about six weeks after his former accident, he not with another one. The horse he was driving falling down, he was pitched forwards, striking his knose sharply against the back of his cab, but is certain that he did not strain his back at all on this occasion

The following day his knees were very painful, and he con-

(a) Read before the Bath and Bristol Branch of the British Medical

tinned to suffer from them up to June 18, but they were not sufficiently bad to prevent him following his employment. When he left off work on the 18th, with the exception of the pain in his knees he felt perfectly well, until after he had gone to bed, when his feet became numb; and he also had a sense of numbness round his bowels. He had no pain in his back or limbs.

June 19.-Was well enough to go out and walk about with difficulty, his feet and bowels still feeling numb. His bowels were opened regularly, and he passed his urine without diffi-culty. This condition continued for the next four days, when, on the morning of the 22nd, about two hours after he was dressed, he suddenly lost the use of his legs, and soon after he was put to bed his nrine began to dribble away from him. The bowels were constipated; he had no pain either in his back or limbs; his appetite continued good.

28th (or ton days after the first symptom of paralysis), he came under my care at the Bristol Royal Infirmary. He looked a fresh-complexioned, healthy young man, and seemed to con-sider his illness rather a joke; his appetite was good, and he declared that he felt perfectly well in himself. From a line deciared that he fest perfectly well in himself. From a line drawn round his body, about an inch below the umbilicus, he was completely paralysed, both as regards sensation and motion. His urine dribbled away from him, but the bladder was contracted, and not distended. The bowels were constipated; pulse 96; temperature not taken. Ordered a tur-pentine enema immediately, and a drop of croton oil in the

morning if necessary.

29th.—Pulse 100; temperature 103°; bowels had been opened by the enema; the line of complete paralysis had risen to about an inch above the mbilicus; appetite continued good. He assured me that he felt in his usual health but for his legs. Ordered twenty drops of the tineture of perchloride of iron every three hours, and to be cupped over the loins to ten onnees.

31st.-1 p.m.: Pulse, 112; temperature, 102.4°; respiration, 32 per minute and catching; face flushed; tongue red and slightly dry; complains of great thirst; line of complete paralysis of body risen to an inch above the ensiform cartilage; Jysus of body risen to an inch above the ensiform cartilage; arms nearly completely paralysed both as regards sensation arms nearly completely paralysed both as regards sensation if when pricked, cannot mention the point that is tooched. On a lump of ice being drawn down the spine, complained that it burned him when opposite the two upper dorsal vertebra. Ordered twenty minims of the liquid extract of ergot every four hours, and to be blistered on both sides of the spine from this neck to his ascrum. If there was no marked improvement

his neck to his sacrum. If there was no marked improvement by the morning, the spinal loc-bag was to be applied. 9 p.m.: Evidently worse. Pulse, 132; temporature, 103 %; respiration, 40 per minute. He had great difficulty in speaking.

July 1.—9 a.m.: I musch the same condition. Pulse, 130;

July 1.—9 a.m.: I musch the same condition, Pulse, 130;

spine. At 1; p.m. a wonderful improvement had taken place aince the ice had been applied. Pulse fallen to 100, respiration to 24, and temporature to 99 c.". Breathing asally instead of gasping, and said that he felt much better. Line of paralysis of trunk risen to fifth rib. Arms completely paralysed. 9 p.m.: Pulse, 102; temperature, 101 2; recipration, 25. Felt inclined 2nd.—Has passed a rood night, Pulse, 96: temperature.

to sleep. I ose to be continued.

2nd.—Has passed a good night. Pulse, 96; temperature,
99.6°; respiration, 24. Paralysis of trunk fallen to a level
with the centre of the ensiform cartilage; at that point sensawhen the centred of the description and the property of the centred of the centre

in arms slightly improved. Hyperesthesia present in both. Complained loudly of being pinched when only lightly touched. Complained loudly of being punched when only ugnuy concned. Increased sensibility also round body for about two inches above ensiform cartilage. Complete paralysis below this point. Bowels opened by enema. Appetite improving. Ice to be

I need not tire you with a daily history of this case. The ice-bag was constantly kept to his spine, and up to a certain point he continued steadily to improve. The pulse and temperature remained below 100, and in about ten days he had nearly completely recovered the use of his arms. The line of paralysis of the trunk never fell below the ensiform cartilage, parayses of the trunk never tell besove the custom cartinage, and for about two inches above this point marked hyperesthesia remained present. At times he had violent involuntary jump ing movements in both legs, and, although there was no return of sensation, on tickling the soles of his feet his legs were immediately drawn np. The bowels for some time required purgative medicine to open them. The urine continued to dribble away from him is the bladder remaining contracted. His appetite was good. The ice-bag was continued to the spine, and on one or two occasions, when it was omitted for a short time, the temperature immediately rose to over 103°. He creating in much the same condition until the end of Angust, large bedsores gradually forming over the sacrum and right trochanter; he then began to sink rapidly, and died on September 14, just three months from the occurrence of the

September 18, just once mouses from our occurrence for third sign of paralysis.

Post-morten Examination, Teceive Hours after Death.—Lungs at base congested; all the other viscera healthy. Bladder extremely contracted. Membranes of spinal cord healthy; contracted. The spinal cord healthy; contracted the spinal cord healthy contracted the spinal cord healthy contracted the spinal cord healthy; contracted the spinal cord healthy tremely softened; the other parts of it to the naked eye seemed to be healthy. It was difficult to harden in chromic acid this softened part, and the sections I obtained from it showed no trace of nerve-structure. From the npper border of this com-pletely softened part a spot of softening, with a distinct wall of connective tissue at its commencement, about one-tenth of an inch in diameter, passed up through the right anterior columns of the cord as far as the middle cervical region, where it gradually terminated. This spot of softening seemed to bulge out the cord and to press on the right anterior horn of ouge out the cord and to press on the right anterior form of the grey matter, the commission, and also the anterior column the column of the cord with the column of the column integrated part of the cord were two points of extremely circumscribed softening, the smallest of these being in the right anterior, the largest in the right lateral column; these terminated at the lumbar enlargement, which seemed to be

perfectly healthy.

Now, I think this case presents several points of very great interest. First, What was the cause of his disease—was it caused by cold from sitting in wet clothes, or was it the result of injury? And, if it came on from injury, which of the two accidents that he met with had the principal share in the mischief? The first accident, when he was thrown violently on his back to the ground, was a likely one to cause spinal disease, but then this was six weeks before the first sign of paralysis appeared, and for a month his recovery had been completeappeared, and for a mouse his recovery had been complete—he felt no pain, no weakness, no uneasiness, even after a hard day's work. Could recovery be seemingly so perfect for so long a time, and yet spinal mischief afterwards arise? The song a time, and yet spinal mischier atterwards arise? The patient, who was a very intelligent young man, was certain that he was in perfect health for a month previous to the occurrence of paralysis. Then as regards the second injury, it was a slight one—he simply knocked his knees against the back of his cab when his horse feld down. He did not throw himself backwards, attempting to hold his horse from falling, and are self which he had sure would be in the never felt that he had wrenched or shook his back in the slightest degree; still his illness seemed to date from this time. My own opinion is that the first accident must have been to a any war opinion is time the first accusent must have been to a great extent the cause of the disease. His occupation as a cabdivier would probably subject his spine to constant very slight occusions as he joided over the stoues of some of the roughly-pared streets, and so tend to perpetuate any mischief of the cord, however slight it might have been. Then the second accident put the finishing touch to an already weakened cord. Also, it is of inferent to remember that his father slice. cord. Also, it is of interest to remember that his father died corst. Ann, it is of interest to remember that his list them to that insane, having become so directly after injuring his thumb; so that he might have had an hereditary tendency to disease of the nervous centres. Against this view there is the fact that his recovery from the first accident seemed to have been perns recovery from the first accident seemed to have been per-fect. And then, again, acate myelitis is not the form of spinal disease that is commonly caused by injury. On this point is should like to hear the opinion of the meeting, but I feel sure that if either injury had been received in a railway accident, and the case had come before a jury in the shape of an accident, and the case had come before a jury in the shape of an accident, for damages, it would have afforded a more than usually fine overdence.

The diagnosis of the disease during life was easy. The total absence of pain and the complete character of the paralysis, both of the extremities and bladder, showed that the cord, and not its membranes, was the part affected. It is of interest, too, to notice that, at a time when the patient stated that he felt well in himself and had a good appetite, the temperature

ranged above 103°

ranged above 103. The case directly after the man's admission into the Infemoury was extremely rapid. In three days the paralysis had risen from just below the unbillient to about the upper border of the fifth rib, the arms also had become completely paralysed, and the breathing was seriously affected; in fact, with a temperature of 1034's, a pulse of 132, and

catching respiration of 40 per minute, the patient seemed at the point of death. Then, when the spinal ice-bag was applied, the change was extraordinary. In three hours the temperature had fallen to 99:2*, the pulse to 100, and the respiration to 24 per minute: the patient's condition was changed from one of great anxiety to one of comparative changed from the case terminating favourably. The same few days it appeared as if there was considerable because the case terminating favourably. The patient recovered the other case terminating favourably. The patient recovered the functions, but, unfortunately, the mischief in the covered its functions, but, unfortunately, the mischief in the dorsal region had gone beyond repair, and the man at length, dorsal region had gone beyond repair, and the man at length, getting bedsores, died from exhaustion.

What would have been the result if the spinal ice-bag had been applied earlier in the case? As it was, I have no doubt that the man's life was prolonged by it for more than two months, for when it was had recourse to, to all appearance he had very few hours to live. Certainly, if I ever have a similar case to treat, I shall from the first apply ice to the spine.

THE MORTALITY FROM SMALL-POX IN REGARD TO SEX AND AGE.

By C. A. FOX.

THE valuable series of volumes of the Registrar-General's The Vanaous series of volumes of the negatira-volumes as Reports furnish us not only with the sum totals of deaths, which I have used in my former paper (Mesical Times and Castir, Petruary II), but also classify the deaths according to an analysis of the series of the paper, to examine those from analysis in these relations, and will endeavour to express, as analysis in these relations, and will endeavour to express, as clearly as possible, the results.

I will first briefly allude to one or two considerations arising out of the branches of the subject under review in the former

paper.

1. I have been asked what is the average duration of smallpox epidemics. The general period of recurrence to which attention was drawn, and which is borne out by the present epidemic, was stated to extend from the point of maximum mortality of any epidemic to that of the next. It will be seen that any other mode of estimating the intervals of epidemies would be fallacious, as the duration of an epidemic depends upon the meaning which we attach to the term. "Epidemic" is an arbitrary term, relating to an arbitrary period with undefined aroutary serm, resuling to an aroutary person with uncenned limits. Hence the only certain and apparent estimate of inter-vening periods is that measured by the points of maximum. But if we assume by "epidemio" that the mortality of a quarter exceeds the average, the durations severally of those within thirty-one years will be as follows:—

1840			5	quarters.			3	quarters
1844			6		1860		5	. ,,
1848	٠		7	**	1863		4	**
1852			7	***	1867			

in which an average duration of five and three-eighth quarters, or exactly one year and one-third, is exhibited. Whatever be or exactly one year and one-third, is exhibited. Whatever be the value of this proximate result, we may note that in this range of years forly-three quarters have exceeded the average quarterly mortality—i.e., rather over one-third of the whole particle of the control of the particle of the control of the control of the control of the particle of the control of the control of the control of the particle of the control of t for the last quarter of 1870 (178 to the million), in the early part of the epidemic, had not been exceeded since the same quarter of 1848, with the exception of the second quarters of 1852 and 1863.

2. The seasonal maxima and minima must not be unduly 2. The scasonal maxima and minima must not be unduly considered, as they form the average of years of alternate extremes, and are wholly over-ridden by the wave of prevalence which, in epidemic times, involves different seasons in succession. Nor can we state any time of year which epidemic choose more than another. As the period of the property the year.

3. The successive points of highest mortality in England and Wales are as follow: 1838, (probably 1844 or 1845), 1851, 1858, 1864, and the present time. I have not been able to find the records of annual deaths from 1843 to 1846 into and the records of annual Goaths from 1843 to 1846 in-clusive; but assuming that a rise took place in 1844 or 1845, it will be seen that the law for the country generally is that periods of six or seven years clapse between the epidemics of small-pox, thus indicating the cycles of recurrence throughout England to be nearly double what they are in the metropolis. 4. It should be remembered that the prevalence and the fatality of a disease are distinct classes of investigation; they

may or may not harmonise in any class which we may review. may or may nor marmonise in any cases which we may review. Thus, a high mortality might occasis with a limited prevalence of any disease, and a low mortality may characterise an epidemic of very general extent. The facts relative to our present inquiries present the fallacy of being founded upon one only of these forms of data-the number who die-and proceed upon the very questionable assumption that in each year the ratio of deaths to cases is the same—that the mortality to a

given number attacked is always uniform.

6. The total annual mortality from small-pox for the metroo. The total annual mortality from small-pox for the metropolis in the thirty-one years 1840 to 1870 was, as before mentioned, 333 per 1,000,000 of the population. The ex has been published for the twenty-seven years 1842 to 1868—a smill-ciently long period on which to found conclusions. The number of destude during this period was 11,238 males, 9943 females—that is, out of every 1000 deaths from smill-pox, 531 were males and 469 females. But the population at the middle. were males and 469 females. But the population at the middle of the period consisted of 468 males and 532 females to every 1000. Thus, whilst the male sex has the most deaths, the female sex has the most living, making the excess of deaths still more marked in the males. To show the real relative mortality of the sexes, the two must be combined. On the principle taity of the sexes, the two must be communed. On the principles of multiplying the mortality by the ratio of deaths and of the community of the community of the community of the community of males is 377 in 1,000,000, of females 301. This is a wide difference, and is in the proportion of 128 to 100; in other words, the relative mortality is such that, if of a certain number of females 100 died in the year, of the same number of males 128 would die in the same time.

This is the average of a long course of years. The question may be asked, Does this great excess of male over female mortality remain the same in years of epidemic when the mortality is high and in years when it is low? In 1863 and 1861, when the mortality was at a minimum, we find that the ratio of male mortality to that of females was the same as the average; but taking two epidemic years, as 1848 and 1866, the excess of male mortality is much greater, and reaches 1351 (instead of 128). It is thus seen that the epidemic influence, whatever it be, does not merely exaggerate the usual relative mortality, but still more increases the general higher liability possessed by males to die

of this disease.

Metropolis

For comparison of England and Wales with the foregoing, I have been able to obtain the deaths according to sex from 1847 to 1868, including twenty-two years. The total annual mortality throughout the land (from variols) was 289 per 1,000,000 on the average of twenty-seven years. The deaths 1,000,000 on the average of twenty-seven years. The deaths (from 1847 to 1869) were distributed amongst 48,189 males and 43,124 females, being, out of every 1000, 528 males and 472 females. These numbers are very close to those we remarked in the metropolis, displaying the fact that males are 3 more in London to every 1000 deaths from varioni than they are in the country generally. In England, the population, on the average of twenty years, consisted, to every 1000, of 488 males and 512 females. Employing the process used above, the mortality throughout the land, accounting for the unequal ratie of sexes in the population, is found to be—males 311, females 266 to the standard of 1,000,000. Males, therefore, have a greater mortality in the ratio of 117 to 100 deaths of females—a relative mortality, however, less striking than that found in the metropolis.

These figures give us the comparison of sex, and are based upon the longest series of years I could employ; but accurately to compare the deaths according to locality, we should use a mortality of the same series of years in both cases. On taking that for the years 1847-68 in each instance, the true mortalities obtained are as follows in terms of 1,000,000 of population :-

Males. Females. 354

England and Wales . 247 It will be remembered that these results are independent alike of the sex ratio of the living and of the actual amount of deaths either in London or the country at large, whilst they do away with the dissimilarity of population in the two divisions we have surveyed by the common standard of 100 which we have

adopted.
On examining in the same way the true death-rates of mini-On examining in the same way the true uestar-rates or mini-mum (1861 and 1865) and of maximum years (1861 and 1864) at to compare them with the average, it is found, as in London, that the first corresponds with the average, and the second exceeds it, in regard to the excess of male mortality. It is thus

interesting to observe the rule above stated confirmed by observation on a larger field, and with a greater and, therefore, more valuable extent of facts. In England, in epidemic years, makes are to females as 120 to 100—a ratio less than any in the metrorolic though a little to 100.

mates are to termines as 120 to 100—a ratio less than any in the metropolis, though a little above the relative proportion general in England and Wales.

7. I have been able to obtain the deaths according to age in London from 1842 to 1868, of which I have not used those from 1842 to 1844, as they are recorded in decimal decades. from 1042 to 1044, as tings are recovered in sections of control of the conclusions to be drawn are not intended for comparison of sex, although they will admit of collation with others upon the same model drawn from other fields of fact.

same monei-drawn from oner neids of ract.
The true mortality of all ages for males was 377 per annum, as above observed. We want to find that for different periods of life respectively. Taking the relation of the deaths of any spech to the total number conceived as 100, and the relation due of the living at that time of life to the total number also due of the living at that time of life to the total number also brought to a percentage, I multiply the mortality for all ages by the former and divide by the latter. Thus the correct 1861 alone, and being otherwise not wholly reliable. In the case of other ages, I have calculated the population for those ages severally as that of the middle of the series of years under review. One interesting point strikes one at once in examining the curve formed by the mortality-viz., that (as we noticed in the curre termed by the mortality—who, has the we notice in the curre of average annual mortality irrespective of ago), there are in small-pox two maxima. The number of males who die from it in London under 1 year of age is not less than who are from it in London under 1 year or age is not less than 2439 to the 1,000,000 living at the same age, and the mortality under 5 is 1477. Thenceforth there is a gradual decline to a minimum of 105 in the quinquenniad 10—15. This is followed by a rise, culminating in a maximum of 299 in the period between 20 and 26. From this age a gentle decline is manifest, with a trifling angmentation between 65 and 70.

The female mortality presents a more even curre: 1475 die under δ (to the 1,000,000), and 2285 under 1 year of age. As in the male instance, the mortality decreases for each year of infancy under 5, and diminishes from this age to the quinquenniad 10—16. This is the first minimum—103. The second maximum point is much less marked than in the male sex; it occurs in the same quinquenniad (20 to 25), and reaches a rate of 147. From this period there is a very regular decline, reaching 21 to the 1,000,000 in the decade of 55 to 55, and

thereafter being practically nil.

8. For the country I have obtained the deaths by age from o. For the country I have outside the means of section 1855 to 1868—a lapse of fourteen years. In England and Wales the mortality on the scale of age is analogous. Of the males, 2014 die before the end of the first year, and 986 before the completion of 5 (to the same standard of 1,000,000 of living the competion of 0 to the same standard of 1,000,000 attribute at the respective ages). In the decade 5 to 15, the number is 252, and by the quinquenniad of 10—15, the remarkable 252, and by the quinquenniad of 10—15, the remarkable minimum of 31 is med with. Then there comes a slow ascent, and the second maximum, between 20 and 25, stands at 240. A hymonolous decline in the mortalities asceeds to the close A hymonolous decline in the mortalities asceeds to the close A hymonolous decline in the mortalities asceeds to the close A hymonolous decline in the mortalities asceeds to the close A hymonolous decline in the mortalities asceeds to the close A hymonolous decline in the mortalities are consecuted to the close A hymonolous decline in the mortalities are consecuted to the close A hymonolous decline in the mortalities are consecuted to the close A hymonolous decline in the contraction of the

On the female side, the infants under 1 have a mortality On the remain side, the innants under 1 have a mortality of 1820, and under 5 collectively of 915 per million. As in other cases, the fatality decreases for each year before 5. The first minimum and the second maximum are less striking than in the males—the former indicating a death-rate of 85 and the latter of 126, in the quinquenniads of 10-15 and 20-25 respectively. A regular diminution follows in each

successive period.

successive period.

9. Thus, we see that, after the large death-rate at the dawn
of life, there is invariably an nausual degree of mortality from
small-pox in the years of vigour and early manhood between
20 and 25. This is so in town and country, male and female, and, therefore, cannot be due entirely to increased exposure. There also seems to be a degree of immunity from the disease There also seems to be a degree or immunity iron are uses, from 10 to 15 years of age, so that the same points (when only measured by quinquenniade) mark the periods of maximum in every case. In England, the mortality remains sensible ten in every case. In England, the mortality remains sensible ten of the property of the precise of the precise of the cases after 55 or 70. Which is what wainlight have apprehended. In the same way, the infantile mortality by far exceeds in the metropolis, so that the curve, which is highest at one extremity, is always lowest at the other. We see, also, how little the numbers, male or female, vary in infants, and how the greater part of those who die, die under I year of age.

10. The preceding conclusions are true for periods the longest I could select, and unbiassed, of course, by the different scale of facts which London and England respectively afford. The metropolitan numbers, as they are the more important, are also the more valuable, as embracing a greater range of years, although they have not the advantage of the country statistics in commanding such extensive basis for deductions on any given age.

given age.

Choosing three periods of life, I have compared the correct mortalities in epidemic years and in years preternaturally mild in various with that of the periods above employed, to see whether any particular approximation or divergence from the average at any age marks either of the extremes. In each average at any age marks either of the extremes. In each except a section of the action of the a characteristic of the class.

In the metropolis, the true mortality at any of the three eriods made use of in the years of maximum mortality exceeds that of an average of years in both sexes. The mortality in years of minimum is in both uniformly below the average, and

yeary much farther from it than the preceding.
In England and Wales, also, the mortality at either period,

and in either sex, exceeds in years of maximum, and in years of minimum fails to reach the average of the fourteen years selected, the divergence being greatest in the minimum years.

In London (to be more minute), the widest distance from the average rate of mortality occurs in the interval between the ages of 5 and 25 in years of maximum, and previous to 5 years old in those selected for minimum mortality. Both in high and in low years the rate of death approaches most the average in the period from 25 to the decline of life. In every comparison an average is employed corresponding to the portion of life which we desire to compare, and the conclusions thus drawn in regard to age are such as are true alike of males and females.

In the country, as a whole, the same rule holds good, the ages 5 to 25 presenting the greatest difference from, and those following 25 the greatest similarity to, the average.

It may be remarked that in both London and throughout

the land the relations to the average mortality exhibited by the sexes most agree with one another in the first quinquenniad of life-a rule both with maximum and minimum years, as we observed it also to be with any series of years whose mortality we surveyed.

It is perhaps worthy of mention that the number of deaths under 5 years of age in minimum years is greater in the female sex than amongst males, as is especially indicated in the returns

for England and Wales.

We may also adduce from the foregoing comparisons in the metropolis and in England and Wales the following general conclusion:—That it is in years apparently most free from the presence of the disease that the usual rate of mortality is most widely departed from, this departure being most marked previous to the age of 5, and least evident subsequent to 25. London Hospital.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

CHARING-CROSS HOSPITAL

DOUBLE AORTIC MURMUR—BULGING OF AXILLA FROM HYPERTROPHOUS ELONGATION OF HEART -ABSENCE OF REGURGITANT PULSE; ITS EX-PLANATION, ETC.

(Under the care of Dr. SALTER.)

FREDERIC S., aged 17, a tall, very thin, strumous-looking youth, of fair complexion and light hair, hy occupation a grocer's massistant, always having lad good health np to a year ago, except the complaints of childhood, was admitted into the except the companies of enumerous, was admitted into Lee Hospital on May 11, with the symptoms and signs of heart disease. Both parents are living—the father well, the mother a marryt to rhounatism for the last eighten years, and now con-fined to her bed by it; one sister and five brothers are all healthy.

Tweire months ago he was attacked with "rheumatics," affecting principally his legs, and making them stiff. He had no fever, and was not confined to his bed, but got up about ten or eleven o'clock every morning, and was able to hobble about with a stick. His knees seemed the joints principally affected.

Under these circumstances, he was seized with "difficulty in fetching his breath," and pain in his cheet, at mid-sternum, as well as palpitation; no cough or spitting. He consulted a Doctor at West Drayton, who examined him with the stethosope, and told him his heart was affected; he gave him some cope, and told him his heart was affected; he gave him some cope, and told him his heart was affected; he gave him some was able to resume his work all bod, and in three weeks he was able to resume his work all the ways suffered from appeared. But from that time he has always suffered from abortness of breath and palpitation if he has taken any violent accretion, such as lifting a heavy weight, or running. He never suffered from any such symptoms before. They seemed, however, to be gradually getting less till about three weeks ago, when they suddenly became worse, without any apparent cause, Appetite extrawely good—craving; howels regular; pulse 52; respirations 22, when sitting tranquilly the patient, the first

respirations 22, when sitting tranquilly.

Physical Examination.—On stripping the patient, the first
thing that strikes the eye is the displacement of the apex-beat
to the left; instead of the impulse being seen in its normal
position, it is conspicuously visible so far to the left that we may fairly say it is in the axilla—a good two inches to the left of a line dropped vertically from the nipple, and six inches from mid-sternum opposite the fourth cartilages. Not only is the impulse movement greatly exaggerated in this situation, both to the eye and touch, but it is diffused over too wide an area, being visible in the fourth, fifth, and sixth interspaces. area, being visible in the fourth, fifth, and sixth interspaces. Moreover, there is corresponding to this area a distinct bulging in front of a line dropped vertically from the centre of the axilla: the fourth, fifth, and (I think) the sixth ribs are arched outwards for a distance of about two inches (and the interspaces correspondingly full), in a way that there is nothing to correspond with on the opposite side. It is so conspicuous that it cannot escape the eye for a moment; it looks like the mammary fulness transferred to the axilla, and it exactly corresponds to the area of unduly visible heart's movements. The heart appears to be immediately beneath the surface, but, on listening with the stethoscope, the respiratory sounds are heard (at least, at the posterior margin of the seat of fulness), showing that lung is there. The coincidence of the bulging with the heaving, thrusting movements of the heart makes it impossible to resist the impression that the chest wall is here driven out by the heart. In the normal situation, the cardiac movements are near un tile bornau stuation, the cartials movements are the set of the aper-best in the sixty on the hand; the set of the aper-best in the sixty on the hand; nothing but the heaving and too widely-diffused impulse; but at the base not only is the sortic impulse felt to be too strong, but is accompanied by a distinct thrill. On listening at the base, a double murmur is heard—first, a rough, short one at to see, a donne murmur is heard—first, a rough, short one at the systels, with a slight sense of thrill; and, secondly, a long, of the second of the second of the second of the second disatole, and only oceaning just before the next systels. The first of these murmurs is propagated in the direction of the arch of the aorta and its branches, the second down in the direction of the left costal cartillages. On listening at the spex, threeton of the sert costal cartialges. On instening at the approximation the only abnormal sound is the distant sortio regurgitant murmur; the sounds are otherwise natural, barring the access. No visible regurgitant character of pulse. Pulmonary sounds everywhere healthy on both sides.

On May 31 Dr. Salter thought he found a trace of mitral

systolic grind at the apex. The nortic systolic murmur was quite lost before the apex was reached, so it could not be that, and it was at a different time from the nortic diastolic. There was craining a systolic thrill perceptible by the hand at the apex, a thing Dr. Salter did not think he had ever noticed as due to an sortic systolic mmur—(i.e., at the apex). The apex-best he found a good three inches, measured, below and to the laft of the laft viscole.

left of the left nipple. In his clinical observations Dr. Salter remarked that there were two or three points in the case that were worthy of note- That he did not remember ever to have seen the seat of apex-beat transferred so completely to the axilla.
 That he certainly had never seen a circumscribed and limited bulging of the chest wall, corresponding with the heart's apex, such as seen here That there existed here well-marked, prolonged diastolic murmur without regurgitant pulse. How was that? Simply because the murnur was prolonged—because the regurgitation through the sortie orifice was slow and sustained. It is in cases of sudden and short diastolic murmur, where the blood "flops" back at once from the sorts into the ventricle through a wide orifice, that the regurgitant pulse is the most marked; a wide office, and the regurgitant price is the most market, but these are exactly the cases where the murman is the least marked. The squirting of a slender thread of blood through a narrow chink by an acrta of undiminished tension will give much more sound than the immediate transfer back again to

the ventricle of the contents of the sorts through an orifice so patulous that hardly any opposition is offered to its redux. In no case is there greater disparity between the amount of murmur and the amount of derangement of the heart's mechanism than in aortic regurgitation.

THE LONDON HOSPITAL.

NOTES OF CASES UNDER THE CARE OF MR. HUTCHINSON

Excision of Elbow-joint for Abscess after Chronic Rheumatic Arthritis-Examination of the Joint.

Accesses of Elever-point for Absense after Caronic Manuschic
Or Wednesday, April 12, we were present when Mr. Hichhiason
existed and the present when Mr. The thin and
the second of the second of the second of the connection with chronic
rheumatic arthritis. The disease had followed a sprain,
which occurred fifteen months before. Absenses formed
about the joint about four months before Absenses formed
about the joint about four months before admission. They
gave rise to sinuses, which were still discharging at the
date of the operation. The joint admitted of considerables
movement without any great pain, and Mr. Hutchiason
remarked on the comparative alightness of this symptom in
cases of the above kind, as compared with other forms of suphad been predicated, quite devoid of cartilage, the articular
lanella being thicknesd and highly polished, although not
grooved. The joint-surface showed, in one or two places,
commencing ulceration, and the same process was found to
have advanced to a considerable extent at some parts of the
margina, which were in consequence eather away and rough. margins, which were in consequence esten away and rough. There were only slight traces of the ontgrowth of lip from the bones of this elbow-joint. It may, however, be mentioned that well-marked lips could be felt on the condyles of the femora. The synovial membrane was considerably thickened in some parts, and two n its line markets, but no loose bodies. An operation was deemed adviamble in this case, notwithstanding the patient's advanced age, on account of the unbestaltly and inflamed state of the parts around the joint. The arm, although not very painful, was vendered quite useless by the state of the joint and its surroundings, and there seemed but the state of the joint and its surroundings, and there seemed but the control of the inflammation autoding within a reasonable time. margins, which were in consequence eaten away and rough.

Excision of the Joint of the Great-toe for Abscess after Chronic Rheumatic Arthritis.

A somewhat similar case was operated on by Mr. Hntchin-A somewhat similar case was operated on by Mr. Hatchin-on about five weeks aço, the part excised being, however, the metataro-philangeal joint of the great-toe. The man had been aware of grating in the joint for two years, and the same in question had inflamed and suppurated. It is now almost healed, and the toe is in every respect much better than it was before. The patient himself considered his recent attack to have been 'r-heumatic gout.' The ends of the bones were in a condition very similar to those of the elbow-joint, but there was more of marginal ulocarsion, and a smaller area of eburna-vas more of marginal ulocarsion, and a smaller area of eburna-

Exision of Energiant for Chronic Symoritis with Pulpy
Thickening of Symorial Membrane.

On the same day, Mr. Hatchinson performed excision of the knee on a woman, aged 33, for strumous disease of the joint. It was in a chronic condition, the knee having been swellen for three years, and there had been no suppuration; but there was very great thickening of symorial membrane, and the joint, after having had every opportunity for improvement afforded by a long rost in bod, generous diet, etc., had constroid by a long rost in bod, generous diet, etc., had concoursed. The joint presented a very well-marked example of the gelatinous degeneration of symorial membrane, the articular surfaces of the bones being almost covered by the thickened, soft, vascular tissue, and the cartillage softened and more or soft, vascular tissue, and the cartilage softened and more or sort, vascular ussue, and one cartingly softeness and more or less removed at the parts covered by the encroaching synovial membrane. This patient was also suffering from angular curvature, of about the same duration as the disease of the knee. A week or two before admission she noticed a swelling about two inches above the right likes crest. This was opened. It had almost healed at the time of operation.

Immense Number of Melon-seed-like Bodies in a Macal Cyst

(Ganglion) in front of Ankle-joint.

There is at present under Mr. Hutchinson's care, in Mellish Ward, an interesting and somewhat unusual case of ganglion in front of the ankle-joint. The patient is a young man, aged 20. He gare a history of several slight sprains, and stated that the swelling had been coming on for eighteen months. It had been blistered and subsequently punctured by a Surgeon before his admission, but he said that it had not diminished perceptibly afterwards. On admission, there was a large soft swelling in front of the ankle. It was alightly Fluctuation was readily detected between the upper and lower parts. To its inner side was a much smaller swelling, also fluctuating, but apparently not communicating with the large one. Mr. Hutchinson considered it to be ganglion of the sheath of one or more of the tendons passing beneath the annular ligament, although the diagnosis was at first rather complicated by the swelling at the inner side. A free incision was made into the large swelling. A little finit escaped, but "melon-seed" bodies, closely packet together. Most of them were loose, but a few still adhered to the thickened sprovids sheath. There were enough of them to almost fill a tablespoon.

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Medical Times and Gazette.

SATURDAY, MAY 13, 1871.

VACCINATION AND SYPHILIS.

REGARDING the Royal Medical and Chirurgical Society as a kind of Upper House in the Medical Parliament, no one can say that its time was not most fitly occupied last Tuesday evening by the renewed discussion upon Mr. Jonathan Hntchinson's paper. Whether we look at the questions raised by it in their scientific aspect or in their probable bearing upon the future of vaccination in this country, their gravity is beyond dispute. And the gravity of the occasion was suitably recognised by every speaker, the debate being conspicuous for its sobriety of tone, and for the absence of all that angry declamation which threw a distressing shade over the discussions upon a similar subject, in the corresponding assembly across the channel, a few years ago. When the President, before the business of the evening commenced, announced that the Council of the Society had determined upon appointing a committee of investigation into the facts alleged by Mr. Hntchinson, the propriety of the course adopted was at once recognised, and the announcement itself produced an universal feeling of relief. For, however valuable the criticisms of the Fellows present might be, it was evident that the mere statement of the impressions made upon individual minds could not carry the weight of a collective opinion, expressed after close investigation and mature, quiet deliberation, by a limited number of scientific experts. Probably the Council will also see fit to call upon this committee to report upon the best means of avoiding for the future the occurrence of a similar

disaster, and to lay down such authoritative rules of practices in vaccination as may serve to protect the public on the one hand, and, on the other, the members of the Profession, who, by adhering to them, may show that they have exercisate every precaution which modern science can propose. A motion to this effect, made by Mr. Simon, was rejected by the President as on of order; but he promised that its recommendation should be brought under the notice of the Council.

The business of the evening commenced with the reading of a second paper by Mr. Hutchinson, in which he continued the history of the cases previously detailed, and put forward some further alleged recent instances of syphillitic inoculation, which had within the last fortnight been brought under his notice. We shall not occupy our space here with an analysis of this communication (it will be found in the columns devoted to the reports of societies), but shall proceed to the expression of a few thoughts originating out of the contemplation of Mr. Hutchinson's cases. If they have no other value, they may serve as hints for the committee of inquiry.

The two most recent writers upon vaccination who have discussed at any length the subject of vaccino-syphilitic inoculation, are Dr. Seaton and Dr. Edward Ballard. The former derotes a chapter of his hand-book to the subject, the latter has given, in his essay on vaccination, the fullest analysis of all the facts known about it that has yet been presented in an English dress. Up to the date of these works all the alleged cases of the accident referred to had happened upon the Continent, and it is curious to notice the very opposite impressions they produced upon these two minds. Dr. Seaton says (p. 336):—

"None of the alleged cases have established, in my opinion, that syphilis has ever been imparted in the due and proper performance of vaccination—i.e., with the unmixed lymph of a genuine vaccine vessels. They are not even, in my opinion, at all conclusive as to this having been done by the inoculation along with the lymph of a small quantity of syphilitie blood."

Dr. Ballard (p. 355) sums up his elaborate disquisition thus:—

"1. There are numerous cases on record to prove that the vaccine virus and the syphilitic virus may be introduced at the same spot by the same puncture of the vaccinating lancet.

2. From several instances on record, there can remain no reasonable doubt that the vaccine virus and the syphilitic virus several instances on record, there can remain no reasonable doubt that the vaccine virus and the syphilitic virus have been considered to the vaccine and syphilitic virus may present, prior to being opened, all the normal and fully developed characters of a true Jennerian vesicle, as ordinarily met with . It is not satisfactorily setablished that in althe instances recorded in which the vaccine and syphilitic viruses have both been introduced at the seat of puncture, and produced their psecific effects, the syphilitic virus was derived from the interior of the vaccine vessicle. 5. There is reason to believe that the in a circumstance which increases very materially the chances of imparting syphilis to the child vaccinated with its lymph. I cannot go so far as to say that the admixture of such blood is the only condition under which infection can be imparted. I do not think that this is yet proved."

It is unnecessary to follow the line of argument adopted by these two writers. Now that the subject has come home to as, and its consideration is, as it were, forced upon the minds of all vaccinators, the portions of these two works devoted to it will, doubtless, be studied anew and with an interest which might previously have been wanting. We refer to them in order to asy that the opposing views adopted represent, as we think, very fairly the conflicting opinions of thoughtful British Practitioners up to the present time.

The grand argument as against the fear of a syphilitic inoculation in the performance of an operation for protection against small-pox, has been the fact that no instance of such a disaster has been hitherto proved as occurring in this country, where few infants escape vaccination, where revaccination is largely practiced, and where, had the thing been possible, our fuller elucidation of them for a future occasion. Admitting, then, as we now must, that syphilis and vaccinia are both communicable together by the same puncture of the vaccinating lancet, the grand practical questions are-first, whether the danger is such as reasonably to throw discredit upon vaccination as a popular practice; and, secondly, whether it is possible by any reasonable precaution to guard effectually against the chance of the danger of inoculating syphilis with the vaccine virus. There are various collateral questions, the previous determination of which is essential to a reply to these inquiries. We may cnumerate a few of them to show the extent to which the investigation may ramify :- 1. May a really healthy child, whose antecedents are beyond suspicion, become in any way the medium for conveying the virus of syphilis in conjunction with that of the vaccine disease? Dr. Ballard, in discussing the Italian series of cases, suggests one mode in which this may occur, without any blame reasonably attaching to the vaccinator. 2. Supposing the vaccinifer to be latently syphilitic, is it always possible to distinguish him from others who are not contaminated by hereditary syphilitic taint? 3. Is it a fact that, in the cases that are now on record the vaccine and syphilitic viruses were in any instance both taken from the interior of the vaccine vesicle? and, if so-4. Is it true, as maintained by the Lyons school of syphilegraphers, that the inoculation of the blood of the syphilitic vaccinifer, together with the true secretion of the vaccine vesicle, is essential to the communication of syphilis in the act of vaccination? 5. Supposing the last question answered in the affirmative, what is the explanation of the difficulty experienced in imparting syphilis (experimentally) by the inoculation of the blood of an infected individual, and the readiness with which a minute particle of blood, just sufficient to tinge the lymph from a vaccine vesicle, imparts syphilis to the vaccinated individual? 6. Apart from the mere question of bloodinoculation, is there any condition or stage of the vaccine vesicle upon a syphilitic vaccinifer, in which the danger of a syphilitic inoculation is greater than in other stages or conditions? 7. What is the explanation of the admitted rarity of the accident under consideration, keeping in mind the truth, as stated by Dr. Ballard the other evening, that notwithstanding the abundance of syphilitic vaccinifers, to all appearance healthy, and such as, at first sight, no one would decline to vaccinate from, and notwithstanding the frequency with which a little blood becomes accidentally mingled with the lymph obtained by puncture of a vesicle, millions of persons, infants and adults, have been vaccinated in this country without a chancre ever becoming developed at the vaccinated spot, so far as the experience of British practice has been recorded up to a few months ago?

All these questions, and probably others arising out of Mr. Hutchinson's and Mr. Thes. Smith's cases, must be boildy faced. A deep reeponability rests upon the Royal Medical and Chirurgical Society when undertaking to solve them. Happily, there are to be found among its Fellows the most acute and expected to the contraction of the con

rienced observers that the Profession can furnish, and also the most logical intellects. The Council may be fully trusted to make a selection satisfactory to the Profession, and such as shall command the full confidence of the public at large.

THE SMALL-POX EPIDEMIC.

Last week the largest number of deaths from small-pox recorded in London during the present outbreak was registered at Somerset House-namely, 288. Of these, more than a thirdviz., 108-were persons residing in, or removed to, the Hospitals from the Southern districts, an excess of 11 over the previous week; the North districts furnished 81 deaths, an excess of 3 over the previous week; the East furnished 51, an excess of 5 over the previous week; the West 30, an excess of 12 over the previous week; while the deaths in the Central districts alone exhibited a decline, from 22 to 18. The highest death-rate we learn, was observed in Somer's Town, Bethnal-green, Mileend Old Town, Southwark, Newington, Clapham, and Battersea; in the latter sub-district, of 31 deaths, 14 were referred to small-pox. The total number of deaths was almost three times as high as the largest number returned in London in any week of the several epidemics or outbreaks that occurred during the thirty-one years 1840-70.

Have we now reached the climax of the epidemic? May we begin soon to anticipate its decline? It has now lasted a good six months. It may be regarded as assuming a distinctly epidemic form in November, shortly after the mean temperature of the air had fallen decidedly below 50°. In the progress of the seasons we have now arrived at a time when this mean temperature is again reached. The mean temperature of the last three weeks, as recorded at Greenwich, has been 50°, 50.7°, and 49.7°. It is customary, about the second or third week in May, for some check in the consecutive weekly rises of temperature to take place, but after this, in the ordinary or average progress of events, the steady rise towards the summer temperature may be expected to set in, and with it there is at least a hope that the epidemic will begin to fade. The observations made at Islington, and published in one of Mr. Simon's late reports, seem to indicate May as the month of maximum small-pox, and the mean temperature of 50° or 52° as that below which the disease is in the habit of beginning to spread, and above which it is in the habit of beginning to decline. The largest number of fresh cases there was, on the average, observed in the twenty-first week of the year, immediately after which the number of cases fell suddenly and remarkably. We would not lay too much stress upon this observation, as it relates only to a limited number of recent years. Still, so far as the returns of fresh cases have come in to the Association of Health Officers, a decided decline was observed in nearly all the metropolitan parishes furnishing them last week. When the decline does set in, it will not be altogether contrary to experience to find it more sudden and rapid, at first, than the previous increase. But with a disease about the conditions of the epidemic spread and decline of which we know so very little even now, in these days of accurate observation, hopes and anticipations such as it may be pardonable to indulge in may after all be doomed to the most utter disappointment. In the years 1844, 1848, 1863, and 1866, the mortality from the epidemic commencing the previous year continued unabated, or but little abated, throughout the summer.

FEMALE PHYSIC.

Wx published a letter last week on the subject of "Female Physic" in Edinburgh, which is remarkable as an example of grotesque violence of vituperation and of the bitterness which the attempt to introduce women into Medical schools appropriated to male students is sure to induce. We think the female students in the wrong, but should be exceedingly soury to see them assailed by that kind of argument which is supposed peculiar to the irate female tongue. It must be confessed that the female students are in some respects entitled to our respect and—if we may say so without offence—to our pity. They are endowed with greater capacity and energy than most of their sex, and some of them deserve high commendation for the industry with which they have, when long past their teens, superadded the classics and mathematics to the finisher kind of education which they had acquired as girls. Then they cannot but be respected for wishing to lead useful lives, whether it be in order to earn fair resumeration or simply from hatred of doing nothing.

As for the Medical Profession, the notion is absurd that there is any jealous rivalry or fear lest pecuniary interests should suffer. What we object to is, in the first place, that women should take any course calculated to bring themselves into a false position-to lose that modest reticence which at present banishes the impure and the disgusting from the tongues of mixed companies of the sexes. In the next place, we have a right to demand that the Medical schools in which our sons are educated shall be free from an intrusion which is, to say the least, distasteful. He must be a bold man who should affirm that worse evils may not follow, if, in course of time, a large and coarser stratum of women were brought into the existing Medical schools. If women want a Medical school, let them imitate their American sisters, and have one of their own. No young men with good feeling would force themselves into the "Women's Medical College of Pennsylvania;" and although the pupils of this College are allowed to attend clinical lectures at the Pennsylvania Hospital, we are told, with some emphasis, in the report of the "Women's Medical College," that these lectures are separate from those given to the male studeuts.

THE WEEK.

TOPICS OF THE DAY.

HER MAJESTY THE QUEEN has been pleased to announce her intention to open the new buildings of St. Thomas's Hospital in the latter end of June.

The Council of the Royal Society have recommended fifteen candidates for admission to the Fellowship. Of these, four only are members of the Medical Profession—viz., Dr. W. Budd, Mr. G. W. Callender, Dr. Richard Quain, and Mr. John Wood. The recommendation of the Council is, we believe, tantamount to election, and we therefore offer our best congratulations to these geutlemen on their approaching honour. Amongst the names passed over by the Conneil there are some of deservedly high and wide reputation as scientific workers.

The convocation of the University of London met on Tuesday to choose the names of three gentlemen from whom Her Majesty is to select one to serve as Senator of the University, The name of Dr. Parkes was returned first, Mr. Waley second, and Dr. Weymouth, Doc. Lit., third. We are glad to say that Dr. Parkes had a large majority of votes in his favour.

The attack on Dr. Ratherford for the practice of vivisection in the Pall-mall Gazette was a very unfair and undeserved one. The writer, whoever he may be, is either guilty of wifful mis-representation or is exceedingly ignorant of the first facts of physiology. We supposed that no educated person now believed that a decapitated animal could feel, but it would seem that the editor of the Pall-mall Gazette requires to be convinced that sensation has its seat alone in the brain. In the lack of absolute proof, the Medical Profession can only tell him that there is just as much, and no more, oridence that a decapitated animal feels, as there is that a cholerate or the proper of the probably allow that the corpse of a decapitated formula being can have no feeling, but it is quite possible duman being can have no feeling, but it is quite possible

to set up movements of the same kind as those observed in the frog in the mackes of a rann who has been beheaded, by appropriate stimuli. All evidence, whether experimental or pathological, proves that sensation resides in the brain. Decapitated animals may move, but they do not feel. The decapitated frog or cel may be cut into segments, each of which will answer stimuli with lively movements; the decapitated bird will run or fly; but there is just as much reason for believing these movements to be accompanied by sensation as for believing that the cilitor of the Pull-Mail Gasette could have written the (to say the least) very foolish article on Dr. Rutherford in a state of somnambulism or under the influence of an anesthetic Vaccus.

We cannot but regret the fate of Mr. Goschen's Local Rating and Government Bills. They, with that portion of Mr. Bruce's Licensing Bill which was to regulate the granting of licences, have been withdrawn by the Government. Mr. Bruce hopes to save so much of his measure as will impose a stricter control by the police on public-houses. Mr. Goschen's Bills seem at least to have been the result of much painstaking inquiry, and although there was no chance of their becoming law in the form in which they were introduced, they might have been so altered and modified in committee as to have been the basis of a really useful and much-needed measure of social and sanitary reform. The compact organisation of brewers and publicans will very likely succeed in defeating all Mr. Bruce's attempts to remove some of the facilities and temptations to tipple. It seems, therefore, that the present Parliament will accomplish next to nothing to improve the hygienic condition of the people.

It seems, from the report of the recent meeting convened by the High Bailiif of Westminster at St. James's-hall, that the resistance to the impolitic attempts made by the present Ministry to filch from the ratepayers of London the land reclaimed by the Thames Embankment—which has cost them two millions of money—under the pretence that it is the property of the Crown, gathers strength, and is very likely to prove successful. It is curious that the chief opponents of schemes for giving the population health-resorts and pleasuregrounds should be found in the ranks of a Liberal Government.

Dr. J. Burney Yeo, of King's College Hospital, has been elected Assistant-Physician to the Hospital for Consumption at Brompton. The election was, we are informed, warmly contested.

In the case of Conduitt **. Soane, lately heard before Vicenancellor Wickens, two hadies, the grandshildron of Si John Soans, of museum celebrity, applied for a portion of his property, which was devised to great grandshildren, on the ground that their respective ages, 52 and 57, were beyond the age of child-bearing. The law deals with possibilities, not probabilities, and the Vice-Chaucellor, refusing to make an order, said that he had heard a case mentioned by the Master of the Rolls in which a child had been born when the mother was six years older than the younger applicant.

It is rumoured that the advertised vacancies on the staff of St. Thomas's Hospital will not be filled up until after the Hospital has been formally opened.

SMALL-POX IN HOLLAND.

Our Rotterdam correspondent sends us the following as the weekly returns of deaths from small-pox in the chief towns in the Netherlands during the weeks of the second quarter of 1871:—

	April t.	April8.	April 15.	April 22.	April 29.	May 6.
Rotterdam	116	108	88	100	87	80
Utrecht .	36	33	38	9	_	_
The Hague	26	31	31	36	_	-
Amsterdam	47	50	74	60	_	

THE ASCIDIANS AS REMOTE ANCESTORS OF MAN.

Dr. SPENCER CORDOLD, in one of the "Swiney" Lectures lately delivered at the Museum in Jermyn-street, discussed the supposed discovery by Kowalewsky of a vertebrate structure in the tail of the young ascidian-a point of interest at the present day, on account of the importance assigned to it by the evolutionists as evidence of a connecting-link between the fishes and the molluscs, and of the development of vertebrate animals from invertebrate. Only that day, however, a number of Du Bois-Reymond's Archie had been placed in his hands, containing a paper by Dönitz, in which the author undertakes to prove that all the notions of Kowalewsky and Kupffer are wrong, and that, in point of fact, there is no structural resemblance whatever between the tail of the larval ascidian and the notochord of the vertebrate animal. That there is a structural microscopic resemblance he is prepared to admit; but the whole history of development shows, he says, a complete and profound antagonism, and it is quite unjustifiable to assume from this that there is any genetic relation between the vertebrates and the invertebrates.

ANNUAL DINNER OF THE MEDICAL SERVICES.

IT will be observed, from our advertising columns, that the annual dinner of the officers of the Army, Navy, and Indian Medical Services takes place on Friday, the 26th inst., at 7 p.m., in Willis's Rooms. The chair on this occasion will be taken by the Director-General of the Medical Department of the Navy, who has, we are informed, invited the Presidents of the Royal Colleges of Physicians and Surgeons to meet the officers of the three departments. It is hoped that next year Sir J. Ranald Martin, as representative of the Indian Medical Service, will

PARLIAMENTARY .- THE BUDGET-LUNATICS (SCOTLAND) BILL-METEOPOLITAN FOOB ACT (1867) AMENDMENT BILL — DE. LIVINGSTONE — THE METEOPOLITAN FOOE — RABY-FARMING — INCOME-TAX BILL.

On Thursday, May 4, in the House of Commons, The discussion of the Budget was renewed by Mr. McCullagh Torrens, who, on the income-tax resolutions being reorted, moved to fix the rate at 5d. instead of 6d. After a ported, moved to fix the rate at od. instean or od. Artes a brilliant debate the House divided, when the motion was negatived by a majority of forty-six-294 to 248.

The Lunatics (Scotland) Bill was read a second time.

The Metropolitan Poor Act (1867) Amendment Bill was read

a third time and passed.
On Friday, in the House of Lords,

Earl Granville said that dispatches had been received that day at the Foreign Office from Dr. Kirk, the Acting British Consul at Zanzibar, containing information of the safety of Dr. Livingstone in October last. The Doctor was then at Manakoso, awaiting the supplies that have been despatched to him; his immediate wants appear to have been met by the

In the House of Commons, on the order for going into com-

mittee of supply,

Mr. W. H. Smith rose to call attention to the operation of
the poor-law within the metropolis, and to move an address the poor-law winnin the metropouls, and to move an accurred for a Royal Commission to inquire into the policy and adminis-tration of the law. In support of his motion, Mr. Smith ex-pressed a strong conviction that by shutting our eyes to the working and effects of the present system, and by mistaken his description of the present system, and by mistaken and held are present system and by mistaken the present system and by the present system and the pre kindness and charity, we had demoralised the poor, and had permitted an evil to grow up which was sapping the founda-tion of our prosperity. He described, under its different heads, the administration of the poor-law in London, dwelling on its want of uniformity, the facilities it gave for imposture, its cost, and the increase of pauperism which had occurred under it. With regard to Medical relief, he said that there was scarcely any part of the administration of the poor-law so unsatisfactory as the system of sick relief. At present it so unsuccessively as the system or suck rener. At present it papersised the applicant, who, though able and willing provide himself with everything except Medical advice and assistance, was unable to get that assistance without either becoming a pauper or burdening himself with a long Doctor's bill. Some amendment of the system of Medical rollef was needed which would enable the labouring poor to obtain Medi-cal relief as far as possible at some small cost to themselves, so that their spirit of self-dependence should not be destroyed even in the time of sickness. The system which had been successfully carried out in Ireland embodied this principle, and an inquiry into the metropolitan system would show the ab-solute necessity for its amendment, so that it did not result in pauperising the people.

The motion was seconded by Mr. Rathbone. Mr. Stansfeld promised to consider Mr. Smith's suggestion,

but he did not consider a Royal Commission necessary, as the Poor-law Board was competent to collect facts and evidence.

After a debate the motion was withdrawn.

Mr. Charley obtained a select committee to consider the best means of putting down baby-farming. On Monday, in the House of Commons,

The various clauses of the Income-tax Bill were agreed to without a discussion

The Lunatic (Scotland) Bill passed through committee.

On Wednesday,

On Wednesday,
On the motion of Mr. Charley, the following gentlemen were
appointed members of the Select Committee on Baby-farming:
-Mr. Selater Booth, Dr. Brewer, Mr. Jacob Bright, Mr.
Charley, Sir T. Hesketh, Mr. Illingworth, Mr. Kewm, Mr.
Charley, Sir T. Hesketh, Mr. Illingworth, Mr. Kewm, Mr.
Kinnaird, Mr. W. Johnston, Viscount Mahon, Mr. Melly,
Dr. L. Playfair, Mr. Raikes, Mr. R. Shaw, Mr. W. M.
Torren, Mr. Walpole, and Mr. Winterbother.

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the dermentioned Districts.

		No	o. of (Cases v	reek e	nding	
Districts.	April 1.	April 8.	April 15.	April 23.	April 29.	May 6.	May 6. Sent to Borrital
West-					_		-
Chelsea	6	4	9	9	9	-	
St. George, Hanover-							
square	11	12	16	19	23	14	7
St. James, Westminster .	4	8	8	6	2	8	- 2
Paddington	?	3	P	24	12	20	14
St. Pancras	44	122	102	121	89*	104	P
Islington	26	64	69	67	59	64	37
Hackney	29	31	1 1	46	30	l — .	_
CENTRAL-			1				
City of London	13	7	16	14	13	5	5
St. Giles - in - the - Fields .	8	1 2	111	2	14		
Holborn	3	4	8	8	9	5	4
St. Luke's	25	20	20	17	25	_	-
East-			1	1			
Whitechapel	15	19	14	17	23	7	P
Poplar	11	2	1 8	1 2		-	-
South-				1			1
St. Mary, Newington	23	27	34	37	47	25*	29
St. Olave, Southwark .	5	3	3	3	6	3	2
St. George-the-Murtyr,			1				1.5
Southwark	9	19	30	31	26	-	-
Lambeth	17	32	24	5	32	-	-
Clapham	13	40	28	23	32	29	5
Wandsworth	10	13	6	6	8	4	1
Putney	8	2	1		P		-
Streatham	3	4	7	2	P	=	-
Camberwell	4	1	2	1	2	-	-
Greenwich	-	-	2	P	-	P	-
Lewisham	2	4	P	P	P	-	
Plumstead	4	19	5	3	3	-	-

• Return imperfect.

By the last advices from Buenos Ayres, yellow fever was raging there fearfully, the death-rate being 700 per day.

At Valparaiso the foot and mouth disease was rapidly disappearing.

AT THE ROYAL ACADEMY.

Of all the cants which are canted in this canting world—though the cant of hypocrites may be the worst—the cant of criticism is the most tormenting.—L. Sterne.

LAURENCE STERNE is unusually severe on the mere dilletante critic, particularly if he criticises works of art. Though no competent judge of the true merits of a picture, I could not refrain from criticising, whilst strolling through the rooms of the Royal Academy some few pictures which have reference directly or indirectly to our Profession. We have no reason to complain that we have not received sufficient attention from artists in this year's exhibition. Taking the pictures in the order in which they are numbered, the first (81), entitled "Dr. Harvey and the Children of Charles I," painted by F. W. Yeames, represents the great discoverer of the circulation seated in a quiet, sheltered nook, while the battle of Edgehill is raging in the distance. He is absorbed in the perusal of a black-letter book, and is in the sitting position. The young princes taking advantage of his abstraction, have climbed up the side of the bank to obtain a view of the fight, with which they are evidently delighted. Harvey does not discover the danger of their position until the balls come whistling over his head. The picture is admirably painted, and, of course, the chief object of attraction is the great physiologist himself. He is dressed simply, with a light hat with a broad brim. Observers will fail to detect in the face before them those deeply marked lines of anxiety and thought which characterise the portrait in the Colloge of Physicians. He has a healthy and not care-worn countenance. He had not then been subjected to that merciless persecution of which he was the victim in after life. so embittered his last years. Covered by his hat, we lose sight of that splendid forehead which is pourtrayed with so much life-like vigour in his portrait in the College when so much me-size vigour in his portrait in the Conego library and in that interesting picture by Robert Hannah, of "Harvey Demonstrating the Circulation of the Blood to Charles I." The picture in the Academy, however, is one of great interest, and will arrest the attention of every member of our Profession who visits the exhibition.

The next in rotation (159) is thus described in the cata logue :- "The late Joseph Henry Green, Esq., D.C.L., F.R.S., Professor of Anatomy to the Royal Academy of Arts, Scnior Surgeon of St. Thomas's Hospital, President of the General Medical Council. To be presented by his widow to the new St. Thomas's Hospital, Lambeth. By J. P. Knight, R.A." There is no face in the whole collection, whether as regards its manly beauty or its expression of intellectual superiority, to be compared with that of Joseph Henry Green, though there are statesmen, great soldiers, and philosophers around. The high and expanded forehead, the clear, intelligent, blue eye, the nose of matchless proportions, the mouth and chin, form a face which those who have seen in life will admit to be truthful to nature. If we were inclined to be hypercritical and we are not-we might take exception to the expression of the mouth, which appears to us too small—too much, as it were, "pursed up." On the whole, however, it is a most pleasing performance. Mr. Green is in the sitting posture, with a performance. Mr. Green is in the sitting posture, with a closed book in his right hand—a volume, doubtless, of the works of his tutor and friend, Samuol Taylor Coleridge. It works of his tutor and friend, Samuol Taylor Colerique, It may be questioned by some whether Green was happy in the choice of his profession. No one can doubt he was a great philosophical Surgeon, that he was one we must all regard with admiration and affection, but his tastes were not for Surgery; he was a philosophical, an abstrase thinker, and in Surgery is was a philosophical, an abstrase thinker, and in the surgery is the surgery of the surgery in the surgery in the surgery is the surgery of the surgery in the surgery in the surgery is the surgery in that institution, the graphic power which he evinced in describing the symmetry of form, the anatomy of expression, the physical poetry of painting, might think that he would have been, had he followed the pursuit, one of the greatest ainters of the age. Others, again, who could call to mind his Hunterian oration, classic, learned, and eloquent, though some numerian orange, easset, earned, and ecquent, though somewhat obscure, might suggest that had be been a divine, his sermons, particularly on doctrinal points, might have placed him in the category of the Bossets, the Massillons, and Jeremy Taylors of the Church. We rejoice, however, in numbering him amongst ourselves; we could not afford to have

given him to either of the other professions.

No. 209 is thus described;—"Mr. Guy conferring with Dr.

Mead and the architect, Mr. Stear, upon the plan of the Hospital which he founded, and which has since borne his name. By C. W. Cope, R.A." The scene is laid in the shop of Guy, then a bookseller, at the corner of Lombard-street. The window is open; St. Paul's Cathedral is seen in the distance; Mead's carriage, with his coachman in rich livery and cocked hat, are in the street; an earnest-looking youth is conning over the books for sale at the open casement. The shop in which the owner for many at the open casement. And snop in which the group are scaled is simply a bookshop. Guy is the centre of the three figures. His face is shrewd, thoughtful, with no great intellectual development, but evidently earnest in a great cause. On his right stands Mr. Stear, the architect of the Hospital, a good, plain, not unintellectual face. To the left, and in the foreground, sits Richard Mead, the most learned, the most accomplished, and the most munificent Physician of his time. His fine manly face and form are depicted with admirable power. The artist has evidently studied with minute accuracy the portrait of this remarkable man. The gold cane, which Mead inherited from Radcliffe as well as his practice, Mead holds in his hand with the air of a courtier. That cane, descended from Mead to others who occupied the foremost positions in the Profession, is the text on which Dr. McMichael founded one of the most interesting biographical works ever published, entitled "The Gold-headed Cane." Is this cane still to be seen in the College of Physicians? We hope so; for it is one of the most interesting emorials of men who were an honour to their Profession. Mead seems somewhat amused at a waiting-maid, who comabout seems somewhat amused at a watern-hand, who completes the group, handing in what may be regarded as the dinner of the penurious, but munificent, founder of Guy's Hospital. "The meal" consists of half a red-herring, a piece of bread, and half a pint of (possibly) "Thrale's entire"; yet at this very time the self-denying bookseller was giving in the cause of suffering humanity a sum equal to half a million of

the present value of money to found a charitable institution.

We come now to 260 in the catalogue, and this picture is thus described:—" Doctor Goldsmith (E. M. Ward, R.A.).— 'The only instance remembered of his practice was in the case of a Mrs. Sidebotham, described as one of his acquaintances of the better sort, whose waiting-woman was often afterwards known to retail with what a ludicrous assumption of dignity he would show off his cloak and his cane as he strutted, with his queer little figure stuck through as with a huge pin by his wandering sword, in the sick-room of her mistress. At last it one day happened that, his opinion differing somewhat from the apothecary in attendance, the lady thought her apothecary the safer counsellor, and Goldsmith quitted the house in high indignation.'—Vide Forster's 'Life of Goldsmith.''' Upon Upon looking at this picture one is almost inclined to regret that the costumes of that day are now obsolete. "Poor Goldio," as Dr. Johnson used to call him, appears to disadvantage in the controversy. But he is dressed in a superb cloak, and coat and brocches of gorgeous purple. Even the "apothecary" is attired in what appears to be a black velvet "aporticedary is attirted in what appears to be a black vertex util, with amognificent tie-wig, and holds up a draught attitude of the state of the state of the state of the physic. We fail to perceive in this remarkable picture that ugliness which is said to have characterised the countenance of poor "Goldle." If he were so ugly as his biographers have stated, that even as an usber of a school the mistress dismissed stated, that even as an usher of a school the mistress dismissed him "as a pock-marked specimen of bunnaity," the picture before us fails to give us any evidence of such a fact. Indeed, the artist has pourtrayed Goldsmith as really a "good-looking fellow." Why did not Goldsmith succeed in the practice of the Profession which he had chosem—be had learning and, to some extent, ability as a Doctor? "Poor Goldie" wanted "tact." The author of the "Vicar of Wakefeld," of "She Stoops to Conquer," and the "Chinese Letters" was "no-where "amongst women who were not of the chamber-maid or courtexan class, telepant with them, but silent, abashed, and the profession of the chamber control of the chamber can be approximated to the chamber can be a supported to the chamber can or courtexan class, telepant with them, but silent, abashed, and any and the courter of the chamber can be could be a supported to the chamber can any any could promy as we may not any with such that diffuse a man who could pourtray human nature with such fidelity as he did should have failed in his intercourse with the very men and women that he so successfully depicted. He is only one of a number of able and learned men that have succumbed to the same cause.

Two members of the Profession who are still amongst Two members of the Profession who are still amongst us have their portraits in the Royal Academy. Charles Murchison, M.D., F.R.S., etc., painted by S. Fearce, figures 1100 in the catalogue.

The other portrait to which we have referred is that of Robert Lee, M.D., F.R.S., painted by the same artist.

Both these portraits are very able productions. If any fault is to be found, it is in the somewhat overshadowing of

the nose of Dr. Murchison, and the absence of some of the lines of thought in the countenance of the great "obstetriarch." No. 1186 is a marble bust of Professor Owen, faithfully and

happily pourtraying his features and expression.

We had almost forgotten 312—a deputation to Faraday, to request him to become President of the Royal Society. This picture is a disappointment. Faraday we should not have known but for the description in the catalogue; the face and form have no one characteristic of the original. J. F. C.

THE ANNUAL ORATION

DELIVERED REPORT THE

MEDICAL SOCIETY OF LONDON,

By WM. CHOLMELEY, M.D., F.R.C.P.

(Concluded from page 524.)

"Is one of these cases nine rittle of full had been exeausted at once—a practice which be did not recommend. The other eight fatal cases all had air as well as fluid in the chest. The greater proportion of the cases that did well were children." Dr. Davies did not advocate operating early. After April in that year this subject drops out of the Society's records, and we know that more recent authorities opposed the operation; but when Treusseau revived its use in France, he mentioned but when Treusseau revived its use in France, he mentioned operation there is little in favour was not without good effect." In May, 1817, Dr. Chutcheuke stated that "he had one.

In May, 1817, Dr. Clutterbuck stated that "he had once witnessed the operation of bronchotony performed on an infant in crosp. The difficulty attendant upon the performance of it was anflicient to his mind to deter anyone from again attempting it." In November, 1819, it noted that "Dr. Blicke had performed the operation on a shill of years of age, and had inflated the lungs by means of a syringe. The patient died of convulsions some hours after." But he had also operated, with success, on a child with croup. Mr. Andree asserted "that, some years before, he had performed the operation of tracheotomy for the first time in this country." I need not tracheotomy for the first time in this country." I need not recommend the integration of tracheotomy for the succession of the Society on this operation. It is still a frequent subject of discussion in our societies and our journals, and we may elain to have made marked advance in the mode and time of operation, and in our knowledge of when it is likely to be successful.

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But more often one meets with records of successful modes of treatment, which, after a while, dropped out of favour or knowledge, and have been brought forward again more lately. Thus, in 1815, Dr. Lettsom reported that during a Professional visit to Hertford, he found "that in that neighbourhood carbonate of ammonia was considered quite as a soveriging remody in searlatina. Physiciana there were astonished at its success; it was given in five-grain doses every four or six hours." And again, in 1816, Mr. Edwards stated that he had "always given the carbonate of ammonia in acarlet forer, and never knew it fail. He gave five grains every four bours; to an infant or child, two grains. It generally subdued the fever in

forty-eight hours; after which he gave bark." At the same meeting, however, it was reported that Mr. Houghton, of Huddersfield, in all forms of the disease bled once or twice to six ounces, and gave salines; and that \$\delta \epsilon\$, too, was uniformly successful. Take another instance: in 1812, Mr. Bateman stated that "he had seen Dr. Pearson, at St. George's Hospital, use large doses of opium, with diluents, and doses of salts, with good effect in acute rheumatism;" and in 1814 Dr. Lettsom good effect in acute rheumatism;" and in 1814 Dr. Lettsom reported that "he had lately given opium very freely in cases of acute rheumatism, after having well cleared out the towels, with infinite advantage." In the same year decection of bark with turpentine was strongly recommended in acute rheumatism, and it was also "mentioned that some of the common people resorted in cases of rheuma-tism, lumbago, and sciatica to cod-liver oil, one table-spoonful every night, with great effect." Of both these instances—of the treatment of scarlet fever by carbonate of instances—of the treatment of scarlet fever by carbonate of ammonia, and the treatment of acute rheumatism by optium—if ammonia, and the treatment of acute rheumatism by optium—as a scarlet of the standard that drug that is now again in great repute. Mr. Balmain says that in 1795 dysentery was prevalent in a highly aggrasays that in 1795 dysentery was prevalent in a nignly aggra-vated and very fatal form; that he had found the ipsecuranta, given in small dosea, always useful, but that he was informed by a Mr. Wentworth that, "while he was serving his appren-ticeship, a man who lived in the same town where he did was frequently called upon to administer relief in cases of the flux, and, from being uncommonly successful in the cure of it, his nostrum was eagerly sought after by all persons in the neigh-bourhood. At last it was discovered that the man's father (who had been a soldier in the wars in Germany, and often dangerously afflicted with the dysentery) used the powder of ipecacoanha in doses of a drachm and a half to two drachms, with the addition of some drops of the tinethre opii, and never found it fail in curing him." Mr. Wentworth had given ninety grains, with forty drops of tinet, opii, in an apparently hopeless esse of the disease, and with complete success. Mr. Balmain followed this mode of practice, and "gave the ipecaccanna frequently to the quantity of two drachms, with the addition of sixty drops of tinct. opil, and, in many cases, found that a dose or two was sufficient to remove every dangerous appearance, and that afterwards, by a due attention to the proper use of restoratives, the cure in a number of instances was completed."(a)

But there is one means of combating disease, the history of which, as read in the records of your Society, is still more remarkable. I thought before I looked through the minutes of the meetings of the Medical Society of London that I had a tolerably good idea of the frequency with which bloodletting was used by our Professional forefathers in the treatment of disease: but I must confess that I was astonished at what I think I may not unfairly call the universality of its employment, and at the extent to which it was in some cases carried. At one time it seems to have been had recourse to in almost At one time it seems to have been had recourse to in almost every disease, and in every form of every disease. One thing is, however, still more surprising than this, and that is the shoulate—I had almost said the abject—abandonment of the employment of the same remedy of late years. And I venture to say that no theories of change of type of disease or of de-terioration of constitution in our patients suffice to explain or justify this abandonment. But bloodletting was greatly over-used. It was felt to be a very powerful remedy; it was people at hardon and striking. ready at hand and of easy application; and so it was extra-vagantly used and misused. And this was almost inevitable; for, paradoxical as it may sound, may it not be said with truth that a crowning and most clenching proof of the usefulness and power for good of a thing is that it comes to be misused, and perverted into a power for evil? And then comes a reaction against its use, and the good it has done, and may again do, is apt to be forgotten or denied in face of the vivid appreciation of the evil it had been made to work. Thus it happened with regard to bloodletting, and especially with regard to venesection; and the recoil has been so great that, partly in consequence of reaction in the Professional mind, and partly from subservience to popular prejudice and outery, it has come to pass that we hardly dare to relieve a labouring heart, conges-

(a) Vide "Memoirs of the Medical Society of London," vol. i., p. 210.

tion of lungs, or of other viscera, by the abstraction of an amount of blood which we over and over again see lost by epistaxis or some other form of accidental hemorrhage, without the loss raising a thought of danger or mischief; and I fear we now and then allow a patient to die whom the lancet might have saved. There have not been wanting lately, howmight have saved. There have not been wanting latery, now-ever, signs of a return to a more guarded, intelligent, and scientific employment of bloodletting; and with the help of such guides and teachers as Dr. Richardson and some others, this new reaction will, I think, gradually spread and gain force. I am tempted to gather from the Society's Minutes three examples of the former employment of venesection—the first on account of the large amount of blood taken with apparent

Denent.
In November, 1819, "Mr. Morley related a case of hæmoptysis, attended by Dr. Cholmeley, of Guy's Hospital (a relative of mine own), Mr. Chevalier, and himself. The patient was a gentleman, 60 years of age. Within the space of twenty-two days, eighty-seven ounces of blood were load by expectoration 254 by venesection, and sixteen ounces by cupping; and this treatment was aided by the strictest antiphlogistic regimen. Yet, when the case was reported, the patient was perfectly well, with the exception of some degree of ptyalism, caused by the administration of calomel towards the termination of the attack.

The two other cases I quote, not so much to show the free use of venesection, as because they appear to somewhat resemble what we now call "railway shock," and the success that at-

tended their treatment seems very suggestive.
"In February, 1825, Dr. Clutterbuck related the case of a military gentleman, who, while hunting, about twelve weeks before, being thrown from his horse, fell flat upon his back. Having recovered from the shock, he remounted, and experienced no inconvenience; but three weeks after this event he experienced a numbness in the lower extremities, and some stiffness renced a numbrose in the lower extremistics, and some summer about the head and neck. The muscles concerned in deglutition and mastication were affected to that degree that the patient wallowed and masticated with difficulty; the iris was somewhat contracted, and but little impressed by light; the pulse was slow and weak; the tougue furred. The patient felt much difficulty in turning in bed, and could not grasp anything with effect. Respiration and digestion were well performed, and the bowels acted as well as usual. He was treated by stimulating remedies, without advantage. He was treated by stimulating remedies, without advantage. Dr. Clutterbuck advised small and repeated bleedings, and aperients, and with apparent benefit." Dr. Haslam then related the case of a gentleman "who, in riding, fell from his related the case or a gentleman "who, in riming, ich involves horse. For a few seconds he was unconscions, then venited, and was somewhat relieved. For a fortuight afterwards he seemed in excellent health; then began to be unusually vivacious, sleepless, and had numbness of the left arm. Was bled coplously. A state something like delirinm occurring, was combated by venescction, and always with success. He was bled copiously eighteen or nineteen times, and at length perfeetly recovered.

I must not further extend these therapeutical notes, or I might show how eager the Society has always been to notice might show now eager the Bootety has always been to notice only addition to our weapons against disease. I might quote might be a supplied to the supplied of the supplied of the inflata, nux vomics, strychnia, and other medianies, and show how the Society's attention to therapeutics has continued down to our own days, when Dr. Samoon has brought before us his carbolates, and Dr. Richardson has introduced to the nettice of the Profession, through the Society, the bromides of quinine,

of morphis, and of strychnia.

The first Fothergillian gold medal was founded by Dr. Lettsom, in 1784, and the subject selected for the first competition was, "What diseases may be mitigated or cured by exciting particular affections or passions of the mind?" for the best essay on which the medal was adjudged in 1787 to the ones ceasy on water the most was adjudged. In 167 to Dr. William Falconer, of Bath, a Corresponding, and very diligent, Member of the Seciety. In 1790 it was awarded to Dr. Robert Willan, for the best dissertation on "Cutaneous Discasses," and the original manuscript of this cessy—the counstation of William work on diseases of the skin—now forms one of the treasures of your library. In 1791 the medal forms one of the treasures of your library. In 1791 the medial was carried of by Dr. Lettom himself for the best dissertation is answer to the question, "What are the principal distribution of the preventing or curing the asme?" to which was required to be added, "The history of the epidemic constitution and diseases of some great towns for one whole year at least." After that date I do not find that any of the essays sent in on the various Evchergillian prise subjects were considered worthy of the medal till the year 1801, when it was awarded to Dr. Bowttatz, fer his paper "On the Medicinal Effects of Phos-Bowttat, rer nis paper "On the Medicinal Effects of Phorus." The present Fothergillian medal was founded by Dr. Anthony Fothergill, who died in 1816; but the moneys that he left for the purpose were invested in America, and the "law" a delay" so effectually intervened, that not any of it was received by the Society till the end of 1821; nor the remainder received by the Society till the end of 1821; nor the remainder till May,1822. The first subject selected was "Dropsy," but no easay was found deserving of the prize; and it was first awarded, in 1824, to Mr. R. W. Bampfield for the best csay "On Diseases of the Spine"—a beginning of orthopædie Surgery. It is on the Spine — a beginning of orthopedia Sargery. At is unnecessary to give you here the names of the Fothergillian gold medallists since that date. A list of them is published with the annual list of the officers and Fellows of the Society, and you will find that it contains the names of men well known and highly distinguished in the Profession at large, as well as in the Society. Besides the Fotherzillian and the silver medals, the Society now and then awarded extra and special medals. I have already mentioned that in 1804 a gold medal was presented to Dr. Jenner; and in 1793 Dr. Lettsom offered, through the Society, to give twenty guineas, or a gold medal of that value, for the best essay in answer to the question, "What diseases are most frequent in workshops, poorhouses, and similar institutions; and what are the best means of preventing or curing them?" In 1795 the prize was awarded to Mr. John Mason Good, Surgeon, then a Fellow of the Society, and so well known since, as Dr. Mason Good, for his valuable work on Medicine

work on Medicine.

This is one of the many proofs that these records contain of the interest taken by your Society, even in its earliest days, in questions of public Medicine. Dr. Lettsom's Fothergillian Essay, in 1791, on the "Principal Diseases of Great Towns," is another; and about 1793 or 1794 he contributed a valuable paper on the diet, exercises, bedding, etc., of the prisoners in Newgate. He was led to write it by the observations and inquiries he had made while attending Lord Goorge Gordon, which was not to be a support of the contributed of the prisoners of the fourth volume of the Society's Memories. In 1796 and 1797, Dr. Jaines Jehnstone, of Worrester, and Dr. Anthony Fothergill, of Bath, directed the attention of the

In 1796 and 1797, Dr. James Jehnstone, of Worrester, and Dr. Anthony Fothergill, of Bath, directed the attention of the Fellows of the Society to "the persions effects of dry-grinding in the needle manufactory." Dr. Johnstone a paper, published in vol. v. of the Society's Memoirs, is called, "Some account of a Species of Pithisis Fullmanlis poculiar to Persons employed in Fointing Needles, in the Needle Manufacture," and gives a clear description of the disease and its causes; describing how the minute particles of iron and stone are by inspiration drawn into the lungs, and excite continued and increasing irritation, "by which the suppurative irritation is gradually produced, which at length ends in ulceration." He tells us how deadly the dry-grinding was, the operatives rarely reaching the age of 40, and that its dangers were so well known that "parents, in binding their children to the needle trade, for the most part condition that they shall not be employed in this pernicious branch of the manufactory—the grinding or pointing of the needles;" and he advises the use of crape or gauze hoods to prevent or lessen the inhalation of the dust, and the use of water to moisten the hands and the overheated needles. some very modern papers on the diseases caused by dry-grinding contain much more information than this? May we speak of this, and of some other instances already mentioned, of what I may perhaps call modern rediscoveries or rehabilitations, as-

"-Winds
Of memory murmuring the past"!

or of the older papers as examples of-

"—Presentiments,
And such refraction of events
As sometimes rises ere they rise"?

In 1803, the then prevailing epidemic of influenza very largely occupied the attention of the Society, and, wishing "to collect for publication a complete history of the disease, and desirous to ascertain whether the epidemic be contagious or not, and to collect such meteorological observations as will throw light on the natural as well as the Medical history" of it, they addressed a circular letter, containing thirty queries to their Corresponding Members in the country. This letter, with fifty-eight answers to it, "published without alteration or comment." may be read in vol. vi. of the Society's Memoirs. It is interesting to be told that "their lordships, the Postmasters-General, in answer to an application made to them, considering it as a matter interesting to the community, and in the hope of the information obtained proving eventually of benefit to the human race, have with the utmost liberality consented that the correspondence upon the specified objects of these queries shall be carried on free of expense, provided that the replies to them be sent, addressed to the Medical Society of London, in letters not sealed, under cover to Francis Freeling, Esq., London."
In those days of heavy postage, this was no slight boon, and it may be looked on as a testimonial to the status and repute

of the Society

In 1807 I find an instance of the evil of what newadays we call "baby-farming." During a conversation on the various mischiefs arising from intemperance, "Dr. Sims mentioned that a woman in the country had been in the habit of taking in children to nurse, who generally in about a month died. On inquiry being instituted, it was discovered that she gave them a teaspoonful of brandy whenever they cried." On one even-ing in May, in the same year (1807), the Society amused itself with discussing what seems a very curious habit, if it was a habit, of the day: "Dr. Sims called the attention of the Society to some observations in the Times newspaper on the impropriety of putting brandy into the shoes when wet; and the evening was devoted to a discussion on the subject. The President and some of the Fellows thought that much advantage might and some of the relieves thought that much advantage might arise from the stimulant property of the spirit. Dr. Clutter-buck quined that cold would be produced by the evaporation, and the water that was left would keep up the cold. Dr. Pinckard suggested that the greater "degree of cold which Pinckard suggested that the greater "degree of cold which the spirit caused would excite greater reaction; and hence the benefit." Mr. Lewis said that the spirit applied to the akin rendered it a non-conductor; and the President further re-marked that he thought, "while the water would be absorbed by the system, the spirit would not be." It does not appear from the minutes that any of the ingenious debaters spoke from

a practical knowledge of the matter they discussed.

The subject of contagion was frequently before the Society, The subject of contagion was frequency octors the society, and in March, 1811, in the course of a debate on "Scarlet Fever, and its Contagiousness," Dr. Hamilton observed "that he thought contagious diseases were often spread by washing the linen of infected persons promiscuously with that of others."

I need not remind you that this source of the spread of disease has excited much attention lately. Of course, pulmonary con-sumption and its treatment are frequently mentioned in these minutes of the Society's Proceedings, and digitalis is strongly recommended for its effect in lowering the pulse and lessening recommended for its effect in lowering the place and isseming fever and cough. And I must notice a remarkable communica-tion, in 1812, from Dr. Walker, of Leeds, "On the Varieties of Pulmonary Phthisis." He says—"I have for many years been led to make a material distinction in classing phthisis pulmonalis and in distinguishing the truly inflammatory from the scrofulous consumption. When, in florid habits, the disease arises from obvious causes—such as a preceding harmoptysis, pneumonia, or catarrh—the case is in general attended with inflammatory diathesis, and requires a treatment suited to the innaminatory canness, and requires a treatment sensed to the cause. But in scrofulous habits, in whom the disease creeps ou insidiously and slowly, without any violent symptoms of any kind, the debilitating plan of cure, under the idea of inflam-matory tubercle, seldom succeeds, and I have in such cases found a moderate allowance of bland preparations of animal food once a day, and mild restorative tonics, agree well

In the minutes of the meeting on February 21, 1814, a ca is noted which may be regarded as essentially one of right hemipleria with aphasia. "Dr. Pinckard mentioned the case of a young lady, 18 years of age, who suddenly lost all power of motion and speech. She remained eight weeks without recovering the loss of speech, and regaining very little use of recovering the loss of speech, and regaming very little use of the left side. The case was extremely distressing, inasmuch as she had not the power of expressing her wishes through any medium of communication. She died, and on examination of the head a very large abscess was found extending along nearly

the whole surface of the left hemisphere.

In 1807 mention is first made of rheumatic pericarditis. Dr. Sutton "mentioned several cases of the heart being covered with cosgulable lymph in persons who had died, some of fevers and one of rheumatism." And in 1814 Mr. Powell related a case of disease of the heart from rheumatism. "There had been hæmorrhage from the lungs, dyspucea, and palpitation. The heart was found to be three times the ordinary size, and

there was much water in the chest."

In May, 1820, "Dr. Uwins briefly adverted to the new method of Diagnosis in Thoracic Diseases recommended by M. Lacanec

And in December, 1823, a paper was read from Dr. Forbes, of Chichester, "On a Case of Diseased Heart, with the Appearances on Dissection, and Remarks tending to show the advantages to be derived from the use of the Stethoscope."

It would be impossible for me, without completely exhausting your patience, to enter at all fully into the numerous discussions held by your Society on the "Vitality of the Blood," on the question of the circulation within the cranium, ou fever, question of the circulation within the chantain, of ever, inflammation, pertussis, erysipelas, ovarian dropsy, purperal fever, epilepsy, mania, delirium tremena, and so on. I must be content with little more than the bare mention of them. Naturally, in a Society of which Dr. Clutterbuck was for so many years a very active and eminent member, the cause of fever and the treatment of disease by venescrition were very frequently tonics of conversation. Thus, in 1818, there were repeated debates on the " prevailing epidemic of fever " and its treatment, and Dr. Clutterbuck and some of the Fellows insisted on the necessity of free venescetion; but others recommended modes of treatment much more akin to that followed in the present day. One gentleman mentioned "the case of a young lady with delirium, dry brown tongue, subsultus tendinum. etc., who took a bottle of port wine every twenty-four hours, for some days, and got quite well." Mr. Leese "relied on nitro-muriatic acid, topical bleedings, if the head was much affected. and occasional purgatives, and found this treatment very sucpractice, "with sometimes porter and an opiate at night."

Dr. Clutterbuck was ever ready as the champion of the lancet. In 1836 he read to the Society a paper to prove that delirium tremens is a disease of the character of slow inflammation, and requires bleeding and other antiphlogistic treatment, and not opium. He met, however, with general opposi-tion and dissent. He insisted, also, that hydrophobia is essentially an inflammation of the brain, and must be treated by venescetion, digitalis, etc. And so late as the year 1840 he declared "that in most cases, in 99 per cent., spasmodic asthma depends on an excited action of the mucous membrane, and that the greatest advantage is to be derived in its treatment by repeated small bleedings of from five to eight ounces." And "he mentioned the case of a young lady with pure asthma, who had vainly tried all kinds of scdatives and anti-spasmodics, but was completely cured by small and repeated bleedings was supported by some of the Fellows, but Drs. Bennett, Theo-philus Thompson, and Marshall Hall insisted on the existence of a purely spasmodic form of asthma, to be treated by belladonna, conjum, inhalation of vapours, etc. In the same session Dr. Clutterbuck read an ingenious paper on "Counter-irritation as a Remedial Agent," written to show that a very large proportion of our remedies—purgatives, emetics, and even bleedings, acted as counter-irritants.

In 1832 and 1833 cholera, of course, claimed a large share of the Society's time, and in the latter year Dr. Tyttler, by special invitation, expounded his theory that the undoubted cause of

cholera was the use of deteriorated rice.

In 1843 I met with the first suggestion of the change of type hypothesis. Mr. Proctor, one evening, "inquired whether diseases generally had not changed their type during the last two or three years. He had observed that scarlatina had changed its character, and required a different treatment. Mr. Dendy observed that he had been led to think that an asthenic diathesis prevailed, as during the occurrence of cholera."

Nor may I venture to occupy any more time in showing, as so easily could be shown, how there is not a department in the whole wide field of Medicine which has not been often brought before the Society, and that by the most eminent workers in it, and how the successive communications on the subjects treated of, and the discussions on them, have marked or foreshadowed the improvements and the progress our science and art have made. The few notes I have made of the and art have made. The few notes I have made of the Society's work in its early years must suffice to show the character and value of its labours in those days, and I must trust to your memories for an appreciation of its busy and fruitful sessions in recent years.

The perusal of these volumes of records of the proceedings

of your Society gives rise at first, I think, to feelings of depression and disappointment. Finding that during the latter part son and unsappointment. Finding that during the latter part of last century and the beginning of this the Fellows of the Society were occupied with questions which occupy us still, discussing problems in the science of Medicine which remain unsolved problems still, and are to this day discussed in our societies and our journals, and perplexed by doubts and diffi-culties which are doubts and difficulties still, and still perplex us, the reader gets depressed and despondent; he doubts whether Medicine has made any progress, or, at the best, feels sadly that indeed

"Science moves but slowly, slowly, creeping on from point to point ".

but, on reading steadfastly on, the reward comes in a growing and ever-strengthening conviction that

"The thoughts of men are widened with the process of the suns," and that real and great progress has been made. It may be too true that we cannot yet tell what fever is, but, at any rate, you will not now hear it said, as was said by a Physician in your Society, in 1817, that "whether there is such a disease as society, in 1817, that "whether there is such a disease as typhus, as a specific form of disease, is not yet determined"; nor will you find an emineut Physician ready at all times to prove that "all fevers have their prove that "all fevers have their cause in inflammation of the You will not, as in 1834, hear one Physician declaim against morbid anatomy and the stethoscope, and a second dedare that he too "cannot see what light has been thrown on the treatment of disease either by the study of pathology or the use of the stethoscope." Nor will you hear, as in 1841 your Society heard, a paper written by one Physician to prove that "most diseases her consist in inflammation, or are consequences of it, more or less remote"; and another, so eminent as was Dr. Jas. Johnson in his day, state that, "although long anxious to discover an universal cause of disease, he had hitherto failed, but that the longer he lived, the more convinced he became of the truth of the opinions maintained in that paper." He believed that ninety-nine cases of disease in the hundred depended, more or less directly, on inflammatory action, "that pulmonary phthisis, neuralgias, etc., all originated in inflamma tory action, that gastrodynia is an inflammatory affection of the nerves of the stomach," and that to say, as Dr. Theophilus Thompson had just said, that it might be cured by such drugs as stramonium, was simply absurd. And an opponent of this doctrine could scarcely now be found to support his opposition by the statement that "he could not regard hydrothorax as the result of inflammatory action, because effusion did not take place in children who suffered pleuritis." Need I go on? Did time permit me to draw upon the records of your meetings in recent years, it would be easy to adduce proof upon proof of our gains in knowledge, of our advance in science, and to show how diagnosis has become more clear and precise, prognesis more confident and trustworthy, and treatment more scientific, more onneath and guided by knowledge of the nature and more based on and guided by knowledge of the nature and causes of disease, as well as on the empirical knowledge of the effects of remedies. But I need not regret that want of time forbids my doing this, for a knowledge of the more recent proceedings of your Society, and knowledge of the progress of Modicine are the common property of youall. And I do not doubt of your concurrence when I affirm that the Modical Society of London has had no small share in stimulating and fostering that progress. Of all the impressions derived from the perusal of the minute books, so often referred to, the most vivid, the deepest, the most lasting, is the impression of the great value of this Society, and of the great work it has done. Established when Medical societies were so few that it stood almost alone, when Medical works were-compared to our times-rare and expensive, and Medical journals scarcely existed, and when modes of communication were few and slow, it must have been of incalculable value as a means of diffusion of knowledge, a medium of interchange of thought, experience, and criticism. Esta-blished as a great catholic Medical society in days when the branches of the Profession were marked out by hard-and-fast lines of separation, and the Physician, the Surgeon, and the general Practitioner were parted off in practice to a degree that we can hardly comprehend, it would be difficult to overestimate the service this Society rendered by providing a com-mon ground of meeting, where each branch of the Profession might learn from the knowledge and experience of the others, and be taught to feel its own deficiencies of education; and yet were all bound together by mutual respect and good fellowship. In this way our Society has been prominent and powerful among the influences which have gradually, by a levelling up process, welded the Profession into a more combined and equalised whole; so raised the education and status of the general Practitioner, and widened and deepened the Professional learning of the Surgoon and the Physician. recognition of part of this change may perhaps be well illustrated by a rather amusing note from the Society's records. At the end of 1834 a paper was read by Mr. Dendy, on "The Internal Canses of External Diseases," and during the discussion which followed, Dr. Shearman contended that the doctrines set forth followed. Dr. Shearman contended that the doctrines set forth were not novel. "Much," he said, "of what is called present under the consideration of the Physician alone, while the Surgeon was merely employed in making local applications; but the Surgeon had gradually learned the art of the Physician alone, while the surgeon is the surgeon was a secience of his own spician, and then wanted to promulgate it as a science of his own spician, and then wanted to promulgate it as a science of his own spician, and then wanted to promulgate it as a science of his own spician, and then wanted to promulgate it as a science of his own spician and then wanted to promulgate it as a science of his own spician and then wanted to promulgate it as a science of his own spice. discovery.

But, Mr. President and gentlemen, if this estimate of what this Society has been and has done is at all true, a great trust has been handed down to us who are now its Follows, a weighty responsibility lies upon us; and the Profession at large, and the public, so deeply interested in all that concerns the advance of Medical knowledge, have a right to require an account of our stewardship, and to ask us what we are doing with the honour, the fame, and the power of this Society.

I believe that we can face any such inquiry with clear con-science and good courage. There have been, undoubtedly, periods of lessened vitality, of stagnation, of partial decay even, in our Society-what society has not suffered such periods !- but I venture fearlessly to assert that, as it was in its early days, so now, the Medical Society of London is a great catholic Society of Medicine. As earnest workers in the various departments of Medical science have multiplied they have longed for more room and consideration for their special fields of work than this Society could afford them, and hence other and special societies-Medico-Chirurgical, Pathological, Epidemiological, Obstetrical, Clinical-have gradually around us; an inevitable result, and the strongest proof of the enlargement and increase of knowledge. But still to us come workers in each and all of these departments. This Society workers in each and all of trose departments. In Southern still receives communications from all, and gives them the best and truest of welcome—the welcome of carnest, informed attention, and frank, skilled criticism. Is proof of this needed? The great variety and large scope of the communications brought before the Society, and the discussions on them during the last few years, or even the work of the session just ended. Take but a very short and imperfect list of the mubjects brought before the Society of late years, and of the men who have brought and discussed them:— Snow on the Inhalation of Medicines; Snow, Richardson, and

Sansom on Anæsthetics, their Uses and Dangers; Forbes Winslow, Maudsley, Harrington Tuke, on Mental Affections; Radcliffe, Russell Reynolds, Anstie, on Epilepsy, on Diseases of the Brain and Nervous Disorders; Risdon Bennett, Sibson, on Pericarditis; Hassall on Sarcina Ventrienli and the on Percarditis; Hassaii on Sarcina ventricui and see Sulphites; Garrod and Fuller on Gout and Rheumatism; Hyde Salter on Asthma, Dyspacea, Tracheal Dysphagia, and on the Nature and Cause of the Respiratory Murmur; Edward Smith on Alcohol; Hare on the Diagnosis of Tumours and Enlargements of the Kidney; Cockle and Leared on the Sounds of the Heart; Richardson on Fibrinous Concretions in the Heart, the Synthesis of Disease, Urmmia, the Peroxide of Hydrogen, the Nitrate of Amyl, etc., etc.; Druitt on the Philosophy of Cancer; Druitt, Barnes, Tilt, Marion Sims, on Uterine Affections; Hancock and Gay on Internal Strangulation; Hancock, and Bryant, and Gant, on Excision of Joints; H. Smith on Trache-otomy; Gay on a New Method of Treating Ulcers, on Varicoso Veins, on Intestinal Obstruction by Bands; Canton on Arcus Senilis; Hunt, Tilbury Fox, on Diseases of the Skin; George Johnson, Sir Duncan Gibb, M. Mackenzie, and Francis Mason on the Laryngoscope; Sansom on the Ophthalmoscope; Anstie on the Sphygmograph; Murchison on Hydatids of the Liver; Handfield Jones, Althaus, Habershon, Thudichum, Broadbent, yourself (Mr. President), Thorowgood

Inumentum, Broadent, yourset (Arr. Pressurett), Anorwayood, Symes Thompson, all have taken part in the work done, and I might swell the list to almost any extent.

Or consider the variety and character of the subjects brought before us in the session just closed. You, Mr. President, have pre-eminently among others, as before, helped to sultings and resider more precise on those selected the different forms of Pulmonary Phihiss, and given us most valuable papers on Perityphilits, and Peribronchial Fibrosis. Thudi-chum, Sanson, Richardson, have brought the Germ Theory fully before the Society. We have had Surgical papers from Mr. J. D. Hill, Mr. Tevan, and Mr. Manuder; and "Clinical Mr. J. D. Hill, Mr. Teevan, and Mr. Maunder; and "Clinical Experiences at the Seat of War" from Thudichum; Ophthalmic papers from Mr. Spencer Watson and Mr. Jabez Hogg; Therapeuties from Richardson and Dr. Prosser James; Aural Surgery by Dr. P. Allen. Orthopædic Surgery has been represented by Mr. Adams and Mr. Brodhurst; Treatment of Skin Disease by Mr., Adams and art. Frontiers: , Fraction to Sait Disease by Ersamus Wilson; Midwifery by Da. Brunton; Medical Chemistry by Dr. Meymott Tidy; and various Medical questions have been treated of by Drs. Althaus, Macpherson, Brunton, Sansom, Carpenter (of Croydon), Semple, Criep, and Douglas Powell. Add to this the Lettonnian Lectures and the work of our Clinical Half-hours.

Surely this is enough to justify the assertion that the Medical Society is rar' tloxiv, the Society of Medicine of London; and we who have now the honour to be Fellows of it, while we look back with just pride ou its past career, feel bold to hope that our successors will allow that we have not suffered its honour to be tarnished, its fame to be diminished, or its strength and usefulness to wane and lessen; and looking onwards to its future we feel a confident assurance of the fulfilment of our loyal wish, Florest semper,

REVIEWS.

Affections of the Throat and Larynz. By ARTRUR TREMERN NORTON, F.R.C.S., Assistant-Surgeon and Surgeon in charge of the Throat Department at St. Mary's Hospital; Lecturer on Anatomy in the Medical School. 8vo, p. 39. London: Robert Hardwicke, 192, Piccadilly.

ALTHOUGH in the vast majority of instances it may be true that a great book is a great evil, the converse proposition that a small book is little good can hardly be maintained with respect to the brockurs now before us. In 150 consecutive cases of affections of the throat and larynx which came under the care of Dr. Sieveking and Mr. Norton in the throat department of St. Mary's Hospital, nearly every disease was exemplified.

Mr. Norton contributed to the Lancet in 1870 a series of short papers, of which the present volume, with some few alterations papers, of which the present volume, with some low alternations and additions, is a reprint, describing the several symptoms which characterised each disease, together with the treatment adopted and the results obtained. He has also given short reports of cases which, from complications or from some deviation from the ordinary course of symptoms or treatment, have a special interest. Those Practitioners who have hitherto been deterred from employing the laryngoscope, on account of the anticipated difficulties of its application, may acquire by compliance with Mr. Norton's short, simple, and thoroughly practical instructions, in a very few efforts, such an amount of manipulative skill as will place the laryngoscope as a means of physical diagnosis quite on a level in their estimation with the stethoscope, of quite on a level in their estimation with the sectioscope, or which, indeed, it has already become the almost indispensable adjunct, in cases in which the existence of an intra-thoracio tumour is suspected. On such cases, however, Mr. Norton, of tumour is suspected. On such cases, however, Mr. Auton, or course, does not touch, as his subject limits him to those in which actual disease of the throat or larynx has been detected, either with or without the aid of the laryngoscope. It is an interesting fact that, of the 150 cases recorded by Mr. Norton, interesting fact that, of the low cases recovered by air, across, thirty-eight, or more then 25 per cent. were complicated with, and probably due to, syphilis. The general principles of treatment are indicated in a few practical words in the abstracts of cases, and we have no doubt that Mr. Norton's little book will, cases, and we have no doubt that Mr. Norton's little book will, if for this reason alone, be useful not only to students but to Practitioners. Mr. Norton, by giving the details of chronic cases in which persevering treatment for several months was necessary, shows that he honestly desires to tell the truth, and not to give the conteur de rose view, which too often deceives both Surgeon and patient.

Rheumatism and Rheumatic Gout, treated on Antiseptic Principles. By James Dewar, M.D., Kirkcaldy. Edmiston and Douglas, Edinburgh. (Pamphlet.)

Dan Dawa for some time past has directed his attention to the antiseptic properties of sulphinrous acid as a disinfectant. "It has long been resorted to," asys Dr. Dewar, "as a remedy of unquestionable ability. It is used as a domestic cure for simple atlineate in all parts of the world, and with marvellons uniformity as to result; but its more definite employment in really proposed effections is not less interesting, while it is followed. The object of this *Archave* is to prove the good effects of the acid in cases of rheumatism and rheumante gout, and the author narrates eight cases, selected from a great number, in which the acid appears to have been of very remarkable and

which the acid appears to have been of very remarkable and decided benefit. The cases comprise instances of the disease in all stages, and of various degrees of severity. The dose administered varies from forty minims to a dessert-spoonful,

administered varies from forty minims to a deserri-sponasus, and is given every two, three, or four hours.

Some cases are recorded of boys who presented themselves to the author with symptoms of rhetumatic fever. In these cases, in addition to the internal administration of the remedy, the joints were awathed in list soaked in sulphurous acid, and covered with guttapercha. The cases are told simply, plainly, and without unnecessary detail; but they are of such a character as to convince us that the acid is deserving of a more standal tail. We strendt work recommend our readers to make extended trial. We strongly recommend our readers to make use of it in one of the most troublesome and difficult complaints which present themselves to us. Dr. Dewar says, in a private

ncte to us, that he believes the careful use of sulphurous acid will "preserve vegetable substances in the original natural state, and "preserve vegetable substances in the original natural state, and this unchanged, in spite of the season of the year. Potators, for instance, are but a transient provision, and it is only the coaner qualities which keep after the month of May; but by my plan all attempt at aprouting is prevented, while the tabers are effectively preserved, and that without nignry to their flavour. I simply immerse them, jackets and all, in subplarous and and the state of t navor. I simply immerse tient, jackets and all, in suplatious acid and water. I have had some thus for a month, and they are very nice, only requiring a little longer boiling. The point to be ascertained evidently is, how far the solution can bear to be diluted without the risk of the water becoming decomposed, and this can only be done by observation; but once settled, I believe that many other articles of food could be successfully subjected to its action."

Annuario delle Scienze Mediche, riassunto delle più importanti Amongro ditle Science Medicke, reasonate delle pri importanti Indélégation dell'Anno. Per l' Dottori P. SCIUTARDI O G. 1731. Anno I.—II., 1870. Published 1871. Milano, Roma, Napoli, Palermo. Varbole of Medical Science, culled from the most important Pub-lications of the Year 1870. By Drs. P. Sciutzanta and G. Pixi. 1871., Milan, Rome, Naples, Palermo. 12mo. Pp. 260.

We welcome with pleasure quite unfeigned the appearance of this handy and useful little book. The tenuity of its propor-tions does not allow it to give full effect to the amount of talent distributed in Italy, but it will serve, it may be hoped, to draw attention to much that would otherwise be overlooked and might chance to be misprized. We are tempted to wish it were wholly devoted to Italian Medicine. This, however, is not the case. It is compiled with spirit and with judgment, and is truly a charming little volume.

NEW BOOKS, WITH SHORT CRITIQUES.

Analytical Tubles for Students of Fractical Chemistry. By J. CAMPBILL BROWN, D.Sc. Lond., F.C.S., Professor of Chemistry and Toxicology at the Liverpool Royal Infirmary School of Medicine, and Lecturer to the Liverpool School of Science. London: J. and A. Churchill. Liverpool: Adam • • • A set of trustworthy chemical tables is a desideratum.

Those drawn up by Professor Abel for the use of the officers

Those drawn up by Professor Abel for the use of the officers of the Boyal Artillery and Engineers and the cadets of Wool-wich, were admirable to far as they went; but, being arranged enough. For simplicity and clearness they could be hardly excelled, and any set of tables arranged on a similar scheme, but carried further, and modified to suit changes in nomenclature and new discoveries made since their last issue, would scarcely fail to be extensively useful. Such a set we have before scarcely iait to be extensively userut. Since a set we have second us. They have much of the clearness of Abel's, with much greater fulness. Thus, in addition to the rules for the examination and separation of solutions of the ordinary metals and their compounds, there are the fullest details for preliminary their compounds, there are the fullest details for preliminary examinations that we have anywhere seen; a table for the examination of gases, and detailed instructions for the recog-nition of organic acids and bases, with methods for the separa-tion of the latter from each other. Taking them for what tion of the latter from each other. Laking them for what they profess to be—viz, tables; or, in the modest words of the very brief preface, "notes by which to follow and recall to mind the demonstrations"—we think they are decidedly the best yet issued, and recommend them to Medical students especially, as likely to be of great service.

School Epidemies: especially Scarlet Fever. By a PRACTICAL NUBSE. St. Leonard's-on-Sea: Published by E. Winscom, 18, Grand-parade. Price Fourpence; 3s. 6d. per dozen.

*. This little pamphlet may be useful in impressing on the general public the fact that the various secretions may be general pulms the ract that the various secretions may be vehicles of contagion, and in nrging them to take the precut-tions necessary for dealing with each secretion. In this the author shows much ferminine seuteness, but some of her precautionary measures, such as burning green wood, to fill the sick-room with vapours of pyroligneous acid, are inferior to others in general use, and are likely to be delusive. Carbolio acid and brimstone fumigation seem to find no place in her

Clinical Report of the Lying-in Hospital, Dublin. *.* This important report is a reprint from the Dublin Quarterly Journal of Medical Science, which has already been noticed in this journal. Investigacoes estatisticas sobre as Doenças e Mortalidade do Exercito Portuguez no periodo de seis annos e meio, descorridos do 1º de Jullio de 1861 ate 31 de Dezembro de 1867. Pelo J. A. MARQUES, cirurgião de brigada, chef e che então era do 6º Reparticão da 1ª Direccão do Ministerio da Guerra. Lisboa. 1870.

Statistical Investigations upon the Diseases and Mortality of the Americal Investigations upon the Dissessed and Mortality of the Portiquess Army in the period of Six Fears and a Half from July 1, 1861, to December 31, 1867, inclusive. By Dr. J. A. Marques, Surgeon of Brigade, late Head of the 6th Repartition of the 1st Direction of the War Ministry. Lisbon.

1870. Pp. 125.
• • This statistical work has been thrown back a whole year. It seems to have lain ready for publication at hands of Government a twelvemonth earlier. A andden fit of retrenchment, extinguishing among its various reforms the army statistical department, led, as is sufficiently notorious, to a political convulsion of no ordinary character in Portugal. It would appear, then, that they excellent work we are here considering would have lapsed altogether but for the public spirit of Dr. Marques, who has at his own cost and expense undertaken the issue. We draw attention to a few data that may serve to stimulate curiosity. In the effective force the general mortality is 12-2 per 1000. With an army of 21,000 men, the loss by death and invaliding through phthisis 6°25 per 1000 effective annually; and this is pro-bably not the whole truth from various sources of error quoted. The deaths occurring from phthisis, or rather from tubercles, pulmonary, and meemteric, are exactly estimated at 32 of effective force. Of cases of pulmonary tubercless diagnosed in military Hospitals, these amount to 74 of 1000 effective, or 1869 cases per anum. Of these, out of a garrison of 1800 men. Oporto sends one-sixth, or a medium proportion of 186 per 1000 effective annually; and Lisbon, with 5000 in garrison, sends one-third, or 11 per 1000 effective, while the country garrisons show only 5.2 per 1000 annually. The same disproportion between town and country districts formerly noticed, as regards the disease, has been maintained, and phthisis does not seem to be on the decline within the ranks.

FOREIGN CORRESPONDENCE.

HOLLAND.

ROTTERDAM, May 9.

THE SMALL-POX EPIDEMIC IN HOLLAND.

In the Medical Times and Gazette of February 25 last I gave some figures of the deaths from small-pox. The official returns for the first quarter of the year are now published; I have based my table on them. The first column contains the principal cities of Holland, and London, to which our mortality is to be compared; the second column, their population; the third, fourth, and fifth, the mortality from small pox of each month; the sixth, the total and the small-pox mortality of London till March 31; the seventh column states the small-pox mortality in 10,000 inhabitants; the eighth, the mortality from all causes (including still-born) in 10,000 lnhabitants; and the ninth, the mortality in 10,000 inhabitants after the deductions of the small-pox mortality.

	l'opula- tion Jan. 1 1871, and London estimated popula- tion in	Mor	tality f	mm 8	ntality from nall-pox in 10,000.	alify from all ses in 10,000.	ality, without all-pox mor- y, in 10,000.		
	middle of 1871.	Jan.	Feb.	eb. Mar. Tota		Br	Mort	Mor	
Rotterdam	123,097	205	314	470	989	80	180	100	
The Hague		392	350	201	943	101	180	78	
Utrecht	60,587	162	197	183	542	89	188	98	
Amsterdam	281,805	42	112	170	324	11	863	72	
London	3,258,469		***	***	2370	7.21	67	59	

The small-pox mortality on April 1 was 2396; the mortality from all causes, 22,089, which numbers, reduced to March 31, are 2370 and 21,867.

This table gives us several causes for meditation. 1. The enormous mortality from small-pox. Now, already the ciphers To Rotterland are greater than any of those in my rotic wo the last ninety years, (a) and although the increased population is to be considered, it is already evident that the greatest mortality will be surpassed, even inconsideration of the increased population, and that in a city where vaccination was first

(a) Medical Times and Gazette, May 6.

practised in Holland, and where the most arduous vaccinators dwell, but whose endeavours are partly made powerless by bigotry and nonchalance. The difference between the small-pox mortality of the cities of Holland and London is very great (from eleven to fourteen times greater); and though Amsterdam makes an exception, the epidemic is yet steadily increasing there. 2. The mortality from all causes of death is very great; but (3) also, after deduction of the deaths from small-pox, there remains for the cities with great small-pox mortality a much greater quantity of the other causes of death than in Londen, where the small-pox mortality was not so great. Now, it is probable that, under the unbetter death, there are many which are the consequences of small-Now, it is probable that, under the different causes of pox; but, in general, we see here a confirmation of what I would almost call a law—that, wherever an epidemic rages, would never the the never that the control of the c mortality from other causes of death. The smaller mortality from the other causes of death in London is an argument against those who, in favour of their opinions against vaccination, are wont to say that, where there had not been smallpox mortality, there would have been an equal mortality from other causes of death.

GENERAL CORRESPONDENCE.

MERCURIAL TREATMENT OF LEPROSY. LETTER FROM DR. F. PORTER SMITH.

[To the Editor of the Medical Times and Gazette.] SIR,-For some years I have been treating the tubercular and mixed cases of leprosy, so common in China, in much the same way as Dr. Beauperthuy, and with some decided snecess.

Small doses of blue pill, combined with a little opium, and

continued for some weeks, have led to the healing of those sores upon the feet so offensive and embarrassing to the sores upon the test so offensive and offensives for patient. The use of a lottion of sulphate of copper has generally been combined with the mercury, and intrate of silver has also been rubbed upon the ulcers which occur upon those points which are subject to pressure or injury. It is very important to distinguish between the sectionals stores, blisters, etc., produced by incautious contact with external objects, fire,

boiling water, etc., and the peculiar sores met with upon the limbs. I am, &c., F. Porter Smith, M.B. Lond. May 6, 1871. (formerly of Hankow, China).

VACCINO-SYPHILIS. LETTER FROM MR. W. B. KESTEVEN.

[To the Editor of the Medical Times and Gazette.]

Sin,—The lamentable catastrophe announced by Mr. Jonathan Hutchinson, at a recent meeting of the Medico-Chirurgical Society, cannot fail to excite the alarm of all who are in the practice of vaccinating from the ordinary sources of supply of lymph.

I confess to being one of those whom you stigmatise as having exercised "a perverse ingenuity in explaining away not merely the mass of foreign testimony, but that afforded by the few and isolated cases on English soil, especially that lately brought before the Clinical Society." Allow me, however, to observe that what you have called "perverse ingenuity" I am still disposed to maintain was nething more than legitimate caution against the admission of insufficiently supported cases declaring a danger that had not been seen by those in England who have been most largely engaged in vaccinating. The alleged "cases on English soil" are not on record.(a) After the frightful reases on Engines son are not necessary and return in internal int fact, while it removes incredulity as to the possible conveyance of syphilis in vaccine lymph, must effect a revolution in the practice of vaccination; for who, after such an occurrence, will dare to trust to any vaccinifer the whole history of whose antecedents he does not possess? And who can confidently affirm that he can attain to the whole antecedents of

(b) "Nederlandisch Tydschrift von Geneeskunde." 1868. Part 2, p. 289.
(a) See Dr. Ballard on "Vaccination." p. 309.

any individual vaccinifer? There is every probability that, where the parents of an infant are well known to the vaccinator, he may seem to be quite safe; but after the facts that have now been adduced, some fear or misgiving must be felt in every instance.

If to have recourse to calf vaccination be our only safeguard

there should be no besitation about it. No amount of trouble or inconvenience should be allowed the slightest weight against the fearful risk of contamination for a life by a disease scarcely

less destructive than that against which protection is sought.

Who can tell, for instance, the end of the cases of vaccino-

syphilis now under consideration?

I protest, however, against the misuse of their warning. All that has happened gives no additional weapons to the opponents of vaccination, it only proclaims the care that should

taken in operating.

Under all circumstances, considering the countless multitudes who have received the benefits of Jenner's discovery, the wonder is that this lamentable catastrophe has not been more often known to have occurred. The more marvellous and inexcusable the oversight if it be ever allowed to occur again.

I am. &c. W. B. KESTEVEN. I am, &c., Holloway, May 9.

THE UNCERTAIN ACTION OF VAPOROUS AN. ESTHETICS LETTER FROM MR. LEWIS THOMPSON.

[To the Editor of the Medical Times and Gazette.] SIR,-It is now well known that vaporous ansesthetics produce upon human beings very uncertain effects, and that these effects sometimes lead to fatal results from unexplained causes. Permit me, then, to point out to the Medical Profession a

remut me, then, to point out to the attendal Profession a source of variation, and even of danger, which has hitherto been overlooked in the employment of these anesthetics. What chemists call the "tension of vapour" is merely a What enemies can the constant of the disposition of any particular fluid to take on the form of gas; and this tension, or disposition, varies with the temperature of the liquid and the height

of the barometer.

But vaporous anæsthetics all depend for their activity upon this disposition to become gas, or, in chemical language, upon "the tension of their vapours," which, as I have stated, varies with the temperature and pressure of the atmosphere, so that the inhalation of any given anæsthetic might be perfectly safe with the thermometer at 60° Fabr. and the barometer at thirty-one inches, but inevitably fatal with the thermometer at 80° and the barometer at twenty-nine inches. Nevertheless, this important circumstance has not yet been taken into account in the administration of vaporous anæsthetics.

It would be no way difficult to construct a table giving the elastic force or tension of any definite fluid or fluids, if the Profession at large would once fix upon the kind or kinds of

anæsthetics to be employed generally.

Thus, sulphuric ether at 60° Fabr, and thirty inches of the barometer expands two parts of air into three, and forms therefore, at that temperature and pressure one-third of the

air inhaled into the lungs of a patient.

Under the same circumstances, chloroform expands fourteen parts of air into fifteen, and, consequently, the vapour of chloroform constitutes one-fifteenth part of the air inhaled; and, from data of this kind, tables might be constructed giving the amount of atmospheric expansion for every degree of Fahrenheit between 32° and 100°, and in tenths of an inch for every variation of the barometer between twenty-eight and thirty-two inches; or the same thing might be arrived at by what is called the "wet and dry thermometer bulb," now used to indicate the hygroscopic state of the air. By pouring upon the wet or covered bulb of this instrument a little of the ansesthetic in question, and noticing the reduction of temperature, we ascertain at once the amount of danger connected with the administration of the anæsthetic, or, in other words, the quantity of air required to be mixed with it to insure

As a general rule, the more volatile the fluid the greater will be the variation in its effects from changes in the atmospheric temperature and pressure, and, consequently, the greater the caution required to produce and maintain any given condition in the patient operated upon.

It certainly would be an advantage to the public if the Medical Profession would fix upon any given instrument and anæsthetie, and use these alone. That there is at present

much confusion and discord cannot be denied, and in proof of this I myself confess that I do not exactly comprehend what this I myself confess that I do not exactly comprehend the is meant by the term "bichloride of methylene," though I presume it means bichloride of methyle ether, and not the bichloride of the hydrochlorate of methylene, which would be

in effect the same thing as chloroform. I am. &c.,

FEMALE PHYSIC AT EDINBURGH.

[To the Editor of the Medical Times and Gazette.] Srn.—The Scotsman of the 8th inst. quotes a letter signed "M.D.," which appeared in the Medical Times and Gazette of the 6th, as "helping to show what manner of men in sense

and taste are some of those who resist the study of Medicine by women. I have no desire to defend the tone of the letter in question

I have no desire to detend all, only on the plea that one would hardly think of cutting blocks of wood with a razor.

With all due respect, then, for an "enlightened public," I would bid them remember what the promoters of the Medical would bid them remember what the promoters of the Medical education of women keep, and have throughout this discussion purposely kept, in the background, viz.—that the Medical Profession, as such, does not oppose the Medical education of women per ss, but only in mixed classes. It resists, as their legitimate trustees, the breaking up of all old educational institutions by the introduction of a new, an untried, and probably deteriorating influence. It would have new wine put in new bottles. It would have women educated, in the first place for the Profession in conversate sub-lack their care. place, for the Profession in separate schools of their own, and, these succeeding, it would then, in its opinion, be time enough successing, it would then, in its opinion, be time enough to consider if their amalgamation might tend to the mutual advantage of both, as well as to that of the public. These founds Medical schools must over their organisation, however, to those who have faith in their future; it is too much to expect help from the Medical Profession, who, though perhaps best neap from the medical Profession, who, though perhaps best qualified to form an opinion on the subject, have, as a body, no such faith. The Medical Profession in Edinburgh, moreover, resents—and this probably explains, though not excuses the tone of "M.D.'s" letter-the attempt to turn their position by a flank movement more adroit than honest. The University School of Medicine, with the due amount of knowledge, wisdom, discretion, and (let me add) gentlemanly honesty and fairness, was the proper court to appeal to and, if necessary, by all legitimate means, to influence towards a favourable decision. The appeal there being, after mature deliberation, rejected, a sensational one was thereupon made to an institurejected, a sensational one was thereupon induc to an institu-tion with a large and miscellaneous constituency, possessing none of those qualifications requisite in a special jury, before which alone such a case can obtain a fair and impartial trial. Let the promoters of the Medical education of women treat alike the question and the public fairly and honestly, and I shall guarantee the Profession doing not only the same, but doing it with a sense and delicacy satisfactory even to the fastidious taste of the Scotsman, who will, perhaps, kindly trans-I am, &c., cribe also this letter.

THERAPEUTICS.

[To the Editor of the Medical Times and Gazette.]

Sir,-In Guiana, as soon as her child is born, the Indian mother washes the baby, rolls it in the cradle, and goes about her business as usual. But the husband is pleased to consider himself very ill, straightway taking to his bed, where he is waited upon by the women with the most solicitous attention. In some districts the sick husband has to take nauseous drinks and undergo a course of unpleasant medicine

This anecdote from "Wood's Natural History" was recalled to recollection recently, when a woman stated that in two pregnancies, although she escaped, her husband up to

quickening suffered from morning sickness.

Curious it is to read that candidates for the Army Medical Department in certain tribes, instead of a Professional examination, have to undergo, without flinching, a series of frightful tortures, such as hanging from hooks inserted in the small of the back, or having a finger chopped off without winking ; and as there are no parochial appointments, the unsuccessful, and as there are opinions approximates and the uniform, merely a skin and a hideous mask, appears chiefly went at the bedsder, and the general principles of treatment mainly consist in beat-ing a big drum and howling, the noble savage somewhat in-clining to the opinion of Voltaire (and, I am afraid, of Dr. Wilks), that occasionally Physicians pour drugs of which they know little into a body of which they know less I am, &c., BANGALORE.

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

TUESDAY, MAY 9. MR. CURLING, F.R.C.S., President, in the Chair.

RENEWED DISCUSSION ON VACCING-SYPHILIS. THE discussion on cases of Chancre following Vaccination, which had been adjourned at the last meeting of the Society when Mr. Hutchinson's paper had been read, was resumed by The President announcing that the Council had determined

The Prestrext amouncing that the Council use well as on appointing a committee, and that Mr. Hitchinson had provided a supplement to his paper.

Mr. HUTCHINSON said since last meeting certain important tests had been brought under his notice. Of the former cases facts had been brought under his notice. Of the former cases reported, where nine persons were affected, all except one took mercury on the ninth week; all did so on the twelfth week; in all instances the sores were then healing. No skin rash had then occurred. On the fourteenth week all the sores were healed; some cicatrices were hard, but the size of the axillary glands had diminished. None had sore throats. No well-characterised syphilitic rash had occurred. Dr. Lamprey, Surgeon of the 67th Regt., had sent him certain drawings of superficial ulcers in two infants. Local inoculation of pus had probably taken place in these cases, but the sores were nonsyphilitic. Others had also come under his notice. Dr. H. Fagge had sent a drawing of ulcers open nine months after vaccination. Other ulcers had, in this case, formed on other parts of the body. The case was suspicious, the ulcers having undermined edges, etc. Mr. Hutchinson did not, however, undermined edges, etc. Mr. Hutchinson did not, however, ithink it spyhilitic, as two others of the same family had similar ulcers from falls. This probably arose from struma. There was in these cases no regular rash. A woman, aged 30, came to Blackfriars with a syphilitic rash coming out a fortalght after raccination. There was, however, in her case a supparating ulcer on os uteri. Another group of cases had come under his notice since the last report. They were made out by Mr. W. Tay. Two children had been vaccinated, and the sores did the structure of the str The vaccinator gave name and address of vaccinifer; also of other cases vaccinated from the same subject. The vaccinifer other cases vaccinated from the same supject. The vaccinite was a bys aged 7 months (at the date of vaccination, 4.) His eruption. He had smffled a great deal, and a single small condylomatous patch about the anus, which had not been noticed, had just healed. All the children vaccinated had not yet here seen. Mr. Nettleship had seen some. Several of them had suspicions sores after being vaccinated, and spots of doubtful character followed; two had done well. From one of Mr. Tay's patients lymph had been taken, but it was not possible to trace this.

Mr. HENRY LEE, in resuming the discussion adjourned from and the second of the second o child itself, were previously, as far as could be ascertained, free from any specific disease. The father had, however, died of consumption within the last few months. He had had gonorrhoea, but no syphilis. The child now was emaciated, had copper-coloured eruption on its nates, sores on the angles of the mouth, and sealy cruption on the head. The glands in the axilla, on the side on which the vaccination had taken place, were enlarged and indurated. On the opposite side there was no enlargement of the axillary glands. Having seen the case no enlargement of the axillary glands. Having seen the case to-day for the first time, he (Mr. Lee) would not undertake to to-day for the first time, in G.H. Are with the database of give a decided opinion with regard to it; but as far as he had ascertained, the evidence was complete of some poison besides the vaccine having been introduced into the child's system when it was vaccinated. He had seen three suspicious cases altogether—one in 1863, nine weeks after vacci-

nation; the sore was indurated, but no secondaries followed. Another, not long ago, occurred after revaccination; it had every appearance of an indurated chancre. The induration went away without specific treatment. The third case was Mr. T. Smith's, reported to another society. It was not a ar. a. cannas, reported to another society. It was not a nocessity that the axillary glands should be enlarged, as had been proved in the Rivalta cases. He had no sympathy with the sentiment that the gentleman in whose practice the cases occurred was to be pitied. He had acted most honourably, for henceforth no one would dare say syphilis has been given if no chancre has been formed on the spot. The danger of mis-takes must be allowed for and provided against. Inflamed arms searce must be allowed for and provided against. Inflamed arms were not very uncommon after revuecination, and corpuseles might be taken from them, and so introduce inflammatory action to the person vaccinated. Two great rules arise—the lymph only should be taken; the base should never be interfered with. He narrated a case where lymph was taken from

fered with. He narraced a case was a range of the cone having small-pox—cow-pox alone was produced.
Mr. Hukus: At the last meeting Dr. Drysdale made a statement as to the vaccination of a syphilitic child, and that I spinitte cand, and use the tactuation of a symittee cand, and use I spinittee cand, and use Dr. DETERALE said a woman, deaf and dumb, brought a spinitite child. He wrote that it should be vaccinated, but that no lymph should be taken from it. She informed him that others had been vaccinated from it. The Hospital to

which it was sent was St. Bartholomew's.

Mr. T. SMITH said there was no vaccination carried on at St. Bartholomew's. The whole facts were unworthy of credence. In reply to Dr. O'Connor, Mr. LEE said he could not state how long the gonorrhoa had lasted in the instance he referred to.

Mr. Coopen Forster usually required the presence of secondaries to prove syphilis; but in the cases he had seen the sores on the arms were hard; the glands were enlarged, and in none had time elapsed for well-marked secondaries to appear. Most likely they would be masked. Nevertheless, these people had syphilis; he had seen no more unmistakable sores.

Dr. Anstre had arrived at the conclusion that there was no Dr. Ansite had arrived at the conclusion that there was no sore characteristic of sphilis, and that there was no evidence to make these cut to be syphilitic. The sore was not the only thing. There was no kind of gland-hardening which might not be simulated by non-specific lesions. Secondaries were different. The plan of appointing a committee was satisfactory; it ought

to watch these cases for a long time.

to watch these cases for a long time.

Dr. Althaus did not see why secondaries should not be as plentiful as in ordinary cases. Waller, of Prague, investigated the matter as far as inoculation of blood was concerned. He showed that the cases went quite as ordinary ones; the secondaries were unmistakable.

Mr. BERKELEY HILL did not think the transference of syphilis had been clearly proved; nor did he think there was any dis-tinctive syphilitie sore. He hoped that certain non-believers in vaccinal syphilis would be added to the committee. He did not think the secondary symptoms would be light. Medical non-inoculated did not suffer so. Was one of those vaccinated the source of the syphilis f
Mr. Maunder thought there must be many men who could

ALT. HALVEUER HOUGHT INFO must be many men who could tell whether a sore would be followed by secondaries. Two varieties of hard sores were recognized, and these now discussed were the most characteristic. He asked whether the glands had been painless or were inflamed.

Mr. Bawzett thought they were wandering; the question was
—Can spyhllis be communicated by vaccination? Pure jumph
is probably innocuous, even when the vaccinifier is sphillite.
Turbid lymph and blood might introduce many diseases. We
ran a danger in all cases, except the vaccinifier was distinctly
pronounced from the many sphilis. He thought some mean might
be used to prerent entrance of white blood corpusales into tubes.

Mr. Smon brought forward a suggestion that the whole subject should be referred to a special committee of this Society, and moved that it be referred to such a committee to pronounce on the best means of securing safety in vaccination.

Dr. BALLARD seconded.

This was found to be against the rules of the Society, and was referred to the Council.

Mr. WEEDEN COOKE asked if there might not be something in the child itself to give rise to those symptoms.

Dr. EDWARD BALLARD thought the paper could be looked at both scientifically and practically. Scientifically, it confirmed what had been done on the Continent, and reflected credibility npon these researches and accounts. Some had tried to account npon these researches and accounts. Some had tried to account for these Continental cases by ordinary causes and accidents, such as foul tubes and general filth. Now, our insularity will be satisfied by this heap of cases, and we shall, perhaps, believe that there is something in the view that syphilis and vaccinia can be given together. Mr. Hutchinson had hinted that the syphilis had been communicated to the eleven infected through the blood, but there was no evidence as to when the blood of the vaccinifer began to flow; in fact, it was not known. Nor did the paper state the condition of the vesicle, for on the eighth day the vesicle, not always the same, may be clear or opaque. The latter should never be used. An inflamed vesicle may be more dangerous guest the communication of syphilis than one not inflamed. Looking over the history of vaccinal syphilis, it seemed most capricious. It was impossible to believe that bloody lymph from syphilitic children had not been used millions of times in England, and yet Mr. Smith's was the first case proved in this country. In Pelizarri's experiments made with syphilitic blood, out of three only one succeeded; there the blood was warm, in the others cold. In Sebastian's cases two children were vaccinated from a syphilitic child. A chancre appeared in one spot only; and at that spot alone blood had been inoculated with the lymph. In Pelizarri's successful blood-inoculation a large quantity of blood was used; and yet in that under discussion only a little could have been taken. Perhaps the local irritation might favour its pro-pagation. This was the case with ordinary chancres, which irritation renders anto-inoculable. Perhaps, too, the hereditary taint might render the virus more contagious than that con-

tant might remark that when more contagnous than that con-tracted by an adult in the ordinary way.

Mr. Starth, during thirty years, had seen many cases of contagious pruring propagated by yaccination. He had seen scables also. With regard to syphilis, he had seen about one scabies also. With regard to syphilis, he had seen about one case a year. Certain he had most closely investigated, and he had satisfied himself of their genuine character.

Mr. HUTCHINSON, in reply, said he hoped the first series of ses were not chancrous, but feared they were, especially if all things had been taken into consideration. Here were thirty ots, all alike, all chancrous, in all enlarged glands, and in all the infinence of mercury was so clear, there really could be no donbt in his mind. As to a committee, he was not quite his so concor in an mind. As to a committees, as was now quite inso own master. In the second series of two there was a rash, un-doubtedly syphilitio. These children were past the date of inherited secondary rashes, yet these followed the vaccination in due ocurse. There was the further corroboration from the vaccinite's tells. Must always be fairly well-nourished before being vaccinifers; still, this was undoubtedly syphilitie, with condyloma, snuffles, and tendency to hydrocephalus. The vaccinifer was selected from a public station, and the lymph was quite clear. In the second series, the use of bloody lymph was not quite certain.

In reply to Mr. Simon, he stated that he understood the public vaccinator had selected the child.

THE PATHOLOGICAL SOCIETY. TUESDAY, APRIL 18, 1871.

J. COOPER FORSTER, F.R.S., Vice-President, in the Chair,

MR. ARNOTT exhibited a specimen of Soft Cancer of the Breast, with a drawing of its microscopic structure. The patient from whom the breast had been removed by Mr. Nunn, in the Middlesex Hospital, had noticed the tumour for ten months, and latterly it had been growing rapidly. It occupied the whole of the breast, and from its smoothly lobulated shape, with a fluctuating prominence in the centre, the slight glandular affection, and the absence of anything like severe constitutional derangement, the disease was thought by nearly all to be cystic sarcoma rather than true cancer. Even after the removal of the mass this impression was at first confirmed by the nakedthe mass tals impression was at first communically the mass-cye characters. A subsequent microscopic examination, how-ever, convinced Mr. Arnott that it was really an instance of so-called "firm medullary cancer." Such parts of the tumour as were not spoiled by degenerative changes and blood extrava-sation were made up of closely crowded, large, irregular cells, of varied shape, containing one or more large oval nuclei and bright nucleoli. These cells were contained in the wide meshes of a fine fibroid stroma which pervaded the mass, and mapped it out into irregular loculi. Apart from the interest attaching to the diagnostic difficulties of the case, Mr. Arnott was anxious to draw attention to the fact that it was one of was anxious to draw attention to the fact that it was one of those examples of cancer which, occupying a mid-position between scirrhus and medullary, serve to prove the real identity of these two forms of the disease. He thought that English pathologists generally laid too great stress upon the distinctive characters of these varieties, even where they were careful to separate the medullary sarcomata from the latter class. Seeing

that occasionally in the hardest scirrhous cancers nodules of very soft structure were met with, and that the secondary growths of both scirrhus and medullary were apparently quite is it seemed more fit that in using the terms scirrhus and medullary nothing more than a difference in consistence should be erstood, the only real distinction between the histological structure of the two tumours consisting in the proportion of fibrous stroma present. This was in the hardest cancers abundant, and was proportionately less as the firmness of the tumour diminished, this distinction being probably mainly dependant upon rapidity of growth.

Dr. MURGHISON brought forward a specimen showing a Fistulous Communication between the Gall-bladder and Colon, taken from the body of an old woman who died with epithetaken from the cody of an our woman who need with epithe-lioma uter. The cystic duct was not patent, and there was chronic thickening of the gall-bladder. A gall-stone had, be believed, at some previous time passed. In answer to Tr. Crisp, he replied that, although almost all fistulous openings were between the fundus of the gall-bladder and the bowel, still he had seen cases between the common duct and the bowel.

Dr. Duckworth exhibited a Gall-stone which had passed by the Umbilicus. There was no previous history of gall-stone.

The stone was composed mainly of cholesterine.

Dr. Muscursov exhibited a specimen of Incipient Acute
Atrophy of the Liver, which had supervened upon the passage
of a gall-stone from the body of a male, aged 66, who was admitted into the Middlesex Hospital on October 11, after seren weeks' illness from acute biliary symptoms, all of which had now disappeared, with the exception of the jaundice. The urine was found to contain tyrosine, and the cerebral symptoms which had supervened steadily increased. There was still a considerable quantity of urea present in the urine. Albumen appeared latterly in the urine. For several days before death the temperature was normal. Many of the symptoms rendered it difficult at first to decide whether the case was one of pyremia or acute atrophy of the liver. After death, the bile-ducts were found greatly dilated, and the liver in the early stage of scate atrophy. Crystals were found in the liver after steeping in spirit. Pus was also scattered in the liver and cortical substance of both kidneys.

Dr. Pre-Smith alluded to a case at Guy's Hospital in which there was no albumen, and the temperature fell two days before

Dr. Dickinson said that, in so-called spontaneous pysmis there has generally been some internal cause—as biliary calcu-lus, many cases of which had been related by Dr. Murchison himself. He had, however, also seen pyæmia result from renal

Dr. Murchison remarked that, in addition to cases of pyemis resulting from gall-stone, he had seen two cases following simple ulcer of the stomach.

calculus, and related a case in illustration.

Dr. Crise brought forward a specimen of Aneurism of the Coronary Artery, affecting the first branch given off between the aorta and auricle, which ruptured into the pericardium, causing sudden death. The man brought up a large quantity of blood, but the source could not be discovered. Dr. Crisp replied to Dr. Powell that the heart's action during life was very feeble and irregular when excited. He replied to a question of Dr. Wiltshire's, respecting the cause of the bringing up of blood, that there was no liver disease present.

Dr. Church referred to a case of a child, 11 years of age,

who died of aneurism, in whom there was no history of violence Mr. George Lawson exhibited a Hand, which he had Mr. USONON LLWSON exhibited a Hand, which he amputated at the Middlesex Hospital, on account of the following extraordinary injury which it had received from machinery. The boy was engaged feeding a paper-machine, when his hand was caught between the rollers, which were sufficient close to grip the skin without seizing fast hold of the hand. Instead of the hand and arm being drawn in between the rollers and crushed, the skin was torn as if by a clean cut just above the wrist, and drawn from the hand and fingers as far as the last phalanges, to which it remained attached, and from which it hung like an inverted glove. Several of the phalanges were considerably crushed.

Dr. Epis asked if the skin could not have been again ca-

Mr. Lawson replied, that as the phalanges were crushed and all vitality probably gone, he thought not. Mr. HULKE, who had seen the hand before operation, agreed

in this opinion. The PRESIDENT thought it judicious to operate at once on

children with such injury as was present in this case.

Mr. THOMAS SMITH exhibited a remarkable specimen of Cystic Disease of the Breast in connexion with Calcareous Degeneration of Scirrhous Cancer, taken from an old woman of a

thoroughly cancerous family.

Mr. Smith, in reply to Mr. Hulke, stated that the micro-

sopic characters were those of cancer. (Referred to committee.)
Mr. Hinny Morais exhibited a Medullary Sarcoma of the
Fibula of three mouths' duration, which entirely surrounded
the fibula, and infected all the tissues of the leg. It was limited to the shaft of the bone, and was separated from the epiphysis of the cartilage. The microscopic characters were more those of sarcoma, while the naked-eye appearances were

more those of medullary cancer. (Referred.)

Mr. Monns exhibited a Venous Tumour of the Cerebrum. all: atomic admined a venous lumour of me cereorum, taken from the body of a man, aged 38, who, with a marked personal and family history of drunkenness, had been knocked down when 19 years of age, and had, off and on, since suffered from epilepsy. He had also been insane for several months. from epilepsy. He had also been insane for several months. He ultimately died of bronchitis and pneumonia. The disease was situated at the left side of the posterior angle of the right eerobral hemisphere, and was composed apparently of dilated veins containing yellow-coloured material. There was no brain-tissue between the vessels.

Mr. Monars, in answer to the President, replied that it was

nævoidal, but of large veins.

Dr. MURCHISON brought forward a specimen of Diphtheritic Inflammation of the Traches from a man, aged 24, in whom there were no laryngeal symptoms for a month, and no albumen in the urine until the disease was far advanced. The membrane was entirely cellular, as had been previously demonstrated often at the Pathological Society.

CLINICAL SOCIETY OF LONDON. FRIDAY, APRIL 28, 1871.

Dr. W. W. Gull, President, in the Chair.

Ds. Genenhow read a case of Diphtherial Paralysis treated with Faradism. The patient, a female, aged 26, one week after subsidence of diphtheria, showed symptoms of paralysis, which took the following order: -Palsy of velum palati; vision troubles; numbness of the left, and afterwards of the right lower extremity; deadness and loss of power in fingers; incontinence of urine; vomiting; occasional vertigo; palpitation and dyspacea, with constriction feeling in the chest and abdomen; then loss of power in lower extremities, and partial deaf-ness. On admission, her legs were emaciated, and she was only able to stand imperfectly. She could use her hands but little. There was some tenderness on pressure over the left sciatic notch. There was anæsthesia of the legs, and the electromuscular contractility was impaired. She was treated by the application of faradism alone, and in twelve days she could dress herself. In twenty-one days the normal electrical reaction was established in the legs, and she could walk a little. occasion was emanusment in the tegs, and she could walk a little.

On March 14, two months after admission, she left the Hospital well. Dr. Greenhow, whilst acknowledging that the large majority of cases of this kind get well under any kind of tonic treatment, entertained no doubt that the treatment here adopted expedited the recovery. He did not attempt to determine the precise pathological cause of the disease, but suggested the occasional existence of neuritis as worthy of attentive consideration in this relation.

Dr. Althaus would have liked to hear an opinion as to the nature of the disease; the symptoms were well known, and the treatment satisfactory. He thought there was often neuritis. He asked if the cervical sympathetic had be pressed. He had often found it very tender on both sides, esp He asked if the cervical sympathetic had been cially on the hemiplegic one. If the constant current be applied to it, there are certain indications of local lesion. Sometimes similar symptoms are found to accompany simple swelling of the glands of the neck. It was better to localise the electricity on the superior cerrical ganglion, rather than employ general

faradisation.

Dr. HUUMLINGS-JACKSON asked Dr. Greenhow if he had been able to determine anything as to the kind of defect of hearing in his patient, and if he had grounds for inferring that the and it possess, and it he has grounds for interring that the car affection —if it could be attributed to palsy of small muscles within the tympannm. He (Dr. Jackson) had heard of defect of hearing in but one case of diphtheritie paralysis; the patient, a well educated Medical man, said that the defect was very trivial, but that it was enough to "render music unin-telligible." There was seemingly in this case a loss of accom-modation, so to speak, for successions of sounds. Dr. Jackson

particularly wished to ask Dr. Greenhow if his very large experience enabled him to say that a slight degree of deafness occasionally occurred as one symptom of the series in diphtheritic paralysis, and, if so, in what order it occurred.

Dr. BUZZARD asked if anyone had seen paralysis of this kind, following diphtheria, of any other part than the throat. If so, this would tell against Remak's view, that it was the site and not the disease which caused the palsy.

Dr. Anstie asked, with regard to the hypothesis of neuritisif it was a migrating inflammation passing from the throat to the cord, and thence to the nerves.

Dr. Wilks held the idea that the paralysis was not connected with the affection of the throat. He had often seen the throat hardly affected. Paralysis often followed slight attacks; he, therefore, imagined it arose from some general cause. remarkable depression of the pulse favoured the same view.

Dr. Gull thought the post-morten appearances would be interesting. He had examined one such case. He did not examine the sympathetic, but found the cord anamie merely, with no trace of inflammation. He considered the examination of fresh cord important, as appearances might be destroyed or produced by reagents. They had no idea of the path pursued by the irritation. He would like to hear something about the loss of hearing; as for the eyesight, that was impaired, on account of loss of accommodation.

Dr. Greenhow had no idea of the path pursued, nor had he examined the sympathetic. He did not think the loss of hearing a nervous affection, but considered it connected with inflammation of the Eustachian tube. He had no experience of diphtheria where the throat was not affected. One great peculiarity was, that a period of convalescence intervenes between the illness and the paralysis. The paralysis, as a rule,

crept downwards.

Gentlanding the before the Society a case of Accumula-tion of Hair in the Human Stomach, occurring in the practice of Dr. Godfrey, of Enfeld, the circumstances of which were similar to those of one reported by Dr. Best, of Louth, in the British Medical Journal, Decomber, 1889. In the present case the patient was a married woman, agod 32, mother of three living children, aged respectively 11, 9, and 4 years. Her children and friends had never noticed her to swallow hair, or to be strange in her mind or manners. She was affected with constant vomiting for about seven months before her death. constant volunting for about seven monus before her cent. The final circumstances were these: —She was pregnant with her fourth child. On January 27, 1871, labour began, and a seventh-month fostus was born. The birth of the child was followed by peritonitis, and death after two days. On a postmortem examination there was perforation of the duodenum, and the stomach contained a large mass of human hair and string, which extended through the pylorus into the duodenum. air was of three colours, corresponding with that of her own head and of her children. Dr. Gull drew attention to the similarity of these cases, as showing that there was some common cause for them, and suggested that they might probably depend upon some all-but extinct instinct which shows itself in some of the lower animals. It appears that certain breeds of cats are apt to commit involuntary suicide by swal-lowing the hair of their coats, and most museums contain hair-bezoars of different kinds, from horses and cows.

Dr. Habeshon had brought a somewhat similar case before the Pathological Society. The patient was a young woman, aged 19, who from childhood had eaten hair and string. She

died of peritonitis. Plum-stones and cherry-stones were sometimes retained for years without injury.

times retained for years without injury.

Dr. Landdon Down related the case of an imbedile boy engaged in mattress making, who had been accustomed to take a hair occasionally. He died of obstruction and periods to the control of th tonitis. A mass of hair and coir in the jejunum had caused his illness. Dr. Crisp had mentioned several cases.

Dr. Thorowood remembered many years ago seeing such a mass in the Berkshire County Hospital at Reading.

stituted a complete cast of the stomach in black hair.

Mr. Cooper Forster asked what the motive could be to induce such an act.

Dr. Wilks thought there was no particular reason. The action was instinctive. Perhaps it was a relic of the feline descent of females. Dr. WILTSHIRE referred to the old case of the man that

swallowed knives.

Mr. De Mongan remembered an instance where he was warned that he might at any moment be called upon to perform gastrotomy, but the girl passed a bezoar the size of an egg and got well.

Dr. CHURCH referred to a case where a female swallowed pins, bending them beforehand. This caused her death.

The PRESIDENT, in reply, thought no rationals could be given of an irrational act. It was to be distinguished from an insanc

of an irrational set. It was to on this guident from an instance act, or that of swallowing knives for profit, or bravado.

Dr. Gerennow then read for Dr. Henry Thompson notes of a case of Diabetes treated with opium. The patient, aged 35, exhibited well-marked symptoms of diabetes. Highteen months before admission into the Middlesex Hospital he began months of the admission into the Middlesex Hospital he began to pass large quantities of urine, and, during the last six months, his lips and teeth stuck together in the morning, and a viscid secretion exuded from the roof of his mouth. Histongue began to darken, and eventually became black. Seven or eight weeks before admission he perceived a peculiar saccharine taste in his mouth, and his sight grew dim. When admitted, he had a densely-costed blackish tongue, feeble gait, and despond-ing aspect. Passed eight pints and a half of urine in the twenty-four hours, of specific gravity 1042.5, the total amount of sugar being 6095 grains. He had persistent hesitache, pains in the loins, intense thirst, ravenous appetite, occasional hermoptysis, night-sweats, sponginess of the gams, and loseness of the teeth. The patient was treated with large and repeated doses of opium for six weeks, given in the compound soap pill, the solution of morphia, and Battley's solution, until the daily quantity amounted to twelve or fourteen grains, when it was discontinued on account of intense headache. opium treatment resulted in a diminution of the flow of urine and the amount of sugar, but no change in the specific gravity or in the general symptoms until a fortnight after the opium was abandoned. He then improved, and lost the dissinctive diabetic expression. Dr. Thompson hence concluded that the opium treatment was not beneficial, and serribed the improvement to other remedies, to a well-regulated diet, and to favourable sanitary conditions.

Dr. Pavy regretted the want of fuller details. It was known how much the kind of diet modified the quantity of urine— indeed, by its increase alone he had been able to discover transindeed, by its increase atone ne had been able to uscover trans-gressions of diet. No very large dose of opium had been given here, yet there was a peculiar tolerance of the drug in diabetes. The treatment was not new; it had been used at the beginning of the century. Some cases were from the first incurable, and at all times a good deal depended on the stage of the disease. At the beginning, a simple restriction of diet will cure the patient; after a time opium becomes necessary, and in the later stages nothing does good. Codeia suited better than

either opium or morphia.

OBSTETRICAL SOCIETY OF LONDON. WEDNESDAY, APRIL 5.

Dr. BRANTON HICKS, F.R.S., President, in the Chair.

The following gentlemen were elected Fellows of the Society:
—Eil J. Barrick, M.D. (Toronto), Thomas S. Bulmer, M.D. (Woolwich), Alan Reeve Manby, M.R.C.S. (East Rudham), Chitathore B. Modelly, Esq. (Madras), and Lawson Tait,

Chittattore B. atoeury, see, (ametaer), and control of F.R.C.S. (Birmingham).

Dr. Grally Hawire exhibited a child whose forearm had probably undergone Amputation in Utero.

Dr. Wiltshirk and it would be interesting to know what there is the control of the child of the control of the child of the child

became of the parts amputated. Sir James Simpson and others had figured cases in which nearly complete absorption had

taken place.
Dr. Barnes observed that it was not often strangulation by the umbilical cord, but by a string of false membrane, that caused amputation. He had a drawing of a case in which amputation was in progress. In the case exhibited there was, as in most instances, a budding of a new limb from the stump. analogous to what was observed in some of the lower snimals which had lost a limb. He regarded this budding with the sign of cicatrix as proof of amputation in the early stage of development.

development.

Mr. Scorr thought that if such cases occurred they were the exception. Ho knew a family in which the grandfather and the grandon had both forearms wanting. As the deficiency existed in both arms symmetrically it would be impossible to conceive that it could have occurred from any accidental conceive that it could have occurred from any accidental constriction in utero.

Dr. Beunton showed a wax model of a Successful Vaccination performed with the lymph from a secondary vaccination.

Mr. Eastes considered the most obvious criticism upon the case to be that, although occasionally lymph from a secondary vaccination might produce a good vesicle, still it could in general be by no means depended upon for that purpose.

Mr. WILKINSON stated that he had on several occasions

vaccinated with the lymph from a revaccination.

Dr. WYNN WILLIAMS hoped none of the Fellows would be tempted by the apparent success to follow the practice. It would be interesting to know whether vaccination performed from a secondary vaccination was any protection against small-pox.

The President thought that if anyone was exposed to the contagion suddenly and only secondary lymph could be obtained, it should be used, but he held that the person should, as soon as convenient, be revacoinated with primary lymph.

Mr. Scort had from necessity vaccinated a gentleman with secondary lymph, producing perfect vesicles. As he was much exposed to contagion Mr. Scott revaccinated him in three weeks with primary lymph, and again vesication took place, but less

perfectly.

Dr. WYNN WILLIAMS exhibited a Mole or Blighted Ovum, passed by a lady supposed to have been three months pregnant.

It had the appearance of a fleshy ball, and, when cut into, was hollow, with veins or sinuses in its interior filled with blood, not unlike so many distended leeches.

Dr. PRILLIPS thought such an appearance was not uncommon in an apoplectic ovum in which the blood was effused between the decidna and the chorion, the latter and the amnion being raised by it, and forming distinct masses on the feetal surface Dr. WESTMACOTT related the history of a case of Miscarriage

with triplets at the third month, and exhibited the embryos. Dr. Barnes exhibited two Instruments which he had found of great service. The first was a modification of Lallemande's porte caustique, designed to carry into the uterns a stick of sulphate of zinc. The second was a speculum for the purpose of facilitating the introduction of pledgets of cotton-wool carrying any indicated medicament into the vagina.

any indicated medicament into the vagina.

Dr. WINN WILLIAMS showed a patient, nearly the whole of
whose lower lip had been removed for Epithelioma ciptures
from the property of the property of the property of the control of the property are accessfully treated by two injections
of bromine, twenty drops to a draelm of spirit. There was
no appearance of disease at present. The patient was exhibited
to exemplify the effects produced in similar diseases when
strated in the neck of the worth.

Dr. PROTHEROE SMITH exhibited an Ovarian Tumour which he had removed on the preceding Saturday. The cyst was practically unilocular, but on its right side were three hard practically uniformers of the right and which led to the belief that they were of a malignant nature. The patient was doing well.

A resolution was then proposed by Dr. Barnes, seconded by Dr. Murray, and carried unanimously, expressing the regret felt by the Society at the loss of Professor Pietro Lazzati, a foreign Honorary Fellow, and its sympathy with the late Profeesor's relatives and friends in the great loss which they had sustained.

Dr. Edis read the history and post-mortem appearances of a Fallopian tubes.

Dr. Meadows communicated for Mr. Cradock, of Shepton Mallet, the particulars of a case of Occluded Vagina after delivery, with subsequent retention of menses, cured by operation.

A paper by Dr. Grally Hewrit, of which the following is an abstract, was then read:—

THE SICKNESS OF PREGNANCY; ITS CAUSE AND TREATMENT.

The sickness observed in pregnancy has generally been accepted as an inevitable circumstance; the causes of its occasional inveteracy and even danger have never been satisfactorily made out. The treatment of these latter cases has not been conducted ou any one principle; yet it must be evident that an analogous cause must be in operation in the slight cases and in the more severe forms. The present state of Professional opinion may be represented in the statement that it is due to the distending effect of the increasing contents of the uterus, exciting thereby in a reflex manner the act of romiting. The author, accepting this view, proceeds to propound the theory that the existence of flexions of the uterus in various degrees of intensity is the prime factor in giving rise to the vomiting of pregnancy in by far the majority of instances, inasmuch as it offers an additional hindrance to the proper expansion of the uterus, and gives rise mechanically to such pressure on the sensitive uterine tissue at the seat of flexion as results, in most cases, in this particular reflex irritation. This theory, as to

the cause of the vemiting of pregnancy, will account for the mild and severe forms of the symptoms. The author was led to this conclusion by observation of the close connexion between obstinate names and vomiting, and flexion associated with obstinate nauses and vonuting, and nexion associated wind distension of the uterus in the non-gravid state, as in cases of dysamenorrhous produced by flexion. Latterly he has found himself applying this explanation to the gravid cases, and, having tested the matter by observation for some little time past, the clinical facts which he has accumulated appear very completely to bear out the general truth of the theory new enunciated. An anteflexed gravid uterus is most commonly the condition found to be present, the antenexion existing before the pregnancy supervenes; retrofixion of the gravid uterus much less commonly, because the much less commonly, because the retroflexed uterus is less liable to become impregnated than the anteflexed organ. The very obstinate cases of sickness are observed generally at the second to the fourth month, when the uterus is sometimes found tightly fixed in the pelvis, and unable to a sometimes round ugnly fixed in the periva, and unable to escape from it. How far the explanation will apply to escape from it. How far the explanation will apply to author does not say, not having had eases to test the matter by. The slight cases, where the sickness is limited to the time of rising from bed, are explained by the action of gravity in the erect posture saddenly bending the uterus on itself to a slight extent. Undoubtedly whatevertends to hinder the expansion of the uterus may equally induce sickness: thus some cases may not be accounted for by the theory now put forward. The results of treatment based on the foregoing conclusions, and consisting in measures to restore the organ to its proper shape, have been found very successful in the author's expeshape, have been found very successful in the author's experience—sometimes maintenance of the herizontal position alone rimone—sometimes maintenance of the herizontal position alone fundus anteriority or posteriority, according to discumstance, being used for the purpose. The author is quite satisfact of the value of the theory as a basis for practice. He believes that the pressure on the nerves of the uterus at the seat of the bend is the exciting agent; this pressure usually leads to consent of the property of the pressure of the pressure of the terms above and below, and, possibly, to other secondary results.

Dr. Barnes observed that there had been many theories Dr. Barres Observed that there has been many survives advanced as to the cause of routing in pregnancy. Displacement of the uterus was an old theory. He was, hewever, in a position to state, from many precise observations, that flexions of the gravid aterus were often present without any musual degree of venting, and that most obstinate routining occurs when there was no flexion. The theory of the stretching of the state of the barbane man and distingly seat forth by the solar state of the stat the uterine fibre had been most distinctly set forth by the cele-brated Bretonneau, of Tours. Many facts concurred in proving its truth. Growth that kept pace with the growth of the con-tents of the uterus did not cause vomiting; but it was caused whenever the fibre was stretched rapidly, the distending conents outrunning the accommodating growth of the uterus. When vomiting had once become excessive, another element entered into the case. The defective nutrition was attended by when volunting mas once of the control exceeding specific and the local entered into the case. The defective nutrition was attended by impoverishment of the blood, and the blood was further degraded by the absorption of noxious material from the system. Concurrently with this, the habit of vemiting had induced a merbidly irritable state of spinal cord, so that it readily responded to the alightest peripheral or emetional

Dr. Till denied that vemiting was any more caused by flexions of the gravid, than by displacements of the unimpregnated, uterus. Uncomplicated uterine malpositions had no nated, uterus. Uncomplicated uterine malpositions had no symptoms. In the case referred to in the paper, the cure was attributed to rest in the horizontal poeture—a remedy of general use, recommending itself ou other grounds than the problematic power to rectify a flexed gravid womb. Dr. Tilt thought the proposed practice of restraining the sickness of pregnancy by the use of pessaries likely to lead to disastrous

Dr. WYNN WILLIAMS thought the sickness might be aggravated by the unequal distension which would naturally result from flexions of the uterus. In the latter months of pregnancy the sickness was due to an entirely different cause; generally to pressure on the abdominal viscera, mere especially the liver.

Dr. PLAYFAIR confessed to have heard Dr. Hewitt's proposal to apply mechanical supports to the gravid uterus with some alarm. Some points in the natural history of the sickness of pregnancy militated strongly against Dr. Hewitt's theory. Dr. Playfair did not doubt that some degree of sickness was a perfeetly healthy phenomenon in pregnancy. Sickness was much mere severe, as a rule, in first prognancies; flexions, en the other hand, were most common in multiparse. Again, it was

by no means rare for sickness to continue beyond the fourth month, and then flexions could but very rarely exist. Dr. Willermins said he had been requested by Dr. Buyko, who sat by him, to say that the hypothesis brought forward by Dr. Hewitt had also been propounded by Professor Krassovsky, of St. Petersburg. Dr. Wiltehire thought that flaxious of the attents were neither the only nor the most common cause

the nterus were neutner the company.

Or. Snow Beck said that anteversion and retroversion were not uncommon, and were among the chief causes of sterility. When, however, impregnation occurred, sickness was not more When, however, impregnation occurred, sickness was not more frequent than in other cases where no deviation had been pre-sent. Much stress had been laid on the anterestion of the stress relating in the ablomem in the usual way. As regards the integrinary stretching and thinning of the uterine tissue at the seat of fextion, the constriction of the bloodvessels and consequent congestion, and the assumed pressure on the nerves, he gave all these a direct denial. Further, the nerves at the seat of flexion were not those concerned in the production of sickness, for it was a matter of everyday experience that

attended with sickness.

The Passuberr observed that his experience did not coincide with Dr. Hewitt's. He believed that tension of the uterus was the chief cause, as shown by the immediate relief afforded when the membranes were ruptured in some cases, but he certainly thought with the author of the paper that the retroand ante-flexed conditions favoured the pressure. The act of vomiting probably tended to increase the displacement.

affections of the fundus of the uterus were those so generally

Mr. Scorr said that, in the most severe case which he remembered, the sickness continued to between the sixth and seventh month, in which, therefore, there could be no question of any flexion being a cause. He had frequently seen cases of retroflexion with pregnancy without sickness. Mr. Scott thought acute anteflexion of the nterus was an absolute cause of sterility, whereas pregnancy occurred not nufrequently in severe cases of retroflexion.

In reply, Dr. GRAILY HEWITT thanked the Society for the reply, Dr. Orally Hawn't limited the occupy to the criticisms on his paper. It must be evident on necessary mechanical principles that an organ like the uterus could not be actually bent at the cervix without compression of its tissues on the concave side of the bend. He was not aware that the theory had been advanced in this shape by any previous author. With Dr. Barnes he believed, and had stated as much, that the distension of the nterus was the cause; but whether it operated discension of the netrue was uncertained whether to present by compression of the netrues, or by stretching of the muscular fibres, was a question. He himself believed the former the true explanation. He could say, in reply to Dr. Tilt, that he had actually carried his own recommendations into practice to had actually carried his own recommendations into practice to their full extent. He, however, recommended caution in the use of pessaries. The best adapted pessary for the anteflexed cases was the globular air pessary. The fact that sickness was nest common in primipare was quite in uniformity with the theory advanced. It must, hewever, be recollected that he did not contend that every case of sickness would be found to be a case of flexion, nor would every case of flexion be attended with wickness

LEGAL INTELLIGENCE.

LOCAL BOARD OF HEALTH IMPROVEMENTS.

The Board has no Poor to Deviat from its soon life.

The Board has no Poor to Deviat from its soon life.

Mas. Formun Structure, the owner of soon property in Mill-lane, Fallsworth, was summoned by the Pailsworth Local Board of Health for a sum of £8 15s. 6d, being the amount due in respect of certain sowerage works for which it was alleged able was liable. The usual plans were deposited at the offices of the Board, and, in pursuance of the requirements of the Act, notice was given to the defendant and the other owners of the property in the lane, requiring them to commence the work within two months from August 19, 1868. None of the owners complied with the requirement, and the Board, as they were empowered to do, took the matter into their own hands, were empowered to do, took the matter into their own hands, and completed the work in September, 1870. Payment was demanied in January, and refused. Mr. Trapp, surveyor to the Board, admitted, on being pressed, that at one point the sower was only 5 ft. deep, while, according to the plan, it ought to have been 9 ft.; but it had been found impossible to lay the pipes deeper in consequence of a quicksand which had to be passed. There was a man-hole in the sewer, but he could not say whether the drain entered near the top and went out at the bettom. The plan did not show that it did.

OBITUARY.

For the defence, Mr. John Smith was called. He said that both all been in the employment of the Newton Heath Local Board for four or five years, and had examined the man-hole of the fine from the surface, and went out at the bottom, which was 9 ft. from the surface, According to the plan, the sweer ought to have been 9 ft. deep above the man-hole, but it was only 5 ft. Sir. J. J. Mantell said he had beard enough of the case to

Sir J. J. Mantell said he had heard enough of the case to make him think ho ought to dismise the summons. If plans were allowed to be deviated from, there was no knowing what might be the result, and he thought those furnished should be implicitly compiled with. It might also be added that, unless Boards of Health serupationally adhere to the deposited plans, the whole work of improving the sanitary condition of the plans of the plant of the plant of the plant of the plant by the owners of property, at all times too ready to relieve thereaelves of that responsibility which is the correlative duty to the right by which all property is possessed.

NEW INVENTIONS.

THE WOVEN WIRE MATTRESS.

(Heron, Greeham, and Craven, Sackville-street, Manchester; and

Carron, orrection, and overes, because drees, anneaever, and the control of the c



basis for a bed, for sick or healthy, it is manifestly light, sirry, incapable of harbouring remin, easily moved, noiseless and cheap. Probably in many cases it would take the place of a water-bed. We hope it will be used also for easy chairs and sofas. The price, we understand, is 16s. per foot of breadth. The elasticity and durability of the woven wire seem to be secured by the immense quantity of fine wire woren diagonally. The thorough ventilation which it secures is of great value, for sometimes the under-surface of beds and mattresses becomes quite mouldy from damp during a long illness.

ARNOLD AND SON'S IMPROVED SURGICAL BAG (REGISTERED).

(35 and 36, West Smithfield, E.C.)
MESSES. ARNOLD have, at the suggestion of Mr. Barnard Holt, devised a bag, on the same principle as the obstetric bag of Dr. Barnes, which shall hold overy known intrument that a



Surgeon is likely to want for emergencies great and small. It is, as the cut shows, a bag which folds up so as to look like a gentleman's ordinary carpet-bag; but when opened the sides drop down, and are found to contain a series of pouches for catheters, forceps, buggies, and other instruments whose length

is great in proportion to their thickness. The centre is divided into horizontal partitions by a number of wire trays, in which are packed cases containing the various set of instrument, and the proportions to the proportions of the proportion of the prop

OBITUARY.

DR. DE BURGH BIRCH

Was born at Portumna, county Galway, in 1799. He commenced his Medical studies in Dublin, and in 1819 took his diploma at the Royal College of Surgeons of that city, whence he went to Edinburgh, and there graduated in 1821.

About that period, a very serious fever having brokes out in Galway, he was nominated with others to assist in superssiag it, and so successful was he in the performance of this day that he received the warmest thanks, with expression of deep gratitude, from the magistates and kergmen, both Professian and Roman Catholis, for his active andeavours in the discharge of this important duty. These services were so highly appeared by the Marquis of Welfesley, then Lord-Licensat of Irviand, that he immediately recommended Dr. De Burgé Lirch for an Assistant-Surgeoury in the Medina Army, which service which services which we will be the Medina Army, which service which services were serviced to the Medina Army, which service which services the mediately and the Medina Army, which services were serviced as the Medina Army which services were serviced and the Medina Army which services were serviced and the Medina Army which services were serviced and the Medina Army which services were serviced as the Medina Army which services were serviced and the Medina Army which services were serviced as the Medina Army which services were serviced and the Medina Arm

Birch for an Assistant-Surgeoner in the Madras Army, which service be entered July, 1824. He had hardly landed at Madras when, war with Burmah having been declared, be was appointed Assistant-Surgeon to 18 M. is service to that country, and continued with it during the whole of the var, and at its termination received the warm thanks of its commanding effect.

who further brought his meritorious conduct to the solice of his Excellency the Commander-in-Chief. He was afterwards appointed to the Artillery, and in 1834 accompanied the 50th Regiment, to which he was then attached, in the state of Coorg. He was stationed with his regiment a short time at Macara, the capital of Coorg. In the same Syear he was sonianated to the important post of Superintending Medical Offser ment until 1842, when he same to England on leave, duming which time he married. In 1845 he returned to India, and retired from the service in 1849. He died on April 28, 1811.

SAMUEL BARTON, J.P., F.R.C.S. Eng.

This deceased gentleman was one of the oldest Medical Practitioners in the city of Manchester, having been a pupil of Abernethy's at St. Bartholomew's Hospital. He received his

diplomas in 1811, and in that year commenced practices at 8 Burgeon in Manchester, and his residence was for many years in Mosley Street. In 1816, when the Eye Hospital was astablished, he was appointed Surgeon in that institution, to which he devoted his best energies, and always took a deep and lively interest in its wellies. Consulting Surgeon, and afterwards, in failing years, of Honorary Consulting Surgeon from his colleagues in that establishment. In 1844 he was made a Fellow of the Royal College of Surgeons of England. He was contemporary with the late Dr. Hull, Dr. Holms. Mesers. Wilson, Willador, Thorep, and others, and filled an honourable and conspicuous position, not only in the contemporary with the late Dr. Hull, Dr. Holms. Mesers. Wilson, Willador, Thorep, and others, and filled an honourable and conspicuous position, not only in the contemporary with the late Dr. Hull, Dr. Holms. Mesers. Wilson, Willador, Thorep, and present older surviving branches of the Medical Profession he will be well remembered for his extreme courters and delight.

viving ornancies of the attentional Profession in white well remembered for his extreme couriesy and delicated of the couriest of the couriest

to accidental cataract, in which be recommended the extraction of the crystalline lens when injury was succeeded by inflam-mation; also the removal of the eye, when it had been pene-trated with gun-cap or any foreign body that remained in it, to prevent sympathetic inflammation from destroying the

sound eye.

His knowledge of books, pictures, painters, and the fine
arts generally was of no ordinary kind. The splendid collection of pictures and books of engravings which he has coltion of pictures and books of engravings which he catterne good taste and mature judgment he possessed in matters of art. Several of his pictures were honoured by being selected for the Art Treasure Exhibition held in this city in 1857.

for the Art Treasure Exhibition held in this city in 1801. He died at his residence, Whalley Range, near Manchester, on the 18th ult., within five days of completing his 82nd year, and his will has been recently proved in the Manchester Dis-trict Court of Probate, and the personalty sworn under £100,000.

DEPUTY INSPECTOR-GENERAL J. T. TELFEL. We regret to announce the death of J. T. Telfer, Eq., Deputy Inspector-General of Hospitals (half-pay) and Medical Officer to the Military Prison at Geoper, as having taken place on the 6th inst. at his residence in Anglesey, Hants. Mr. Telfer entered the service as Staff Assistant-Surgeon in Jury, 1835, and in September of the same year was appointed to the 14th Foot, with which regiment he served in the West Indies, and of which, during a severe epidemic of fever in 1836, he was for some time in sole Medical charge, in consequence of the senior Medical officers of the regiment being disabled by tne senior Medical officers of the regiment being disabled by fever, be himself having previously passed through a severe attack. His services on this occasion received full acknow-ledgment from his commanding officer. On leaving Dominica, in 1840, he was pre-ented with an address from the inhabitants in recognition of his services to them. He subsequently served in Canada, Turkey, and China. He was promoted to Second-class Staff Surgeon in June, 1846, First-class, March, 1858, and Surgeon-Major in October, 1858; and in December, 1862, the retired on half-naw, with the honorary rank of Denuty he retired on half-pay, with the honorary rank of Deputy Inspector-General, and shortly afterwards obtained the ap-pointment of Medical Officer to the Gosport Military Prison.

DR. KINGSTONE AND DR. McCONNELL

WE have to record the desth of two Surgeons of the Bombay Army-Dr. Kingstone and Dr. McConnell. Surgeon H. C. Kingstone, B.A., M. B., officiating Deputy Assay Master of the Bombay Mint, entered the Service in February, 1866, and was an officer of conderable ability. He died, while akeeping, on an officer of considerable ability. He died, while sleeping, on Friday, March 31, of consumption. He was in his 24nd year. Surgeon R. C. McConnell died at the Sanitarium, in the Marine Lines, on Saturiay, April 1. He entered the service on the same day as Surgeon Kingstone. Dr. McConnell had seen service both in Peraia and Abyasina. These two officers entered the Service on the same day, and—strangecoincidence—were buried on the same day in the same cemetery.

MEDICAL NEWS.

ROYAL COLLEGE OF SURGEONS OF ENGLAND .- The following gentlemen passed their Primary Examinations in Anatomy and Physiology at a meeting of the Court of Examiners on the 9th inst., and when eligible will be admitted to the Pass Examination :-

he Pass Examination:—
Austin, Carobey, O University College,
Balding, Mortimer, B.A. Cantab., of the Middlesex Hospital.
Berestord, William Huggh, of H. Marty I Boquial.
Berestord, William, 19gh, of H. Marty I Boquial.
Bruth, Charles William, of the Manchester School.
Bruth, Charles William, of the Manchester School.
Bruth, Charles William, of the Manchester School.
Davis, Robert, of the Newcastle School.
Bruth, Allerd Heart, of University College.
Fart, Frederick Arthur, of the Charing-cross Hopital.
Galdina, Aired Lewis, of Goy's Hospital.
Homan, George William, of King's College,
Bruth, Charles School, Grand College, Charles Schward de Lacy, Charles Schward de Lacy, Grandes Schward de Lacy, Gharles Schward de Lacy, Gharles

Priddle, Francis, of the London Hospital. Robertson, Hugh, of 8t, Thomas's Hospital. Seymour, Charles, of Guy's Hospital. Tootell, Edward, of 8t, Hartholomew's Hospital. Underhill, Arthur Stafford, of the Birmingham School. Underwood, Thomas Francis Ken, of King's College. Walter, Robert, of 8t, Corogr's Hospital.

Walker, Robert, or es. ucerge a nospusa.

In following candidates passed on the 10th inst., viz.:—

Atthill, William Eyre Blennerhassett, of St. George's Hospital.

Berron, Frederick William, of R. Matchiolonees' A Hospital.

Brook, Group Seymour, of the Newardie School.

Dixon, George Seymour, of the Newardie School.

Dixon, Heary George of the Dublin School.

Firth, Charles, of St. Bartholonees's Hospital.

Olionary, George Walls, of the London Hospital.

Firth, Charles, of St. Bartholonees's Hospital.

Firth, Charles, of St. Bartholonees's Hospital.

Hough, Richards of St. Bartholonees's Hospital.

Hughans, William Steels, of the Westminster Hospital.

Hughans, William Steels, of the Westminster Hospital.

Hughans, Olionary, George Westmington, William Steels, of the Westminster Hospital.

Hughans, William of St. Bartholonees's Hospital.

Hughans, William of the Leeds School.

Freith, Dever Alexander, of St. Bartholonees's Hospital.

Moorboad, Thomas Hamilton, of the Dublin School.

Forter, Joseph Fransk, of the Dublin School.

Forter, Joseph Fransk, of the Dublin School.

Forter, Joseph Funds, of St. Bartholonees's Hospital.

Tomlinen, Watson, of the Manchester School.

Schow, Horry Haudson, of St. Bartholonees's Hospital.

Tomlinen, Watson, of the Jeels School.

Watson, Charles Edward, of King's College,

Watson, Charles Edward, of King's College,

Watson, Charles Edward, of King's College,

Walliams, William Adsensey of King's College,

Weed, Henry Theored, of University College.

Wood, Henry Theored, of University College. The following candidates passed on the 10th inst., viz. :-

ROYAL COLLEGES OF PHYSICIANS AND SURGEONS, EDINBURGH-DOUBLE QUALIFICATION.—The following gentlemen passed their first Professional examinations during the May sittings of the examiners :-

Brown, William Henry, Coventry. Clarke, Arnold, Cavan. Cochrane, John, Edinburgh. Hartford, Richard A. H., Templemore. Kane, John, Adelaide,

Pickering, Thomas P., Nantwich. Power, Thomas, Cork. Butherford, Robert A., Manorhamilton. Ryder, Henry John, Cork.

And the following gentlemen passed their final examinations, and were admitted L.R.C.P. Edin. and L.R.C.S. Edin:-

Barr, William Henry, Cheshire, Buckly, Daniel Francis, Cork. Coleman, James Joseph, Galway, Fox, Edward Austin, Lancashire, Fox, Michael John, Lancashire, Griffin, Thomas, county Galway, Heigham, Tom, Manchester, O'Comor, David Watkins, county

O'Donovan, Jeremish, Cork.
Shaw, David, county Down.
Sheat, Charles Aifred Ernest,
Owwestry, Salop.
Solomon, Charles, Hull.
Stewart, Robert, Perthahire.
Watson, John Woodrow, Derry.
Wilson, John Essex.

ROYAL COLLEGE OF SUBGEONS, EDINBURGH.—The following gentlemen passed their final examinations, and were admitted licentiates of the College during the April sittings of the examiners.

Heuston, Benjamin Tydd, Tip- Gairdner, Matthew William, Crieff. perary. Morrow, John, county Derry.

APOTHECARIES' HALL. — The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday, May 4, 1871 :-

Allwood, John Philip, Stafford. Cockerton, Henry Herbert, Ialington. Hill, Alfred, Leeds. Rops, Henry John, Wickham Market. Scale, George John, Merthyr Tydul. Wade, Arthur, Bossastle, Cornwall.

The following gentlemen also on the same day passed their first Professional examination:—

Burton, Edward Theodore, Ledwich, Dublin. Sarjant, Josiah John, London Hospital.

APOTHECARIES' HALL, DUBLIN.—At the Examination in Arts, held on April 21, the following gentlemen received Certificates entitling them to commence their Medical studies:

Browne, George Henry.
Daly, Peter.
Daly, Thomas.
Faris, John Johnston.
Good, Charles.
Hamilton, John Beamish.
Hoops, Samuel Evans.

Johnston, David Todd. Kennedy, William. M'Kenna, Francis. Naish, Redmond. Frice, John Griffith. Wetherman, John.

The following gentlemen, having passed their Professional examinations, obtained the licence to practise :-

Barr, William Henry. O'Shaugnessy, James. Wyse, George Hamilton.

The Council's annual prize in pharmaceutical chemistry, open to apprentices, was awarded, on the 5th inst., to Albert E. Swayne; and at the same time a second-rank honour certificate was given to Herbert Alexander Auchenleck for distinguished answering. The subject of the examination was, on this occasion, "The British Pharmacopoia,"

APPOINTMENTS

. The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

CHITTENDEN, C. P. D., L.B.C.P. and S. Edin.—Resident Medical Officer to Charing-cross Hospital, vice S. S. Noakes, appointed Resident Accoucheur.

COMMONIA, JOHN, M.B., C.B.—Assistant Medical Officer to the Glasgow Town's Hospital, rice Mr. James C. Dove, M.B., C.M., resigned. Gonzos, John Gimsoy, M.B., C.M.—Junior House-Eurgeon at the Royal Infirmary, Manchester, rice Arthur E. Sutcliffe, M.R.C.S. Eng., L.S.A. Lond, resigned through III-health.

LOTTI, Mr. CONSTANTINE.—Honorary Surgeon-Dentist to the St. George, Hanover-square, Dispensary.

MARTIK, HENRY CHRILES, M.B., C.M., University of Edinburgh.—House-Surgeon to the Seamen's Hospital, Greenwich.

NOARES, S. S., M.R.C.S., L.S.A.—Resident Accoucheur to Charing-cross Hospital, vice C. T. D. Chittenden, appointed Resident Medical Officer. Owrs, Llovo, M.R.C.S.—Chloroformist to the Dental Hospital, Birmingham.

RAVANHILL, E. B., M.R.C.S., I.S.A.—House-Surgeon to the South Staffordshire General Hospital, Wolverhampton, vice Mr. H. L. Snow, M.B., resigned.

RAY, WILLIAM J. R., M. R.C.S.E., L.S.A.—Resident House-Surgeon at the Westminster Hospital, vice Mr. T. C. Eager, M.R.C.S.E., L.R.C.P. Edin., L.S.A., resigned.

SLACK, G. F.—Resident Surgical Officer to Charing-cross Hospital, vice J. A. Lea, L.R.C.P. Edin., resigned.

FRANCE, ARTHUR, M.D. Edin., late Assistant Medical Officer to the Metropolitan Asylum at Leavesden.—Senior Assistant Medical Officer, Foundle Department, Colney Hatch Asylum, Middlesex, rice R. Carter, STRANGE,

Wade, W. F., M.B., M.R.C.P., etc., Physician to the General Hospital, Birmingham.—Honorary Consulting-Physician to the Dental Hospital, Birmingham.

WEST, JAMES, F.R.C.S., L.S.A., Senior Surgeon to the Queen's Hospital, Birmingham.—Honorary Consulting-Surgeon to the Dental Hospital,

MILITARY APPOINTMENTS.

34TH FOOT.—Staff Assistant-Surgeon John Middleton, M.D., to be Assistant Surgeon, vice David Chambers McPall, who exchanges.

ant curgeon, ever lavia Chambers McFall, who exchanges.

MEDICAL DEPARTHENT.—Assistant-Surgeon David Chambers McFall, from
34th Foot, to be Staff Assistant-Surgeon, vice John Middleton, M.D.,
who exchanges; Staff Assistant-Surgeon Edward Coffee has been permitted to resign his commission.

BIRTHS.

Adams.—On May 8, at St. James's-road, Croydon, the wife of T. Rutherford Adams, M.D., of a daughter.

BLEGELEY.—On March 29, at Simla, Punjaub, the wife of Staff Surgeon T. M. Bleckley, M.D., LL.B., Secretary to the Inspector-General of Hospitals, H.M. British Forces in India, of a son.

BOURNE.—On May 6, at Bradford, Yorkshire, the wife of Walter Bourne, M.D., of a daughter.

Baard.—On May 5, at the Grove, Burgess-hill, Sussex, the wife of James Braid, M.D., of a son.

Sakkey.—On May 8, the wife of Heurtley Sankey, Eaq., Superintendent of the Littlemore Asylum, prematurely of twin daughters. Surrson.—On May 6, at Hampstead-lane, Highgate, the wife of G. A. M. Simpson, M.B., of a daughter.

SEITH.—On May of a daughter On May 5, at Tonbridge, the wife of Cleveland Smith, M.R.C.S.,

WYNDOWR.—On April 29, at the Vicarage, Cleygate, Surrey, the wife of Samuel Jardin Wyndowe, M.D., of a daughter.

MARRIAGES.

COWAN-SCOTT.—On May 4, at All Saints' Church, Blackheath, Alexando Ownald Cowan, M.D., youngest son of the late Alexander Cowan, Esq of Edinburgh, to Rachel Marion, third daughter of James Nairr Scott, Esq., of Blackheath

DAYSON-PRIDEAUX.—On May 14, at St. Saviour's Church, Dartmouth, Frederick Adams Dayson, M.D., of Roseville, Dartmouth, to Georgina Emma, fourth daughter of Samuel Were Prideaux, Eeq., Mount dalpine, Dartmouth.

Partmouth.

Parkuix—Warson.—On April 5, at Christ Church, Byculla, Bombay, Benjamin Franklin, Assistant-Surgeon Bengal Army, to Harriette Sarah, younger daughter of John Ferra Watson, Esq., Heigham Hall, Norwich.

HOTSEMAN—BUTTLE.—On May 6, at the parish church, Wharren Percy Edward Cooke Houseman, M.R.C.S., Knaresborough, to Jame, only daughter of the late F. C. Buttle, Eaq., Glasqow.

caugnier of the late F. C. Buttle, Lea, thacow.

Lower-Lross...On April 98, at Magherngall Church, John R. C. Lowry,
M.B., Indian Medical Staff, son of the late James Corry Lowry, Q.C., of
Rockdale, county of Tyrone, to Constance Adela Hastings, daughter of
W. T. B. Lyons, D.D., of Brook-hill, country of Antrin.

W. T. E. Lyons, D.D., of Brook-hill, country of Antrino. Secu:—Harvy.—On March 5, 1870, after banns, at St. Mary's, The Bolton's, West Brompton, Herbert Augustus, second son of the late Edwin Such, Surgeco, Putney, to Margaret Henderson, only surviving child of Gernard and Eliza Harvey.

DEATHS

BURKE, PATRICE, Surgeon, late (and for many years) of Upper Montagustreet, W., at 6, Newton-terrace, Hayswater, on May 8, of bronchitis,

Casev, Axx, wife of Thomas Casey, M.D., at St. Albans, on May 8, aged 71.

CUTHORE, EMBELIER GREEVILLE, the beloved youngest daughter of Dr. Charles Cutmore, at Sussex-house, Church-road, Upper Norwood, on April 15, aged 6 years.

April 16, aged 6 years.

First, Jons, Surgeon, at Macclessield, from the effects of a carriage accident, on May 6, aged 61. Also, on the same day, and caused by the same accident, Emily, wife of the above, aged 62.

Henry, Janes, M.D., Physician to the Suffolk General Hospital, etc., at his residence, on April 34.

Mills, Thomas, M.D., M.R.C.S., of Bloomfield, Tipton, Staffordshire, aged 46.

aged 40.

PIREER, Dr. RICHARD, at 7, Victoria-terrace, Sheerness, on May 7, after x long and painful illness, borne with exemplary fortitude, aged 43.

RESELL, ANTA; the belowed wife of John George Russell, and daughter of the late Dr. Hagh Sheridan, at the Quinta de los Olivos, Buence Ayres, from tryphoid lever, on February 25, in the 25th year of her age.

TRIFER, JOHN T., Deputy Inspector-General of Hospitals at Anglessey, Hants, on May 6, aged 67.

WESS, RANDOLPH MACDERMID, son of R. Webb, Surgeon 14th Regiment, at Sheffield, on May 5, aged 5 months.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession. Charino-choss Hospital, West Strand, W.C.—Registrar; must be legally qualified to practise, and be registered. Applications and testimonials to the Secretary, on or before May 31.

CHRITERIAM GENERAL HOSPITAL AND DISPESSARY.—Resident Surgeo to the Branch Dispensary. Candidates must have both Medical an Surpical qualifications, and be registered. Applications and testimonia to Mr. D. Hartley, on or before May 20.

CUMBERLAND INFIRMARY.—House Surgeon; must be legally qualified.

Applications and testimonials to Mr. John Laver, Secretary, Carlisle, on or before May 37. Election on June 7.

Grouve any z. . . . section of June 1.

Lear Hinno Levario Astrum.—Medical Superintendent; must be duly qualified and registered. Applications and testimonials, together with a copy of the last Report of the Commissioners in Lunes; as to the state of the Asylum with which the applicant is now connected, to Mr. F. Hobson, Beverley, Yorkshire, on to before June 1.

HUDDERSTIELD INTERMET.—Assistant House-Surgeon; must be a Medical student of not less than three years' standing. Applications and testi-monials to Mr. E. J. Hardy Booth, House-Surgeon, on or before May 15. LITTLEMORE PAUPER LUNATIC ASYLUM.—Resident Assistant Medical Officer; must be duly qualified and registered. Applications and testimonials to J. M. Davenport, Esq., County Hall, Oxford, on or before

Macclesvield Dispersany.—House-Surgeon; must have both Medical and Surgical qualifications. Applications and testimonials to the Secretary, on or before June 10. Election on the 16th.

Secretary, on or before 4 une 10. Election on the 16th.

Namerral Univor.—Medical Officer for the Third District. Candidates
must have the qualifications prescribed by the General Orders of the
Foor-law Board, and understand the Weish language. Applications and
testimonials to Mr. John Thomas, Clerk, Narberth, on or before June 17.

Election on the 19th. RESCION on the INC...

NORTHEAR UNION.—Medical Officer for the district comprising the parishes of Aldsworth, Bibury, and Coin St. Aldwyns. Candidates must have the qualifications prescribed by the General Orders of the Poor-law Board. Applications and testimonists to Mr. H. Stilles, Clerk to the Quardinas, on or before May 24. The duties will commence on June 24.

NORTH STAFFORDSHIRE INFIRMARY, HARTSHILL, STORR-UFON-TREST.
Resident Medical Officer; must have both Medical and Surgical qualifi-cations, and be registered. Applications and testimonials to the Socretary, on or before May 24. Election on June 1.

Secretary, on or before May 24. Election on June 1.

ROYAL ASYLOW OF St. Asy's Society, Stranzian-Hill, Rubber.—

Medical Officer; must have both Medical and Surgical qualifications.

Applications and testimonials to the Secretary, at the Office, 92, King

William-street, E.C., on or before May 18.

william-erreet, E.C., on or octors any i.s.

ROYAL General Dissersant, 28, Bartinotonew-close, E.C.—Resident
Medical Officer; must be duity qualified and registered. Candidates to
attend at the meeting of the Medical Sub-committee on May 30, at
2 o'clock p.m. Further particulars can be obtained of the Secretary,
Mr. E. P. Rowsell, 60, Gracechurch-street, E.C.

BOYAL KENT DISPENSABLY.—Resident Medical Officer; must have both Medical and Surgical qualifications, and be registered. Applications and copies of testimonials to W. Bristow, Esq., 78, London-street, Greenwich, on or before May 20. Election on June 2.

wica, on or ocrors May 20. Election on June 2.

Fr. Mary's Hosertai, Pandisorox, W.—Physician Accoucheur; must
be a Fellow or Member of one of the Colleges of Physicians of the
United Kingdom. Applications and testimonials to Mr. G. Wilkinson,
Secretary, on or before May 13.

SEAMEN'S HOSPITAL SOCIETY, GREENWICH.—Visiting Physician; must be a Fellow or Member of the Royal College of Physicians. Applications and testimonials to Kemball Cook, Eaq., House Governor and Secretary, and testimonials to I on or before May 20.

SOUTH STATEMENT GENERAL HOSPITAL, WOLVERHAMPTON.—Physician; must be M.D. or M.B. of the University of Oxford, Cambridge, London, Edinburgh, or Dublin, or F. or M.R.C.P. London, Edinburgh, or Dublin, Edipractising midwifery or pharmacy. Applications and testimonials to the Scordary, on or before May 13.

SUPPOLE GENERAL HOSPITAL.—Physician. Applications to Mr. W. Gross, Bury St. Edmunds, on or before May 15.

SUNDERLAND INFIRMARY.—Assistant House-Surgeon; must have both Medical and Surgical qualifications. Applications and testimonials to the House-Surgeon, on or before May 25.

West Ham, Stratford, and South Essex Dispensialy.—House-Surgeon and Dispenser; must be legally qualified. Applications and testimonials to Mr. T. E. Tonge, St. John's-terrace, Stratford, Essex, on or before May 16.

WORCESTER COUNTY AND CITY LUNATIC ANYLUM.—Assistant Medical Officer; must be a duly qualified Medical Practitioner. Applications and testimonials to Dr. Sherlock, at the Asylum, Powick, Worcester, on or before May 16. Election on the 20th.

POOR-LAW MEDICAL SERVICE.

. The area of each district is stated in acres. The population is computed according to the census of 1861. RESIGNATIONS.

Braintree Union.—Mr. William T. H. Wood has resigned the Finching-field District; area, 8877; population, 3441; salary, £59 per annum. Direc Union.—Mr. John Brunton has resigned the Madicy District; area, 20,563; population, 3223; salary, £79 per annum. Protecte Ideal Union.—Dr. D. Mackintosh has resigned the Southsea

Forties Ideal Union.—Ur. 1. annual memory District; salary, 750 per annual William Reynolds has resigned the First District; salary, 750 per annual; and the Workhouse; salary, 530 per annual; and the Workhouse; salary, 530 per annual.

Alassick Usins.—Henry Cardills, M.D. Univ. Glazg., L.F.P. and S. Glazg., to the Alawick Detries and the Workhouse. Alex. J.Main, M.D. Univ. Slim., L.R.C.S. Edin., to the Lesbury District. Spaces Osion.—Federic S. Moger, M.R.C.S. Edg., L.R.C.F. Lond., to the Glassic Conference of the Conference of th

MR. NETTLESHIP has been elected Curator and Librarian

of the Royal London Ophthalmic Hospital.

MR. WILLIAM KIPLING, L.R.C.P. Lond., M.R.C.S., has been appointed one of the staff of the Metropolitan Free Hospital, Devonshire-square.

COLLEGIATE LECTURES. - Professor John Birkett, F.R.C.S., will commence his course of lectures on the "Nature and Treatment of New Growths" (in continuation of his course of last year), in the theatre of the Royal College of Surgeons, on Monday, the 29th inst., and on Monday, the 12th prox., Mr. J. W. Hulke, F.R.S., will commence his course of lectures on the "Minute Anatomy of the Eye," in continuation of his course of the last two years. These several lectures will be delivered on Mondays, Wednesdays, and Fridays, at 4 o'clock.

EXAMINATIONS AT THE ROYAL COLLEGE OF SURGEONS. —The following were the questions in Anatomy and Physiology submitted to the candidates for the diploma of Membership of the Royal College of Surgeons at the Primary Examination on the 6th inst., on which occasion eighty-two candidates presented themselves, when twelve were referred to their studies on the first day, and nine on the second, making a total of twenty-one : 1. Mention the bones which enter into the formation of the orbit. the foramina in its walls, and the parts passing through them in their relative position. 2. Describe that part of the process of digestion which is effected in the stomach. 3. Mention the of digestion which is effected in the stomach. 3. Mention the nunscles which surround the upper third of the radius and ulna, their relative positions, and the nerves supplying them. 4. State the different kinds of epithelium by which the following nuncous surfaces are covered:—Nasal duct, superior meatus of the nose, pharynx and oseophagus, gall-bladder, pelvis of kidney, ureter and bladder. 5. The deep cervical fascia: Describe its extent, connexions, and arrangement; specifying particularly its relations to the muscles and bloodvessels of the neck. 6. Describe the superior cervical ganglion of the sympathetic; its form, situation, and connexions. What effects result from its section?

Worcester Asylum .- Dr. Ceeley, the Assistant Medical Officer, has resigned his appointment.

PLEURO-PNEUMONIA is raging in Fifeshire.

EFFORTS are being made to raise subscriptions for aiding small-pox patients above the class of paupers, but who are unable to meet the expenses which the disease entails, and to take the rest and change essential to their recovery.

THE Guardians of the City of London Union, at their meeting on Tuesday, resolved that a sum of twenty guineas be subscribed annually to the funds of the London Hospital.

HYDRATE OF CHLORAL IN SINGULTUS.—Dr. Leavitt calls attention to the value of this agent in obstinate hiccough when given in five-grain doses .- American Journal of Medical

OVARIOTOMY IN DUBLIN.—The operation of ovari-otomy was performed by Mr. P. J. Hayes in the Mater Misericordia Hospital, Dublin, on Friday, April 21. The patient was quite convalescent on May 4.

A PROSECUTION BY THE POLICE UNDER THE PUBLIC Health Acr.—Esau Lane, a schoolmaster, was last week fined £5 and costs, by the magistrate at the Lambeth Policecourt, for, knowing that his step-daughter was suffering from small-pox, having had her placed in a cab and driven, first to the house of a relative, and then to the Homerton Hospital.

Poisonous Cosmetics .- A Sanitary Commission is now sitting, at the recommendation of Dr. Hamberg, Physician to the King of Sweden, at Stockholm, to pass judgment on a certain "hair restorer," to the use of which Dr. Hamberg attributes the King's recent dangerous illness. The cosmetic, according to his analysis, contains a large proportion of oxide of lead.

BENEFOLENCE.—The Goldsmiths Company has given \$60 to the Hospital for Women, Soho-square, and the Fishmonger's Company fifty guineas to the Royal Arylam of St. Anne's Society. The King's College Hospital has received £1000 from "M. W. G.," and the London Hospital £1000 from "E. T. H."

ROYAL INSTITUTION OF GREAT BRITAIN.—At the general monthly meeting on Monday, May 8, 1871, Sir Henry Holland, Bart, M.D., D.C.L., F.R.S., President, in the chair, William S. Burton, Arthur Samuel Hobson, F.C.S., Richard Leibertel, M.R.C.S., Abraham De Mattos Mocatta, and Liward Stanhope Pearson were elected Members of the Royal Institu-tion. John Tyndall, I.L.D., F.R.S., was re-elected Professor of Natural Philosophy.

ST. MARK'S HOSPITAL FOR FISTULA, ETC.—At a special meeting of the governors of this institution, held at the London Tavern, the Right Hon. the Lord Mayor the president in the chair, D. H. Goodsall, Esq., F.R.C.S.E., was unanimously elected one of the Honorary Assistant-Surgeons.

THE PARIS FACULTY OF MEDICINE AND THE COMMUNE. -A decree of the Paris Commune declares that, "the Professors of the Fuculty of Medicine having abandoned their post," the Practitioners of each arrondissement shall elect two delegates; the Professors of L'Enseignement Libre, also, shall elect three delegates; and the internes, externes, and students, ten delegates. All these (fifty-three) delegates, having met together, will prepare a plan for the reorganisation of Medical education.

--Lyon Mcd., April 30.

SMALL-POX IN BERLIN IN 1870 .- The number of cases Shill-rox 1 Berlin x 1970—The diffraction could wish hole occurred during 1870 was 1337. Of these, 1064 has been vaccinated (127 having been also revocated), and 273 had not been vaccinated. The fatal cases amounted to 122, 58 of the patients having been vaccinated and 64 not vaccinated. The mortality, therefore, among the vaccinated amounted to 5.4 per cent., and among the unvaccinated to 23.4 per cent.-Berlin Klin. Woch., April 10.

MEATH HOSPITAL, DUBLIN.—The annual distribution of prires took place in the operation theatre of this Institution on May 3. The Medical prizes were distributed by D. Stokes as follows:—Senior Medical, to Mr. Jacob O'Connor; Junior Medical, to Mr. David Kennedy; "Martin" Junior Medical, to Mr. David Kennedy: "Martin" Junior Medical to Mr. George B. Cooksey. Dr. George H. Forter distributed to Mr. George B. Cooksey. Dr. George H. Forter distributed the following Surgical prizes :- First Senior Surgical, to Mr. the following Surgeal prizes:—First Senior Curginal, to Mr. Cecil Bushe; First Junior ditto, to Mr. Marcus Gwen; Scood Junior ditto, to Mr. Marcus Gwen; Scood Junior ditto, to Mr. Androw J. Brady; "Martin" Surgical Prize, to Mr. Hayman Thornhill. The "Martin" Medical and Surgical Prizes have been presented since last year by Dr. Martin, of Portland, to those gentlemen who send in at the close of the winter session the six most able reports of Surgical and Medical cases respectively.

PRESENTATION .- Dr. Prestwood Lucas, of Brecon, has eceived from his friends in that town and neighbourhood a handsome testimonial, consisting of a silver salver and au illuminated address. Dr. Lucas has been Physician to the Brecon County and Borough Infirmary for thirty years. We hear that the committee have still a large sum in hand to be applied in some way as a testimonial to Dr. Lucas, who has conferred for a long period of time, gratuitously, great benefits on the poor population of Brecon.

REMOVAL OF A LARGE CALCULUS FROM THE FEMALE BLADDER.-Dr. Atlee relates the case of a woman, 70 years of age, from whose bladder a calculus was removed by rapid dilatation, under chloroform, by means of Holt's dilator. stone, which was a hard one, measured $3\tau_0$ inches in its greatest circumference, and $2\tau_0$ inches in its smallest, and weighed 220 grains. Reporting upon the case four months after the operation, he says that the patient had never had any difficulty in retaining her urine .- American Journal of Medical Science, April.

EXPORTING SMALL-POX.—The ship William Storer arrived at New York, from Liverpool, a few days ago, with twelve cases of small-pox on board, out of a cargo of 270 pas-sengers; five of these have died. The Unanima barque, of St. John's, N.B., has started from North Shields for New York. with two cases of small-pox on board. Sanitary measures are of little use when epidemics prevail, unless the habitations of the floating, as well as of the shore population, are inspected, cleansed, and ventilated.

CURIOUS APPLICATION.—A respectable-looking woman appeared before the magistrates at the Highgate Police-court, on Monday, and stated that her landlord had given her notice to quit, and the notice expired that day. She wished to know ether she would be justified in taking a house, as two of her children had small-pox very badly, and one was not fit to be moved. Iu reply, the magistrate said she would not be justifield in removing in such a case, but would be liable, if she did so, to a heavy penalty, and advised her to seek advice at the office of the Local Board of Health, in Southwood-lane.

FATAL CARRIAGE ACCIDENT. - Mr. Firth, Surgeon. Macclesfield, and his wife have just expired from the result of an accident which occurred on Saturday. Mr. Firth was driving in an open carriage, accompanied by his wife, daughter, driving in an open carriage, accompanied by his wife, daughter, and a young lady on a visit from London, when the horse became restive, and started off at a furious gallop, Mr. Firth entirely losing control over it. The animal ran against some iron posts, the vehicle was smashed, and Mr. and Mrs. Firth alighted on their heads, all four of the party being unconscious when taken up. Both of them died the same day. The young ladies were greatly shaken, but are in no immediate danger. Mr. Firth had been in practice thirty or forty years, and was very highly respected.

ANNUAL MEETING OF THE SOCIETY FOR RELIEF OF WIDOWS AND ORPHANS OF MEDICAL MEN .- The annual meeting winows and Orbitans of Medical Mrs.—The annual meeting of the Society was held on Friday, April 28, at 53, Bernersstreet; Mr. Chirles Hawkins, V.P., took the chair in the insence of the President, suddenly summoned out of town. After the reading of the minutes of the last general meeting, and those of the courts of directors held since that meeting, the Chairman commented ou the small number of members present (just sufficient to form a quorum), and on the small interest taken in the Society by the Profession at large. Out of over 4000 eligible as members, only about 400 availed themselves of the advantages offered by the Society. From the number of applicants for relief, the Chairman could not think the small number of subscribers could be attributed to the the small number of supernoers could be authorized to the fact that Medical men, as a rule, could provide well for their widows and children, and consequently did not see the uccessity of becoming members of the Society. The see the uccessity of becoming members of the Society. The Secretary read a statement of the affairs of the Society for the year 1870, from which it appeared £2811 10s, had been distributed in grants, the expenses being £255 10s., an increase of grants by £106 10s, on those of the year before. The receipts of the year amounted to £3153 3s. 9d., an increase only of £19 16s, 2d, on those of 1869. The balance of available receipts over expenditure was only £11 odd. Seven new members had been elected, 9 had died, and 5 resigned, leaving a total of 429. Three widows and 5 children had been added to the list of recipients of grants; 6 widows and 8 children had died or become ineligible. At the end of the year there were 55 widows and 50 children on the books of the Society. following gentlemen were elected directors in the place of the following gentlemen were secrete directors in the place of six senior, who retired by rotation:—W. B. Kesteven, Esq.; Robert Fowler, M.D.; W. Graily Hevitt, M.D.; T. H. Tube, M.D.; Elward Cook, Esq.; and Alfred Willett, Esq. A vote of thanks to the Chairman closed the proceedings.

The death-rate in the Central Provinces of India for

The doath-rate in the Central Provinces of 140th 107 December was, per 1000—cholera 0.0, small-pox 0.0, fevers 1-3, bowel complaints 0.1, injuries 0.02, all other causes 0.2; all other causes 0.2; and 15 females); 5 from wounds (5 males and 4 females); 50 from accrident (44 males and 65 females); 40 from snake-bite and wild animals (41 males and 65 females); population 0.732.4%; And the death-rate in the North-Western Provinces for 15c and 15 cember was, per 1000-cholera '01, small-pox '03, fevers 1.58, cember was, per 1000—cnocera '01, smail-pox '05, letters 1 cs, bowle complaints '23, injuries '02, all other causes : 16; total 2 06. There were ?1 deaths from suicide (33 males and 26 females); 105 from wounds (67 males and 38 females); 234 from accident (210 males and 144 females); and 85 from snake-bite and wild animals (42 males and 46 females); population about 30,000,000.

NOTES, QUERIES, AND REPLIES.

Be that questioneth much shall learn much .- Bacon.

Dr. Clifford Allbutt's lecture on "Overstrain of the Heart" in our next. An abstract of Inspector-General Lawson's paper on "Cholera in Ships" shall appear next week.

In our number of April 8 the name of Mr. T. Decimus Price was put for Paradise in the list of gentlemen who passed the first examination at the College of Burgeons.

R. L. C .- Medical Times and Gazette, 1870, vol. ii., pp. 177, 207.

H. R.-Thanks for your note

Mr. J. P. Haver's case of bronchocele shall receive early insertion.

Birmingham .- The patentee of the deliquescent salts for watering roads is a Mr. Cooper, who, we believe, has an office in Craig's-court, Charing-

A QUERY.

TO THE BUTTON OF THE SERVICE WHILE AND OLDERTH.

Sin.—Can pen health growth of the being entertained by the reviewer of Duckenne's book, that the magneto-electric machines are only pathylings, is generally held by authorities. Duckenne himself seems to make no distinction at all between these and the volta-electric induction machines.

I am, éc., A liberature Purcusaria. achines. Clapham, May 5.

*. What was meant was—that the instruments are so constructed as to be incapable of proper scientific application. The kind of the electricity does not matter-whether volta-electric or magneto-electric-its quan tity and intensity do; and the ordinary instruments contain no means of regulating these or of applying the force to any exact spot.

R. S .- Sir B. Brodie was President of the Society in 1839.

Candidate.-The election is by ballot-one-fifth adverse votes would be sufficient to black-ball.

Z.—The facts are as follows :—On February 14, 1832, his Majesty's frigate Arethuse arrived at Plymouth with cases, past and present, of small-pox on board. The Arethusa was not placed in quarantine, sick and sound together. Instead thereof it was admitted to "free pratique." Twelve invalids were landed in that ark, the Royal Naval Hospital, where two died; but Plymouth was wholly unscathed by small-pox.

Long Forceps,-Examinations for the Licence in Midwifery of the College of Surgeons seldom occur now; we have ascertained, however, that there will be a meeting of the Board on the 24th inst. The licence is registrable. The examiners are Drs. Barnes, Farre, and Priestley, with Mr. Busk as Chairman.

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A Provincial Follow .- Mr. T. Spencer Wells will no doubt be nominated for a seat in the Council of the College of Surgeons, of which Institution he is one of the Assorary Fellows, in July next.

M.D., Toronto.-The following are the Hospitals and Schools of Surgery and Medicine in Canada from which certificates of the Professional education of candidates for the Fellowship and Membership of the London College of Surgeons are received-viz., the University of Toronto; the University of Victoria College, Toronto; the University of McGill College, Montreal; the Royal College of Physicians and Surgcons, Kingston; and the University of Laval, Quebec. The Secretary will give you the desired information.

COMMUNICATIONS have been received from-

BOOKS RECEIVED-

Annual Report of the Arcot Mission of the Reformed Church in America-Record Annual Report of the Santary Commissioner for the Central Record Annual Report of the Santary Commissioner for the Central Weman's Hospital of Philadelphia—Ph. Richadown. Discourse Practical Physic–Report of the General Infirmary Leeds—Report of the Institution for Infections Diseases, Netherfield-house, Everton-Per Principles and Practice of Midwifery, with some of the Diseases of Women, by Dr. A.Mine.

PERIODICALS AND NEWSPAPERS RECEIVED-

Pharmaceutical Journal—American Journal of the Medical Sciences, April—Food Journal, May—The Philadelphia Medical Times.

APPOINTMENTS FOR THE WEEK.

May 13. Saturday (this day).

Operations at St. Bartholomew's, 1½ p.m.; St. Thomas's, 9½ a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Prec, 2 p.m.; Hospital for Women, 9½ s.m.; Royal London Ophthalmic, 11 a.m.

BOYAL INSTITUTION, 3 p.m. Joseph Norman Lockyer, F.R.S., "On the Instruments used in Modern Astronomy."

15. Monday.

Operations at the Metropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Peter's Hospital for Stone, 25 p.m.; Royal London Ophthalmic, 11 a.m.

16. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopædie, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Hoyal London Ophthalmic, 11 a.m.

Ophthalmie, It a.m.

"Armonoise A foregraph, p. Report of the Committee on "Lardaeous Armonoise A foregraph, p. Report of the Committee on "Lardaeous Armonoise A foregraph, p. Reisburg, "Majanan Diesses of the Excision of the Kneel-joint." Dr. Bristowe, "Majanan Diesses of the Glopshame," A foregraph of the Committee of the Committee of the Reisburg, "Majanan Diesses of the Reisburg, "Warts from a Case of Egitheliona," Dr. Bische Beneut, "Intra-theories forwith." Dr. Crypt, "Blustrateno Diesses of the Eye in the Lower Animals." Dr. Payra, "Villeux Andrew," Majanan Diesses of Colon and Stomath, with Fertulant Communication between the Two," Dr. Cruckeell, "Majanan Diesses of Crysta I vertication, p. Br. Charles Brooks, "Majanan Diesses of Crysta I vertication," p. Br. Charles, "Dr. Crypta. Vertication, p. Br. Charles, "Res. "O Foregraph."

BOYAL INSTITUTION, 3 p.m. Charles Brooke, M.A., F.R.S., "On Force and Energy."

17. Wednesday.

Operations at University College Hospital, 2 p.m.; St. Mary'a, 1‡ p.m.; Middisecx, 1 p.m.; London, 2 p.m.; St. Bartholomew's, 1‡ p.m.; Great Northern, 2 p.m.; St. Tomona's, 1‡ p.m.; Samaritan, 2.50 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmic, 11 a m

SOCIATY OF ARTS, 8 p.m. Meeting.

18. Thursday.

peralions at 8t. George's, 1 p.m.; Central London Ophthalmic, 1 p.m.; Royal Orthopsedic, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m. HARVAIAN ROCIETY, 8 p.m. Clinical Communications. Dr. E. Symes Thompson, "A Case of Chronic Ulceration of Stomach, with Perfora-

ROTAL INSTITUTION, 3 p.m. Prof. Tyndall, L.L.D., F.R.S., "On Sound."

19. Friday.

Operations at Westminster Ophthalmic, 14 p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m.; South London Ophthalmic, 2 p.m.

ROTAL INSTITUTION, 9 p.m. Prof. Huxley, F.R.S., "On Bishop Berkeley and the Metaphysics of Sensation."

VITAL STATISTICS OF LONDON.

Week ending Saturday, May 6, 1871.

BIRTHS.

Births of Boys, 1111; Girls, 1107; Total, 2251. Average of 10 corresponding weeks, 1861-70, 2092 3. DEATHS.

		Males.	Females.	Total.
Deaths during the week		787	735	1522
Average of the ten years 1861-70		661'1	60000	1341.1
Average corrected to increased population	٠	***	***	1475
Deaths of people above 90		444	***	440

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1861.	Small-pox.	Measies.	Searlet Fever.	Diphtheria.	Whooping-	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Furer.	Diarrhosa,
West		458125	21	1	3	1	4	1	- 6	3	3
North	***	618210	104		11	1	2	3		- 5	3
Central	***	383321			. 3		9	1	1		1
East		571159	39	10	9		8		1	3	2
Bouth	***	773175		6	10	2	13	2	8	2	4
Total		2903989	288	17	29	4	36	7	14	13	13

METEOROLOGY.

From	Observations	af	the	Gree	moie	40	bser	rato	ry.
Mean height of									29 880 in.
Mean temperate	ire								49'7"
Highest point of									69.9*
Lowest point of						٠			36'1"
Mean dew-point	temperature								41'2"
General directio	n of wind .								Variable.
Whole amount	of rain in the v	ree	k.						0°20 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, May 6, 1871, in the following large Towns:-

	ion in 1871.*	Acre.	during	during	Ten of A	ir (F	ture ahr.)	of Air (Cent.)	Ra Fa	
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A (1871.)	Births Registered the week ending 3	Deaths Registered the week ending 3	Highest during the Week.	Lowest during	Weekly Mean of MeanDailyValues.	Weekly Mean of Mean Dully Values.	In Inches.	In Centimetres.
London	3259409	41.8	9251	1522	09-9	361	49:7	9:83	0-20	0.81
Portsmouth	125464	13.5				37 2		10.44	0.19	0.38
Norwich	81787	10.8				35.0	461	7:83	0.22	
Bristol	178364	37:0				34:3	47:6	8.66	0-09	0100
Welverhampton Birmingham	74438 378571	48.3		151		383			0.00	0 23
	101867	817	112	401	70.7	33.0	47.7	8-72	0.05	0.10
Nottingham	90450					34-2			0.08	
Liverpool	520225	103.0					48'5	9:16	0.52	
Manchester	379140	8415	259						.15	
Salford	123851	23-9			69-1	37:0		8:16	0.53	
Bradford	149630	22.2		RIG	60.6	38'8		8:66	0.14	
Leeds	266108	12.3			59.0			8:16	0.02	
Sheffield	255247	11.3					47.8	8:50	0.13	
Hull	135195	38.0			62.0	30.0	45'4	7'44	0.18	0.41
Sunderland	103037	31.8					. 1		100	***
Newcastle-on-Tyne	136293	25'5					45.0	7-29	0.15	
Edinburgh	179941	40.6				35:0		7:83	0-40	
Glasgow	477627	94:3	410				46'8		0.68	
Dublin (City, etc.)	322321	33.1	161	125	62.4	32.0	50.3	10.11	0.18	0.40
Total of 20 Towns in United Kingd'm	7336961	34'4	5307	3554	70-7	2010	47:4	8:55	0.22	0.28

At the Royal Observatory, Greenwich, the mean reading of the barometer in the week was 29.88 in. The highest was 39.13 in. on Saturday night, and the lowest was 29.43 in. at the Leginning of the week.

and the propagation of Cities and Boroughs is 1871 is estimated on the assumption that the increased and Boroughs is 1871 is estimated on the assumption that the increased and 1861; at this distant period, how-ever, since the last census it is probable that the estimate may in some instances be erroneous. The estimates for Leiesster, Nottingham, Leeds, Bradford, and Hull are based upon a local enumeration of the inhabited

The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on April 3, will probably be available before the middle of the year, and will then be substituted for these estimates.

BONUS YEAR. - SPECIAL NOTICE.

CLERICAL, MEDICAL, & GENERAL LIFE ASSURANCE SOCIETY.

ANNUAL INCOME, steadily increading ... £230,385 | ASSURANCE FUND, safely invested ... £1.707.789

The Ninth Bonus will be declared in January, 187, and all With-Profit Polisies in existence on the Sth June, 1871, will participate, so that Persons who complete such Assurances before June 30th next will share in that Division, atthough one Frenment Complete and Bishares-bests. Forms of Proposal, and every information, can be obtained of GEORGE CUTCLIFFE, Actuary and Secretary.

Natural Mineral Waters of Vals, Vichy, Carlsbad, Seltzer, Kissengen, Homburg, PULLNA, FRIEDRICHSHALL, &c., direct from the Springs; also the Artificial Mineral Waters prepared by Dr. Struve and Co. at the Eval German Spa, Brighton, and the Natural Bromo-Iodine Water of Woodhall Spa, Lineolinshire.—Agents, W. BEST and SONS, 23, Henristia-strast, Garcendiah-square, London, W.

DIABETES. -HABETES. — Blatchley's Diabetic Bran and Almond Biscuits (made in accordance with Dr. Carrian's formula) are free from Starch and Sugar, and recommended by the Profession in all cases of Daletta. The Start it is 61, the Almond at 2s 62 per lb.; or in boxe, at 2s, 10, and 29° Aloe, the Property Bran PowDeR in any quadity, E. BLATCHLEY supplies all the Loopstate in England. 385, ORTOBE-STREET (Here doors from the Fauthcon).

Britalballet 1888.

HUBBUCK'S PURE OXIDE 0 F

See Pharmaceutical Journal of May 1, 1856.

Sold in Stamped Boxes of 14 lbs. each, by the following Wholesale Druggists:-

Messre, Meron, Squire, & Francis.

Herringe & Co.

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Langtona, Scott, & Edden.

Langtona, Scott, & Edden.

Messre, Wright, W. V., & Occasionative Co. Money Baiss Brothers & Co. Mesers. Geo. Curling & Co. Harron, Harveys, & Co. Battley & Watts. Burgeyne, Burbidges, & Co. Cox, Gould, & Co. Frew, Barron, & Evans, Lescher, & Evans. Evans, Sons, & Co. Samuel Foulger & Son.

(VIDE "LANCET," MARCH 4, 1839.)

This preparation has been used by the leading Physicians and Surgeons for the last thirty years.

Dr. MACLEOD stated that it rarely produced beadache, and has repeatedly answered where opium has disagreed, and succeeded in cases where the other salts of Morphia had failed to give relief.

Dr. A. T. HIOMSON said it possessed anodyne properties superior to any of the salts of Morphia in ordinary use.

Dr. ROOTS states that he had taken every other preparation of Opium, but from none of them had obtained the same degree of quiet rest that he enjoyed from this Binnecontae of Morphia.

P. AND P. W. SQUIRE, 277, OXFORD-STREET, LONDON, W.

Calvent's Canbolised

In 1 lb.-Packets,



ls. each.

(Special Terms for Quantities in Bulk.)

Is a carefully prepared, fine, long-fibred product, which will be found very suitable for dressing wounds with offensive discharge. It has been tried and approved at King's College Hospital, Manchester Infirmary, Dorset County Hospital, and elsewhere. It is also favourably spoken of in the "British Medical Journal," Nov. 26th, 1870, and "The Lancet," Feb. 18th, 1871.

Obtainable in the usual way of Trade, or direct from the Makers,

F. C. CALVERT & CO., Bradford, Manchester,

The Original Manufacturers of Carbolic Acid for Surgical, Medicinal, and Disinfecting purposes, Carbolic Acid Soaps, Carbolic Acid Sheep-dipping Fluid, and Carbolic Acid Powder, and the sole Purveyors of these products for use in Her Majesty's Army and Navy, Emigrant and Passenger Ships. They have obtained Silver Medal, Paris, 1867; Gold and Silver Medals, Havre, 1868; Diplôme d'Excellence, Amsterdam, 1869; and Diplôme d'Honneur, Santiago, Chili, 1869.

ORIGINAL LECTURES.

ON OVERSTRAIN OF THE HEART.(a)

By T. CLIFFORD ALLBUTT, M.A., M.D., F.L.S.

GENTLEMEN,—You are very familiar with a class of cases of disease of the heart which I point out to you in the wards as consequences of physical exertion. At the bedside we have examined numbers of such cases, and I propose to-day to sum up, so far as we can in the time before us, the conclusions to which these clinical examinations have led us. In order, however, that you was all have to recommend the conclusions of the contract of the contr ever, that you may all have in your minds an example of the kind of mischief about which I am going to speak, I will relate kind of mischief about which I am going to speak, I will relate a case to you which came under my notice a few days ago.

Mr. — is a master well-sinker, and his occupation chiefly consists in directing those under him, but he sometimes aids in the work himself. He is a vigorous, well-built man, and never had adys illness in his life. Three months ago, when boring deeply, the borer became tightly fixed in the ground. A cross-bar of some length was therefore passed through the head of the upright rod, and the men pulled as more nell at a canadan har their master helping them. When men pull at a capstan bar, their master helping them. When the effort was over, the latter was conscious of having severely exerted himself, but did not suppose that he had done himself any injury. He did not, however, recover his breath as quickly as usual, and shortly afterwards he spat up some bright blood. During the remainder of the day he was conscious that something was wrong with his breathing, and he conthat something was wrong with his oreathing, and ne con-tinued to spit up small quantities of blood of a darker colour. Next day he suffered from dyspucoa on every exertion, and he still spat lesser quantities of dark, clotted blood. In a day or two still span reaser quantities or carr, cousted onco. as a way or xwo this hemoptyses ceased, and the dysponsa absted in some degree. He remained, however, incapable of any muscular effort, and gradually the dysponsa, instead of leaving him, grew apon him, so that, on my visit, it was with the greatest difficulty that he walked upstains to his bedroom, and, when there, he had to sit some minutes upon his bed before he could submit to be undressed. At this time he had an anxious countenance, and his lips were at this time he had an analous connectance, and he had a rather bloodless. His pulse was natural in rate, regular, and perhaps a little short, though not shotty. On examining the chest, the aper of the heart was found to beat in the mammary line, and not below the sixth rib, nor did its beat suggest hypertrophy. There was some pulsation in the epigastrium, and a little extension of dulness over the right heart. In addition to this, a loud rasping diastolic murmur was heard over the sternum, and was carried distinctly to the apex; there was no other morbid sound, nor was there undue accentuation of the pulmonary second sound. We determined to adopt means to bring about hypertrophy of the heart-such as nitrogenous food, rest, and the continuous use of digitalis and iron. Now, tood, rest, and the continuous use of digitalis and irum. Now, how are we to explain the state of this patient? From our ward experience, I anticipate that you will say the patient had raptured his sortic valve or valves by a sudden overstrain. I do not think, however, that the rupture was immediate. On comparing the histories of several of my cases, I find that the nortic valves may be slowly destroyed by continual slight vecestrains during a series of years; or, again, they may suddenly executation and using a series of years; or, again, they may suddenly can then may be a largie excessive effort. There is, however, a third may be a largie excessive effort or enguritation in setablished—namely, the executation and the series of the namely, the excessive effort does not seem actually to drive a valve before it, but so strains it that some leakage occurs, valve before it, but so strains it that some leakage occurs, and this leakage slowly enlarges the chink until serious regurgitation becomes possible. Such seems to have been the case with Mr. — When an acrtic valve is suddenly and case with Mr. — When an aortic valve is suddenly and at once driven down, I believe that a pang is always felt, and the sufferer has to stop work immediately. Such an accident I once saw as the result of a precisely similar effort—namely, during a pull at a capstan bar; and Dr. Todd, of Selby, has told me of another such instance which came under motion in the person of a boatman. Both these men felt a covere man and were valued large depended as the could set a more. See ha severe pang, and were placed hors de combat at once. Such an account I have also received from men who have suffered like ruptures during efforts of a similar kind. But many others, perhaps the majority, of my patients in whom aortic regurgita-tion has definitely followed a particular effort, tell me that

Vol. 1. 1871. No. 1090.

they did not succumb all at once; on the contrary, that some days or even weeks elapsed before they became much distressed, and in these persons I believe the valves are forced so slightly that the merest thread of blood squirts inwards. You have seen such spirts, so fine as almost to be invisible, occur in a weak part of a pump or syringe, and you know what power such a spirt once established has to enlarge the opening, ways. I assume, then, that some thready regurgitation takes place, and bores at the orifice until it becomes more largely patent; distress is then more distinctly felt; and the patient is incapacitated until hypertrophy brings him some case and some release.

Next, let us consider the hemoptysis. You know that in the wards I have often pointed out to you the conxistence of hemoptysis with the establishment of raivular or acritic injury during overstrain, and when such injury has resulted in aneurism (as it often does), many of you have been disposed to connect the hemorrhage with the injury to the sorts. But it is difficult to make out any intelligible connoxion between the when such a connexion is still less probable. The fact is, no doubt, that the hemoptysis is the same expression of overstrainy on the left side of the heart as is the rupture or other injury on the left side of the heart as is the rupture or other injury on the left side of the heart as is the rupture or other injury on the left side of the heart as is the rupture or other injury on the left side, In hemoptysis we always, or generally, get the same history as Mr. — gave non-annely, that is ejected at once while fresh, and the remainder is expectorated by connexion with the injury of the left heart, but is a direct result of engogrement of the right heart and langs. Not infrequently hemoptysis is the only result of overstrain, bright blood being spat up at first, and pellets of darker blood being spat up at first, and pellets of darker blood being ejected for a few days more, when the patient may wholly recover his health. In such cases the left heart has borne the strain without lill effects. Now, if we divide beart and aortic diseases, as the results of strain, into two classes—the one containing cases of one effort, and the other (and more numerous) class containing the cases where the mischief is a chronic period of verwork—if, I say, we divide our cases (as we usefully may only in the heart of the chest is firmly fixed.

ptysis than those in which the chest is firmly fixed. In many cases the chest is fixed by the massles, as when men are pulling at a lever with the arma, or lifting heavy weights; in other cases the chest is afficially fixed, as in the drilling of soldiers, who are bound in breast-straps, or in the use, by bargees, of a puning-point favour passing through the lungs at the increased rate which is required. The arteries are compressed, moreover, by universal muscular tension, and the heart spulsations are accelerated; if, then, the chest be naturally or articially narrowed, the lungs cannot expand in due proportion, and hemorrhage takes place. A somewhat different event comes about in more chronic cases. When persons with narrow or narrowed chests are constantly over-certing themselves, which is very hard to care; or, again, if the chest be ample but the food unequal to the excessive combustion required for bodily work, the same tendency to dilatation of the lung capillaries and the right heart is seen. A slight chill in such some content of the such as the t

Aortic regargitation and pulmonary homorrhage, then, are neutronimon results of single efforts. Let us now turn to the results of lesser efforts anduly prolonged. Here, as I have said, we do not meet with primary hemorrhage from the lungs, but rather with that gradual dilatation of the right heart of which

⁽a) This lecture has been delivered for some time as a part of the course on Principles and Practice of Medicine at Leeds. The matter is treated more at length in a paper in the recently issued volume of the Reports of St. George's Rosnital.

I have already spoken. But nortic regurgitation is still a common, if not the commonest, result of this kind of overstrain. The cusps are not driven suddenly down, nor even dislocated, but, being subject to continual stress, they become opaque, thickened, and sclerosed (chronic endocarditis). Cicatricial or ulcerative (lupoid) action follows next, and incompetence is slowly established. I say, is slowly established; for when cusps are thus toughened, they resist the inroads of regurgitant spirts for a much longer time than the filmy cusps of health can do. In these persons, therefore, aortic regurgitation is set up so gradually that hypertrophy arises pari passa, or nearly so, and they are not incapacited until a later period. How common are such states of the heart in towns of heavy labour, like Leeds, you all well know who attend on my out-patient days, and you have also followed many such patients under my guidance through the wards and into the post-mortem During this stage I have often pointed out to you the establishment of another lesion—namely, endo-arteritis of the aorta, with loss of elasticity and distension. This results in varying measure, directly or indirectly, from overwork in such persons as hammermen. It may be a direct result of the exces-sive work of a strong heart, for the aorta has no great capacity of increasing the natural resistance of its tissues; it may undergo some corresponding hypertrophy, but not much.
When the result is indirect, it is the direct consequence of the violent thud of a ventricle hypertrophied in obedience to aortic regurgitation, the latter being the direct result of strain. But, whichever be the mode of initiation, the phenomena are the same—namely, miliary lesion of the coats of the arch of the aorta, resistance in the shape of a more or less unsuccessful endoarteritis, and dilatation of the vessel; with the clinical evidence of spasmodic dyspnora, pulsation in the episternal notch, dulness over the upper sternum, and a blowing systolic murmur in the same region. It is about this time, perhaps, that our one remaining ally fails us. I cannot say that the left ventricle betrays us, for it makes a hard fight for life; but in time—a time which varies according to the circumstances of the intime which varies according to the circumstances of the in-dividual—it gives way; its newly-gained bulk degenerates and recedes, partly degenerating from voluntary muscle into mere connective fibre, partly melting away as fat. I have constantly confessed to you that it is hard to say why the newly-gained balance is thus lost again. I once thought it was due to blocking up of the coronary artories by endo-arteritis; but a few and only of the condany anothes of cand-attentia; but a less autopaics seeming to prove this are me by others in which I have found these arteries, on the contrary, to be much enlarged and fully patent. It may be that the advancing flacelity of the atheromatous norta and the loss of valve-flooring put an end to the filling of the coronaries in arterial systole. This may account for some cases, but not for all. There seems to be some secret in the wasting of hypertrophied muscles after a certain period, which we cannot as yet penetrate. It does not seem to lie in the attitude of their nerves and bloodvessels, for seem to he in the actitude of their nerves and discoursesses, for these enlarge part passu, and so, I suppose, do the correlated nerve centres. The fact, nevertheless, seems to be certain, that a hypertrophied heart, like a fileculter's bicepa, does waste after a time. When this happens, the newly-gained balance is destroyed, and the circulation comes to an end. The left ventricle dilates and becomes inherently enfecbled; the previously hypertrophied papillary muscles waste in like manner; mitral regurgitation is added to aortic; and the machine is stopped. Once more: You remember we have repeatedly seen that mischief, sudden or gradual, like that which we have described, may affect the aorta alone or in the first instance. described, may are the sorts and the state of the same effort which in one man drives down an aortic cusp, in another cracks the brittle lining of the aorta. The blood-current searches it as it searched the chink of a dislocated valve; the coats are dissected, and sacculated ancurism results. We have seen this in the case of -, who died in No. 2 the other day, and whose aneurism was caused by his being caught up in the gearing of some machinery, and his chest crushed. Mr. Teale and myself, again, were called, about two years ago, by the West Riding magistrates to certify to a like cause of aneurism in a police constable, whose chest had been crushed, in the exercise of his duty, between a moving cart and a wall.

In other case, as we have seen in the heart, the mischief creeps on gradually. A forgenan, let us asy—and more especially those men who, like moulders, have to lift heavy weights—is constantly throwing stress upon the left heart. The venticle grows; the sorts can grow but little, if at all; balance is thus disturbed, and the heart's impulse becomes more than the resistance of the aorta. The sorts thus suffers what I generally term at the bedside "miliary lesion"; repair in the form of endo-arteritis is attempted, and often, no doubt, is

attempted successfully so far as particular patches are con-cerned. (b) On the whole, however, the vessel loses elasticity, and loses uniformity; atheromatous abscesses and ulcers are fermed. It yields, and pouched or saccular aneurisms result, according as the yielding is general or is circumscribed. Not infrequently, as you doubtless remember, we find both forms; the whole arch may be dilated, and we may also find two or several widemouthed sacs without clot, or with but little clot, opening into it. It is astonishing how long in such cases the aortic valves may remain competent; they are often competent, although opaque and thickened, up to the last. Such, gentlemen, are some of the chief results of overstrain of the heart, sorts, and lungs. As we should expect from the uniform character of the causation, we find that these cases form a natural and easily causation, we find that these cases form a natural and easily recognised class; so much so, that we do not find it difficult, apart from their history, to dissociate these cases in arong young men from those in which the heart-mischel is due to theumatism. In our wards you know the "mechanical hearts" are as familiar to the class, and are as easily interpreted, hearts are as familiar to one cases, and are as easily merpro-as the "fleumatic hearts"; and it is a matter of surprise to me that they are not as clearly asknowledged and described in your text-books. When we pass on to discuss their treatment I shall have to tell you that in digitalis we have our chief means of encouraging compensatory hypertrophy, and of sustaining it when present, and that by means of nutritious diet (nitrogeness, Parkes), digitalis, iron, and rest, we may do a great deal to bring comfort to these sufferers, if not to enable them to return some light occupation. Unfortunately, in the lower ranks of life we do not see them until the mischief has attained sme serious proportion, and in these patients loss of working power too often means also loss of nitrogen.

ORIGINAL COMMUNICATIONS.

NOTES

ON THE PATHOLOGY OF MALIGNANT NEW GROWTHS.

By HENRY ARNOTT, F.R.C.S., Assistant-Surgeon to the Middlesex Hospital, and Lecturer on Surgical Pathology in the School.

т

Introductory—Necessity for an Anatomical rather than a Clinical Classification of Thinours—The Degrees of Malignosity and with—Importance of Examination of Thin Sections—Value of Scrapings for Diagnostic Parposes.

Lower of a prolongies for the appearance of the series of papers of which this is the forerunger, a sufficiently assign apology is offered by the fact that at the present time, perhaps no term is used more varguely and yet with more caution as misgiving, both by pathologists and by practical Surgeon adialog, than the term "cancer." Here in England the dictinical significance is still foundly adhered to; and abbased administration of the series of

Now, I think that in this matter we Surgeons might very

(b) Since this lecture was delivered and written out, a paper, by Dr.

Moxon, has appeared in the Guy's Reports for this year, in which this quertion is ably considered, and I venture to think with like results.

profitably take a lesson from the Physicians. It is only quite lately, long since the microscope has come into general use in Medicine, that the various diseases of the lung, formerly grouped under the heading "Consumption," or phthisis pulmonalis, have been recognised and classified; and, although the old term may still be a convenient one for common use outside the Profession, I suppose that few Physicians will long rest satisfied with being told that a given case is one of phthisis. They will further inquire whether it be a catarrhal pneumonia, or an interstitial pneumonia, or a chronic tuber-culosis, and the answer to the inquiry will greatly affect the prognosis as well as the immediate treatment of the case. Just in like manner it behoves us to recognise that we can no longer content ourselves with the assertion that a given case is one of As a vague term implying a malignant tumour, it may be clinically serviceable to retain it in common parlance; but we must not forget that there are as many forms of cancer, in the clinical sense of the word, as there are of phthisis; and to give a reliable prognosis-nay, even to decide upon the suitable treatment—we must look further; we must see to suitable treatment—we must look further: we must see to what special class of malignant growths the case properly belongs. It is the main object of this series of papers to pre-sent, in as clear a way as possible, the present stage of this inquiry; and, in order to render them practically useful, I shall avoid as far as possible entering into the disputes of the Schools and all the more recondite problems which suggest themselves to the pathologist, and limit myself to a brief account of the structure and mode of growth of the common forms of malignant tumours, and the manner in which this structure may most readily be made out, briefly hinting at the same time at the bearing of the point upon the diagnosis and prognosis of the several varieties. And in order further to clear the ground for an anatomical classification, it may be pointed out at once that what may be termed the clinical classification is extremely defective. What, for instance, can be more unsatisfactory than a diagnosis which must await for its confirmation the return of the tumour or the infection of distant parts of the body? And if we are told that the confused blending of the tumour with the surrounding structures, causing adhesion to skin and the parts adjacent to the growth are sufficient evidences of malignancy, I reply that even this sign is very delusive; for I have seen a growth so harmless to health, as the "recurrent fibroid" of Mr. Paget, infiltrating the fat and muscle in its neighbourhood as completely as the most virulent cancer; and, on the other hand, I have seen an apparently encapsuled cartilaginous growth in a testicle folapparently encapeused cartiagnoous growth in the lumbar consideration of the property of the control of the control clands and uncountered secondary growths in the lumbar which I wish to draw special attention, and I would that we could speak more dograatically upon it—amongst the infiltrating tumours, some are far more truly malignant than others, and the degree of this malignancy—in other words, the prognosis of a tumour-can only be definitely settled by the microscope. Of course, it is not meant by this that the microscope is an infallible guide in the prognosis of tumours; if it were so, no Surgeon could honestly practice his art within it is aid. Within the last few year, instances of malignancy associated with almost every kind of new growth—cacepting, perhaps, the simple lipoma or tumour of adipose tissue(s)—have been recorded to the confusion of Surgeons; but these instances must be regarded as exceptions to ordinary pathological rules, and need not in any way deter us from trying, at some no distant period, to deduce from the large number of rapidly accumulating observations certain general laws as to the relation of anatomical structure to clinical history and

It is not intended on the present occasion, however, to introduce the more harmless of tunnors, but rather, as the title of the papers sets forth, to deal only with those new growths which, having tendencies to infiltrate the tissues amongst which they lie, and to exhibit other features of malignancy, are usually included by English Surgeons under the term "cancer."

In our investigation of these tumours, the term malignancy will be in constant nse. Let us, then, pause on the threshold of our inquiry to settle definitely what especial meaning we attach to the word. By "malignancy," then, we imply such

an energy of growth as baffles in a greater or less degree the Surgeon's interference. And it is convenient to speak of three degrees of malignancy—viz. (1) The persistent recurrence is ces after apparently complete removal by the knife; (2) the tendency to infection of the nearest chain of lymphatic glands with the same morbid growth; and (3) the possible combination of one or both of these conditions with a proneness to the formations of other like tumours in distant parts of the body, and especially in the lungs and liver. Each of these degrees of malignancy may profitably engage our attention in the introductory notes, in order that subsequent reference to them may be rendered more intelligible.

The control of the co

I have so often, on making thin sections through the margin of a growth and into the adjacent structures, discovered a real infiltration of microscopic elements where no naked-eye confusion of tissues had been apparent, that I am satisfied that the explanation of the great majority, if not all, of the instances of speedy recurrence in loca familiar to Surgeons is not that the tissues of the part have taken on a special tendency to the production of a morbid growth which is not to be arrested by free use of the knife, but that, in fact, elements of the growth are left behind by the operator, and comence of the growth are fer to bening by the operator, and sooner or later develops into fresh tumours. Let me give two illustrations of this kind of infiltration:—I had not long ago an opportunity of examining some secondary tumours in the lungs of a patient dying with what was said to be cancer of the netwa. The peculiarity about the secondary growths was the nervis. Ine pecularity about the secondary growins was apparently encapsuled, shelling out result) on readily on rectors of blending with the surrounding lung tissue met with in cancer. Careful examination, however, showed that the growths were made up of small spindle cells only, and that colls cancilly similar to those of the tumours were to be cause exactly similar to those of the tumours were to be traced shooting out freely amongst the connective tissue of the alveolar walls and vessels of the neighbouring lung. On another occasion I remember assisting at an operation for the removal of a soft tumour recurrent amongst the muscless of a removal of a soit tumour recurrent amongst the museus of woman's buttock. The growth appeared to be clearly encapsuled; at least, there was no great difficulty in enucleating it from its bed and turning aside the museus stretched about it. Nevertheless, this was already a recurrent affair, and since that time two more operations have been performed upon the same woman. This led me to make a careful examination of the tissnes surrounding the growth and partly removed with it at the last operation. I found the structure of the tumour to consist entirely of the out-shaped cells constituting the growth known to English Surgeons by the name "recurrent fibroid"; and stretching out into the fat and muscle on all sides were crowds of similar cells, invading and breaking up the muscular crowds of similar cells, invading and breaking up the muscular fibres and separating the large oil cells of the adipose tissue— in fact, the tumour was a genuin infiltrating growth. Here, the control of the second of the control of the control of the had been so repeatedly manifested, for the infiltration had probably been present in the carlier tumour, although in a less degree, perhaps. And the examination of these and similar cases surely teaches us this great practical lesson—namely, that, excepting porhaps in distinctly encysted

⁽a) And even here we must speak with caution; for Mr. Chuling has harrated a case in which a fatty innear recurred the times in the scretcus, in spite of very careful removal. This case was prjorted upon for the anal, in the opinion of these publication, the recurrence was to be explained by an active connective times growth accompanying the fat development, the contractive of the publication of the public

growths, the Surgeon can hardly err on the side of to free use of the knife in the reneared of tumeurs; nay, one may sven affirm that the old operators who removed with one sweep of a red-hot knife the whole of a cancerous breast, with its covering akin, more truly served their patients than de such modern Surgeons as are careful to remove only the scirrbous nodule, leaving the nipple and as much akin as possible, that the gaping wonnd may not unnecessarily alarm and disfigure the patient. Of course, in thus attempting to explain the frequent cause of immediate recurrence of tumours (what Thiersch has called "continuous recurrence") by particles of the morbid growth being left behind by the operator, it is not intended to despread the surgestion of the contract of the con

nongnt that such a mode of recurrence is absolutely denied. The second degree of malignancy, in which the nearest chain of lymphatic giands is infected with the morbid growth offers also some points which need considerations are also some points which need considerations are also some points which need considerations are also some points which need to make a second to the primary tumour from which the infection has pread. At least, in all the cases which I have myself examined this has been the case, and I have not met with a single reported exception to the rule which has borne the test of carval scrutiny. It is, indeed, very scidom possible to trace the morbid elements extending the lymphatics were visibly distended with what scened to be cancerous material, once leading from a scritnous breast to the axillary glands, and another time stretching away from a soft cancer of the uterus; thu such easily recognizable examples of lymphatic infection are very rare. When it is stated that the disease affecting the lymphatic glands is always identical with that this does not reclude instances of medullary or soft carnoma appearing in the axilla secondary to a scirnous nodule in the breast. The real identity of hard and soft cancer (restricting the term to its anatomical sense) will hereafter be considered; but it may be mentioned at once that the secondary growths spreading from a scirnous ancear are hardly ever so hard as the original tumour, and they may present very coincid structure. Softness without losing their distinct anatomical except without interest the coincidered, but it may be mentioned at once that the secondary of considered, but it may be mentioned at once that the secondary of considered, but it may be mentioned at once and the may present very considered, but it may be mentioned at once and the foundary of the considered, but it may be mentioned at once and the foundary of the considered.

Again, certain cases occasionally present themselves in which be lymphatic glands, swollen and indurated, yet gradually subside after the removal of the tumour which apparently infected them, and these are sometimes said to be instances of eancer of the glands, disappearing upon the removal of the primary cancer. From what we know of the nature and habit of cancer, however, it is not probable that this ever takes place. It is more likely that these are glands in a state of what Dr. Sanderson has called fibroid induration, due to prolonged irritation—case, and due to a certain pathological process, in which the delicate fibrillar network which normally supports the corpuscular elements of the gland becomes commously thickened and increased, gradually pressing aside the corpuscles, and materially affecting the function of the gland.

delicate fibrillar netwerk which normally supports the conpacular clements of the gland becomes enormously thickened
and increased, gradually pressing saids the corpuscles, and
materially affecting the function of the gland. The state of
induration may appear, there are not wanting those who
regard it with considerable suspicion. Thus, Mr. Birkett
has known a case of return of cancer in the glands five or
six years after the removal of a scirnboss breast, the glands
at the time of the operation showing ne sign of genuine
concerous infection. And MM. Cornil and Ranvier attach still
greater importance to this fibroid induration, as lending support
will be subsequently made. Perhaps the point of greatest
practical importance in this connexion is the comparative frequency of lymphatic gland implication in the several forms of
malignant disease. This is a question requiring much further
investigation and more numerons observations than are as yet
at our disposal. Dr. Billroth, the eminent pathologist of
Vienna, was one of the first to draw attention to the fact that
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marked secondary enchemiroms in the lymphatic glands, and I do not remember to have seen a single case of true automical concert remember to have seen a single case of true automical concert remembers and the secondary of the s

(To be continued.)

A CASE OF ECCENTRIC EPILEPSY (HEPATIC).

By JAMES C. KERR, L.R.C.P. & S. Edin.

Ir has occurred to me that the case I am about to relate is a good example of this form of disease, besides presenting

good example of this form of disease, besides presenting interesting features peculiar to itself.

The patient, A. R., a nurse in a gentlemant's family, was the subject of a coroner's inquest. Her age was 24 years. I was called on a Sunday aight, soft the subject of a coroner's inquest. Her age was 24 years. I was called on a Sunday aight, soft the kitchen floor. She had an indicately did from apures. Moreover, the blackness of the face, the awellen, livid lips and tongue (the latter fixed between the teeth), and the foam from the mouth unmistakably sexpoke an epileptic fit. However, the suddenness of her desh, which may almost be said to have been instantaneous, painted to some other hidden cause. A post-mortem examination being ordered, I carried this out with the assistance of Dr. Lander of the subject of the subject

Such was the result of the examination, showing, I think-plainly the part played by the liver in inducing the epidepic fit; and also of hastening the fatal issue by its mechanical pressure apon the lungs and heart. As regards the general history of the patient, it is remarkable that she, if the eridence of her friends be accepted as true, had never been laid up from illness, nor needed Medical advice, and that the fit which proved fatal was her first and last. Certain it is that during the knewn to be fill, except from occasional sciences, which can

readily be accounted for by the pressure of the tumour upon the stomach.

18, Balls-road, Claughton, Birkenhead.

THE COMBINED ACTION OF IODIDE OF POTASSIUM AND OZONIC ETHER

IN THE TREATMENT OF CONSTITUTIONAL SYPHILIS AND OTHER DISEASES IN WHICH IODINE IS INDICATED.

By JOHN DAY, M.D., M.R.C.S.

In July, 1867, a case of well-marked constitutional syphilis came under my care, which, for more than six months, resisted all the usual remedies, and ultimately made a rapid and permanent recovery under the combined action of iodide of potassium and ozonic ether

The patient, a respectable married woman, aged 32, had been the subject of neglected syphilis for about eight years— having been infected by her husband, who, at the time of his marriage, was suffering from a urethral chancre, which he had been led to suppose was only a gleet of a non-contagious character.

During the whole of this long period she had been kept in ignorance of the true nature of her disease, and no specific treatment had been adopted for its cure. The most prominent treatment had been adopted for its cure. The most prominent symptoms which at this time presented themselves were—copper-coloured patches of peoriasis scattered over various parts of the body; pains in the nasal bones, and an offensive discharge from the left nostril; hourseness, and a feeling of dryness and tenderness about the threat; and a troublesome ough, accompanied by copious muco-purulent expectoration, loss of flesh, great debility, and night sweats.

A careful examination of the cliest convinced me that the

lungs were free from tubercular deposit, and the only mischief I could detect was chronic bronchitis, which, as it did not yield to the usual means, and quickly disappeared with the syphilitic symptoms, I am disposed to think was of syphilitic

From the commencement she was placed on a light nourishing diet, with a moderate allowance of wine and beer. Among the remedies employed during the first six months of treat-ment were—iodide of iron, with cod-liver oil; green iodide of ment were—tolide of tron, with coci-iver oil; green toids of mecury; perchloride of mercury, with compound decoction of mecury; perchloride of mercury, with compound decoction of does gradually increased from five grains to half a draohm; and calonel vapure baths. At the expiration of this time, with the exception of the patches of psoriasis having given place to brownish-looking blotches. It could observe no improvement in the patient's condition. Her cough was more harssing, she was weaker, and she had almost entirely lost her voice, and

spoke only in a whisper.

Having now exhausted most of the known remedies, I ventured on an experiment, which, fortunately, was attended with most satisfactory results. It occurred to me that, as the therapeutic properties of iodide of potassium were probably due to the small amount of iodine which was set free by dedue to the small amount of lodine which was set. Free by de-composition of the salt in the blood and tissues, a plan might be devised for liberating it more freely whilst in the circula-tion. With a wiew to attain this end, I prescribed iolide of potassium in doese of from four to eight grains dissolved in water, to be taken three times a day; each does to be followed on the contract of the contract of the contract of the described which are the contract of the proper mixed in a wire-clearful of, which was the contract of the proper mixed in a wire-clearful of, which was the contract of the proper mixed in a wire-clearful of, which was the contract of the proper mixed in a wire-clearful of, which was the contract of the proper mixed in a wire-clearful of, which was the contract of the proper of the contract of the proper of the contract of the glassful of water.

I may here mention that the ether I then used was some that had become highly charged with peroxide of hydrogen by a process of natural change, which takes place, more or less, in all the others and essential oils which have been long exposed to the influence of light and heat. I now use in preference that prepared by Mr. Robbins, of Oxford-street, and sold under the name of ozonic ether. It is of a uniform strength and

great purity.

great purity.

The weduse operandi of this method of liberating the iodine from iodide of potassium whilst in the circulation may be explained as follows:—Iodide of potassium is a salt possessed of a very high diffusion power, and speedly passes into the blood, from which, however, when administred in the usual way, a large proportion of each does is almost as speedly the provided of the proportion of the peroxide of hydrogen (or, as it is more commonly called, ogonic

ether) is a substance which also has a high diffusion power, and passes very quickly into the blood, where, by the estalytic action of the globules, its oxygen is transformed into cone, which, on meeting with the iodide of potassium in the circulation, decomposes it, and sets the iodine free. Although I believe this to be an approach towards the true explanation of what takes place when iodide of potassium and ozonic ether meet in the circulation, it is sufficient for my purpose to state that, without the intervention of blood, jodine is liberated from its combination with potassium by the action of ozonic ether

My own experience in this mode of exhibiting iodide of potussium enables me to speak very favourably of it. The patient whose case I have related so rapidly improved under its action that, in a few weeks, she had lost her cough and com-pletely recovered her voice. The treatment was continued for pletely recovered her voice. about six months; but, long before the termination of that period, every symptom of syphilitic mischief had passed away, and she was left in the enjoyment of excellent health.

I have been in the habit of seeing her constantly, and am in a position to say that she has not had the slightest relapse.

I have, at the present time, a gentleman under my care who is suffering from what I believe to be a syphilitic affection of the liver; and he has already derived great benefit from the

iodide of potassium and ozonic ether.

This method of exhibiting iodide of potassium may, I think, be usefully applied to the treatment of other diseases in which iodine is indicated.

Geelong, Australia.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

DISPUTED POINTS IN THE DOCTRINE OF SYPHILIS.

(Continued from page 512.)

In no subject, perhaps, is dutring of so much importance as in syphilis. Thus, it is difficult for a man who has not made the subject a specialty to see a sufficient number of cases to enable him to form just conclusions. Indeed, it may so happen that the few he sees are of that exceptional kind only occasionally seen by those even in large practice, and so his conclusions may be hopelessly at variance with those of the mass of the Profession. It is for this reason that a collection and comparison of the views of those whose opportunities for seeing the disease are most ample is so desirable. Here, for instance, is a most instructive case forwarded by a well-known authority in Liverpool :-

"I see that you are collecting facts upon hard and soft chancres; allow me to add my quota. For some years I was one of three Honorary Surgeons to the Liverpool Workhouse Infirmary, and had under my charge a weekly average of fifteen women of the town, varying in their status from the lowest to the highest class of prostitutes-the former being in the greater numbers. I had not been in office a month before I was struck with the rarity of what I had been taught to regard as chancres-i.e., hard sores. As my experience increased this attracted my attention the more, and I soon fell into the routine plan of treating every sore with a ten-grain solution of nitrate of silver, and nothing else. The average duration of the treatment was ten days. It was very unusual to find a patient uncured at the end of a fortnight. Where so many persons had to be seen in the other wards, the time I assigned to venereal cases was short; I simply felt the sore, and if soft said, 'Nitrate solution.' After having been officer for about two years, there seemed to be an epidemic of hard sores, over which the argentine dressing had no influencemercury was required for all. In some of these cases buboes followed, and secondary symptoms. I do not remember one such accident having occurred in those who had soft sores,

"Being interested in these matters, I talked over the subject with my colleagues, now dead, and we found on comparing notes that each had made the same observation. I can only remember one case of soft sore in which it was necessary to give mercury, and as this was a curiosity in its way, I will give a short account of it:—

"E. L., aged 21, a school-teacher, proper, but not prudish, went to stay with some friends in lodgings in the Isle of Man. Whilst there (about a fortnight) she was never out of the sight of one or other, except when at the water-closet. She went to bed and slept with a female relative ; yet, on the day of her return home, she complained to her mother of pain about the vulva, and after a time was brought to me with a large soft sore inside the right labium. There was no mock-modesty about the case, and, though certain of its venereal nature, the evidence against the complaint having been contracted in the usual way was very strong. She had never had a sweetheart, nor was any young man in the house where she was. The hymen was unbroken. Ere any improvement ensued, the girl had typhus and was very delirious; but when I examined the vulva, etc., there was no allusion to anything or anyone. After recovery, the sore remained as bad as ever; and at last, three weeks after the fever, I was resolved to give mercury. The effect of this was apparent in two days; the parts were perfectly healed in ten. As I cannot yet make up my mind to believe that this sore was contracted by sitting on a foul water-closet, I will not sk my readers to do so.

Now, with regard to our second query—"What are the relations between the lesions of the infecting and infected parties?"—whate in a very considerable number of instances had the reply, "They are similar"; but from a few, as might be anticipated from the answers to the first query, we have received different replies.

Mr. J. R. Lane says—"I believe a soft sore may communicate a hard sore, and vice versit."

Mr. Gascoyen also says—"I have not had many opportunities of examining both the infecting and infected parties, but in the few instances where I have been able to do so I have found sometimes a similar condition of sore in each, but at others not so. I should expect to find in a majority of cases a similarity in the primary lesions of each, but I am quite satisfied that such is not invariably the case."

Mr. Berkeley IIIII gives similar evidence. He says—"According to my experience, Bassercau's dictum is correct—namely, if the injected person has constitutional syphilis the cottaminatiny person has it also—but I cannot give any evidence to prove that a particular kind of sore generates its like. I can say this much against it—namely, that the women who have propagated syphilis within my observation are usually affected with mucous patches of the vulva—yet the men so infected have had the different varieties of initial syphilis (the so-called infecting sores), and never 'unucous patches' at the point of contagion. I believe a great number of veneral sores are simply the result of local irritation, and are not eaused by any specific contagion, whether syphilitic or otherwise."

Mr. Langston Parker says.—"A soft chancre in the woman may produce in the man either a soft or a hard chancre."

Mr. Buxton Shillitoe holds that soft sores will only produce simple soft sores, but suppurating or irritated general sores, whether primary or secondary, will produce in a virgin subject constitutional syphilis.

To give some explanation of the above statements, we would recall to the minds of our readers that the poculiar secondary symptom known as a monous patch is exceedingly common in women as compared with men. Their chosen, though by no means their sole, site is the border-land between skin and mucous membrane, as upon the lips (at their angles) and the labis in the female; warmth and moisture foster their growth. It was first observed by Riccoyl, but has been since abundantly

proved by others, that primary sores situated on such spale may during the process of healing assume the characters of a mucous patch; or, in other one primary may become a secondary sort of the process of the primary may become a secondary sort of the process of the primary may become a secondary sort of the primary sort of the primary may be great cause of mucous patches is filthy habits and wast of cleanliness among the lower grades of prostitutes. Among these they are excessively prevalent, and these are the class who do most to propagate syphilis. Bumstead has remarked the same in New York.

Then, again, when a chancre has fatiry headed, leaving only a slight patch of induration, this may again give way it is they like they like the phagedens are some some sever. Nor should it be being the single state of the sing

The fourth inquiry—"What are the relative proportions of hard and soft sores asseen by you?"—has elicited replies which would serve to show that these vary in different practice asd in different practice asd in different practice and in different practice and in different practice and in different practice and in different practice says.—"Lately the proportion has been one hard to five soft; this is above the average. One to eight or ten would be nextre the mark."

Mr. Gascoyen thinks the proportion assumewhere about three cases of soft sore to one of hard." Mr. J. R. Laspeaking wife and the soft sore to one of hard." Mr. J. R. Laspeaking wife the soft sore hard. Dr. Barton, Dublin, thinks they are as two to one; whilst Dr. MtDonnell, of the same city, say--"! do not use the terms hard and say!, but if they are itended to mean syphilitic and simple, then the simple sores are about four times more numerous than the sphilitic."

On this particular subject Mr. Berkeley Hillhastaken unusulpains to be accurate. He says:—'In 1889, among the male out-patients at the Lock Hespital, I had 1887 individuals under observation; of these, there were 675 cases of veneral ser. In 201 the patients were under observation long enough for the local nature of the disease to be ascertained. In 40, the sores were accompanied or followed by symptoms of contintional disease—i.e., skin eruption, sorethroat, etc. In 7,1 sores had hard bases and enlarged inguinal glands, but subthey were seen only once or twice, and then ceased to attechthey have been reserved for a 'doubtful' category.'

on this subject the statistics of Fuchs are founder are ordinarily quoted. Amongst 10,000 sorres, Fuche found 195 indurated chancers and 804 soft chancers—the found 195 indurated chancers and 604 soft chancers—that one hard to four soft were soft, which is more than which two. But another remark of the same subther is well worth notice; he says, "In private practice the single chancer is rarer than the syphilitic chancer. I have been especially struck with this difference, which may be expressed in figures as follows:—Ont of 334, 82 were simple sorre and 20 infecting sores." It is, at least, pleasing to find that in this country hard sores are much less frequent, although east affirmed, especially in Dublin, that syphilis following active is much more frequent than abroad. It is, all provides a salrendy pointers are some form of the sort of the probability of secondaries of the sort of the probability of secondaries of the sort of the sort

(To be continued.)

EDINBURGH ROYAL INFIRMARY.

USE OF THE ÆSTHESIOMETER IN DIABETES.

PROFESSOR LATCOCK lately called the attention of his class to the fact that anesthesia is one of the morbid conditions in diabetes mellitary and the control of the morbid conditions in diabetes mellitary of the cutaneous glands depended upon centric neurosis, of which the hunger, thirst, and abnormal productions which characterise the disease are also signs, it is this defect in trophic innervation of the skin which predictions that the productions which characterise the disease are also signs, it is this defect in trophic innervation of the skin which predictions and the prediction of the skin which predictions and approach of the skin as determined by him in two cases of diabetes shilling and as compared with the normal sensibility and eith that of pooriasis. The localised dimination is suggestive.

Comparative Cutaneous Sensibility in Diabetes Mellitus. Case 1 .- John C., Medical Ward No. 1.

		THE ÆSTRESIONETRIC DISTANCES ARE, IN-										
	Fore-arm.	Palm.	Deltoid.	Inter- scapular.	Anterior Surface of Thigh.	Posterior Surface of Thigh.	Leg.	Sole of Foot.	Dorsum of Great-toe.	Over Malar Bone.	Average	
Normal state Diabetes mellitus—right side Ditto—left side Psoriasis vulgaris	1 inch 1 in. 8' 1 in. 9' 1 in. 2½'	5' 7' 7' 8'	1 in. 6' 3 inches 2 inches 1 in. 7½'	1 in. 9' 2 in. 11' 2 in. 4' 1 in. 10'	l in. 4' l in. 10' 2 inches l in. 5'	9' 1 in. 10' 1 in. 10' 10'	2 inches 2 in. 4' 2 in. 2' 2 in. 2'	7' 1 in. 8 in. 10'			8 lines. 51 lines 2 lines.	

Note.—The most marked diminution of sensibility in this case is manifested by the region over the right deltoid and infra-spinatus muscles. A similar defect is notably present on the anterior and posterior surface of both thighs.

Comparative Cutaneous Sensibility in Diabetes Mellitus. Case 2 .- William M., Medical Ward No. 2.

		THE ÆSTHESIOMETRIC DISTANCES ARE, IN-										
	Fore-arm.	Falm.	Deltoid.	Inter- scapular,	Anterior Surface of Thigh.	Posterior Surface of Thigh.	Leg.	Sole of Foot	Dorsum of Great-toe.	Over Malar Bone.	Average	
Normal state	1 inch	5'	1 in. 6'	1 in. 9'	1 in. 4"	9'	2 inches	7	7'	5'		
Diabetes mellitus-right side .	1 in. 5'	6'	2 inches	2 in. 6'	2 in. 2'	1 inch	2 in. 5'	7'	1 in. 3"	7'	5 lines.	
Ditto-left side	1 in. 5'	6'	2 in. 2'	2 in. 8'	2 in. 4'	1 in. 1'	2 in. 1'	8	1 in. 2'	7'	5! line	
Psoriasis vulgaris	1 in. 21	8' :	1 in. 71	1 in. 10'	1 in. 5'	10'	2 in. 2'	10'	10'	7'	2 lines.	

auterior and posterior surfaces of the thigh below.

BIRMINGHAM GENERAL HOSPITAL.

HEREDITARY BRONZE COLOUR OF THE 8KIN SIMULATING ADDISON'S DISEASE—INTRA-THO RACIC ANEURISM (), WITH A REMARKABLE COL-LATERAL VENOUS CIRCULATION OVER THE CHEST AND ABDOMEN, ESTABLISHED FOR THE RELIEF OF THE SUPERIOR VENA CAVA.

(Under the care of Dr. JAMES BUSSELL.)

Case 1 .- The interest of this case lies in the contribution it makes to the clinical history of that form of coloured skin which in its general characters imitates very closely the colouring observed in Addison's disease. In the present instance, indeed, the resemblance was so striking that, on a superficial examination, the idea of Addison's disease at once occurred to the mind. Joined to the colouring of the skin, in this case, is to be added the circumstance which generally gives significance to cases of questionable diagnosis in the disease just named—the presence, namely, of protracted anaemia, without any of the usual explanations of that condition being presented by the patient.

Of course the occurrence of dark skin in other members of the patient's family at once threw doubt upon the diagnosis, and the doubt was confirmed by the absence of certain peculiarities in the distribution of the colour which are present in Addison's disease. Similarly, the symptoms, whilst coinciding with those of Addison's disease so far as the general evidence of anemia went, were yet wanting in those special developments related particularly to the circulating and digestive apparatus, which impart so decided a character to the history of true

Addison's disease.

C. F., aged 38. The whole of the body and limbs presents a remarkable tint of a rather dusky copper-brown. The colour is perfectly uniform in all parts, excepting on the soles of the feet, where it is nearly, if not quite, absent. The bronzing is wery deep over the entire trunk, before and behind. It is also very usep over the entire trans, centor and cental. It is also where it is svery dusky. The foreign and the kneeds where it is svery dusky. The foreign and the kneeds to deeply coloured; the rest of the extremities more lightly. But the forehead and face, though presenting the characteristic tinge, are the palest parts, with the exception of the palms; the face has rather an ansemic character. The inpipes and their areolæ are of a deep brown, but, with this exception, the parts of the body which usually exhibit a deep colour in parts of the body which usually exhibit a deep colour in Addison's disease—the armpits, groins, and scrotum—are not, with the partial exception of the latter, more deeply tinged than the neighbouring skim. Moreover, the eyeballs, in place of being clear and pearly, have a curious smoky colour, somewhat internised with yellow; the lips and the glaus penis are very smoky; the microus membrane of the lips, checks, gunas, hard and soft platte are simply amemic,

quite without any streak or stain. The patient's hair is everywhere jet-black; his eyes deep-brown. He asserted that his skin had always been dark, but that it had become materially darker since his illness began, the change become materially durker such as timess began, the change being progressive. The accuracy of this statement is fully established by my friend Dr. Buck, who had watched the patient for the last three years. A change in the opposite direction took place in a marked degree in his face whilst in the Hospital. There appears no doubt that a dark skin is hereditary in some members of the patient's family on his father's side. His father had black hair and a dark skin; a brother and sister of his father had also black hair, but a fair skin. He remembers that one of his brothers had black hair and a dark skin; and all of his sisters, seven in number, had black hair. He can say nothing further, as he has been away from his family for a long time. Out of seven of his children, five have black hair, and one a dark skin in addition. He knows that his family have lived in the neighbourhood of Pershore, in Worcestershire, for the two generations preceding remore, in worcescenary, for the two generations preceding his own, and that they have been healthy. His illness began seven years ago, with a sudden attack of griddiness and sickness whilst he was working in the fields in the summer-time, probably a mild sunstroke. He lay in bed two days, but from that time he dates gradually increasing debility. Each spring he has been laid by with an attack of weakness of increasing duration and severity, and on each occasion he has less perfectly duration and severity, and on each occasion in his less perfectly recovered. During the past three years he has greatly failed in capacity for work, and during the past year has been almost incapacitated—indeed, the chief question which Dr. Buck had to decide was whether he should be permanently removed to the workhouse. But with these symptoms he has suffered little or not at all from faintness; his breath, though rather short if he exerted himself specially, has never troubled him much, and though he vomited his food during a fortnight in an attack which he suffered last year, yet he has been almost free from this symptom. His appetite has been variable, He has never passed worms. During frequently voracious. the whole period of his residence in the Hospital he has been entirely free from any important symptom; his appetite has cuttery tree from any important symptom; his appetite has been good; he has always been about, and fairly active. For the rest, he is fairly nourished, presents no disease in any organ, his urine is free from albumen and from sugar, he has been quite free from odema.

Case 2.—A. C., aged 46; formerly in the army, now a flax dresser; of questionably temperate habits. Had a sore on his dresser; of questionably temperates nature. The second management of the artificial second management of the management of the management of the management of the management part, decided duliness of the right side of the chest (incomplete beneath the clavicle, where there is a faint respiratory murmur), from the clavicle to the lower edge of

____ the fifth rib, and from the right edge of the sternum (but not to entire retains the state of the steerman (with two the other. No bruit is anothin, nother in the tuner nor over the heart, but a double sound is distinct in the former situation, precisely like that belonging to the heart. He was knocked down by a cab three years ago, and brought into the Hospital, and my colleague, Mr. Baker, who was at the state of once recognised by the man, has an indistinct recollection of suspecting the existence of blood in the anterior mediastinua. The patient's symptoms are disguised by those occasioned by his very dusty occupation, but the chief complaints date only from the beginning of the past winter, though he refers to his

accident as the prime cause of his ailment. The most remarkable part of his case is the establishment of a most extensive system of venous anastomosis over the entire front of the thorax and abdomen, by which the circulation through the superior vena cava is in great part, perhaps wholly, transferred to the femoral and iliac veins, and through them to the inferior yena cava-The upper parts are entirely free from ordema, and have been so throughout his illness; his face is bloated, red, and full, especially about the cheek-bones; it varies, however, remarkably in this particular almost from minute to minute; at the least excitement, or as soon as he begins to talk, the vessels fill, and the eyes become watery and red, and the lips somewhat livid. The two superficial epigastric veins, enormously dilated, run up the abdomen, forming a closely set series of broad S-like convolutions as far as the ensiform cartilage, where, after forming apparently a considerable reservoir, they disappear, pre-sumably to unite with the internal mammary veins. Each superficial circumflex ilii vein, also greatly enlarged, can be traced running in one continuous trunk, to disappear at the apex of the axillary cavity. The entire front of the chest is occupied by a complete network of distended cutaneous veins, ramifying in all directions, and among them, on the right side, is one large trunk, which runs, apparently independent of its neighbours, directly to the external jugular, into which it appears to open. Both external jugulars are distended, and the anterior jugulars are greatly developed. The cutaneous veins of both upper extremities are much distended, and both internal saphena veins of the thigh are also very full. The course of the blood through the dilated veins of the thorax and abdomen was clearly ascertained to pass from above down-

During the last month the patient has become subject to aroxysms of violent larvngeal dyspnosa; it was the occurrence of one of these attacks in the out-patient room, threatening suffocation, which occasioned his admission into the Hospital.

Repeated examination by the laryngoscope failed in detecting any permanent abnormal condition of the larynx besides congestion of the cpiplottis; the movements of both vocal cords in respiration and vocalisation were perfect. Finally, both pupils are much contracted, the right one being somewhat the larger of the two; no amount of blindfolding succeeds in

producing any dilatation. The pulse in each wrist is alike.

During the last week of his remaining in the Hospital, the patient had some attacks of epistaxis. His urine is free from albumen.

Note.—I wish to supply a careless omission in a case of "epileptic" loss of vision, reported at page 449. I omitted to point to temporary paralysis of the internal rectus as indicating the quarter in which the blindness originated—viz., defect in the muscular apparatus.

GLYCERINE AS A VEHICLE FOR CHLOROFORM.-Dr. GINCERINE AS A VEHICLE FOR UTLOOPING.—DI-Murtock, of Cold Spring, New York, atmosply recommends tration of chloroform. Most other formulae are of difficult preparation, and contain too little chloroform. By allittle care in rubbing it up, one part of chloroform by utlike can be dis-solved in three of pure glycerine. It is best first to take two parts of glycerine only, and the chloroform very slowly, and rub up carefully. Put this into a bottle, and let it stand for twenty-four hours, by which time a little of the chloroform will have become deposited. This is to be separated and rubbed up with the remaining part of glycerine, and mixed with the rest. No further separation will take place, and aix cunces of glycerine, with two of chloroform, will furnish seven fluid ounces of solution, each drachm of which contains about seventeen minims of chloroform. It may be taken either as it is, or after water has been added.—Boston Journal. March 30.

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Medical Times and Gazette.

SATURDAY, MAY 20, 1871.

"VELUTI IN SPECULO."-DR. MAZZONI'S VISIT TO LONDON.

Whoever amongst the London fraternity of Physic wishes

"Some Power the gift would gie us, To see ourselves as others see us,"

may easily be gratified if he will take up the account which Dr. C. Mazzoni has given of his visit to the Loudon Hospitals in the summer of 1868.(a) Dr. Mazzoni's chief object was to gather information respecting those capital operations which, he says, "have aroused the wonder of all Practitioners," and especially ovariotomy, and we must confess that his book gives us, in small compass, newer and fuller information respecting the minutise of this last operation than is to be met with in any work or journal published in this country. But before beginning his account of operations and similar material facts. Dr. Mazzoni devotes a few pages to the moral condition of the Medical Profession in England, and these are so singularly flattering to us, that we conceive them penned not only under the influence of the friendly seutiments which a courteously received foreigner would feel and express towards ourselves, but under the scarcely disguised conviction that a very different and worse state of things prevails at his own homejust as the description which Tacitus gives of the virtues of the Germans, or Voltaire of the Ingenu, are supposed to be backhanded blows at the vices of Rome and Paris.

One of the first things, Dr. Mazzoni tells us, which strongly arrested his attention was the kind of relation (not only rare, but unique, he calls it) which exists between the Physician and the patient. The mode in which Dr. Mazzoni describes this phenomenon is so remarkable that we will give the passage with little abridgement :-

Here, he says, Physician and patient seem impressed with a generous rivalry in working for the patient's recovery: the one displays a zeal that may be called heroic, and exhausts all the powers of his mind in contriving means for the cure, the other submits himself with blind confidence to the prescriptions and commands of the Physician. The blind confidence of the patient stirs up, so to say, all the energies of the Physician, who feels that the former has thrown himself entirely into his hands, and given him, as it were, power of life and death. It would be very difficult to say whether the desire of the Doctor to cure the sick, or of the sick man to be

⁽a) "Una Visita agli Ospedali di Londra, nell'estate del 1868." Pel Dott. C. Mazzoni. Estratto dai "Giornale Archivio di Medicina, Chirurgia, ed Igiene." Roma. 1869.

oured, is the greater. Hence arises such an accord and unity of sentiment between the two, that you may often hear the patient urging on the Doctor to leave no experiment untried; especially since, says our author, to the Englishman work is life, and idleness misery. No Englishman will resign himself to an invalid life without inevitable necessity.

Another grand character, says Dr. Mazzoni, of English patients, is their constant fidelity to the same Physician or Surgeon. Old patients reappear constantly, bringing back prescriptions dated years ago. They don't look to success or want of it; they know the Physician does his best, and if he fails -'tis his misfortune, not his fault. The English well know that nature is stronger than art, and they never commit the enormous injustice of blaming the Practitioner when he has failed in the unequal combat. To the virtues of trust and constancy, English patients also superadd those of gratitude and generosity. How different amongst ourselves at home! sighs Dr. Mazzoni. How our patients humiliate as by their want of confidence and of constancy! How they blame us as the cause of illness and of death! And, alas! how often are their false and unjust accusations inspired by the unworthy Practitioner who is called in after us!

English Practitioners, continues Dr. Mazzoni, unite the happy characteristics of veneration for the traditional doctrines of their art, and of perfect freedom in the trial of every new and promising practice; and he deduces justly the success of the English school in ovariotomy from the persistence with which they have followed out Hunter's doctrine of "union by the first intention," without which the triumphs of that operation could hardly have existed. He naturally calls attention to the fact that this "union by the first intention" was the method of early Italian Surgery. Not less happy, he goes on to say, are English Practitioners in the disposal of their time. With his countrymen, he complains, the Physician is expected to be at the beek and call of the patient on the most trifling cases all day long-he cannot consecrate any fixed hours to society, to his family, or to literature; whilst in England the fixed customary hours for consultation at home, for the Hospital visit, and then for patients at their homes afford space for every purpose. And well, he says, do the English Practitioners spend their time; they have no insular prejudices, but search out whatever is valuable in all other countries under the sun. Spencer Wells, Holmes, Brodhurst, and Couper are distinguished for their acquaintance with Italian literature, and Dr. Mazzoni records with pleasure how Holmes reduced a dislocation after the manner of Professor Fabbri, of Bologna, how Brodhurst imitates Palasciano. and how Lawson cured aneurisms by digital compression, after the manner of Vanzetti. The London Hospitals come in for a full share of praise, and especially for the order and hygiene which reign therein; for the moderate size of the wards and good space for the beds; for their cleanliness, and the surprising absence of smells-no odds-and-ends of medicine or scrups of poultices are to be seen lying about the wards and passages. On the topic of Hospital hygiene Dr. Mazzoni evidently speaks with great authority, and it was he who brought the subject of death after operations before the International Medical Congress at Paris in 1867. The English Hospital Medical staffs, he continues, are distinguished for the delicacy with which, in consultation, they oppose, if need be, the opinions of a colleague, and the self-abnegation with which they will renounce any opinion, however cherished, when it is shown to be untenable. At their consultations all personal considerations vanish; the good of the patient is the sole aim. and no one considers it beneath him to do any act, however humble, that shall conduce to the patient's benefit. Sir W. Fergusson may be seen holding the staff for Henry Smith-" Non destò quindi alcuna maraviglia il vedere un giorno il celebratissimo Fergusson sostenere lo sciringone al giovane Smith, mentre operava un fanciullo di eistotomia." Not that this harmony in the least tends to monotony; on the contrary, each Surgeon is free to use his own method, and you may see in one day at one Hospital the same operation done by two Surgeons in different manners. Every man, whilst maintaining his own opinions within legitimate bounds, pays due respect to those of his colleagues. In this happy town, no base passions of envy or joalousy refuse to a colleague the homage due to his merits. Consultations are inspired solely by consideration of the patient's benefit, and never by the design of favouring one Practitioner or snubbing another. And, Dr. Mazzoni goes on to say, with some bitterness, London is not a place where a man is taken up merely because he is a foreigner, and out of a paltry desire to insult and humiliate native Practitioners.

We can assure Dr. Mazzoni that although, perhaps, a more intimate acquaintance with us might have enabled him to detect some few flaws in our Professional merale, inseparable from human frailty and active competition, yet that we desire to express the gratification which we all feel at the eloquent expression of his admiration for the gentlemanly and honourable manner ("la mauiera decorosa e leale") in which the London Physicians and Surgeons practise their art.

We have lingered long on Dr. Mazzoni's account of our merale, and must compress into few words our remarks on the really valuable accounts which he gives of Surgical operations. As might be expected, he devotes most space to ovariotomy, which he witnessed in the practice of Mr. Spencer Wells, of whom he says-" Uomodi circa 50 anni, lo trovai facile e cordiale; parls Is lingua nostra come un' italiano." This, which forms an excellent treatise on ovariotomy, occupies the greater part of the book, and is followed by succinct accounts of gastrotomy for fibrous tumours of the womb, and incision of the cervix uteri for dysmenorrhoa; next of lithotrity, of which he says-"Nei grandi Ospedali io la vidi praticare pressochè da tutti i chirurghi primari, fra I quali vi noterò il Fergusson, l'Erichsen, il Paget, lo Smith, l'Holmes," etc.; then resection of bones and joints-a practice which he describes as of English originand, lastly, the practice at the Moorfields Ophthalmic Hospital, and the cliniques of Dixon, Bowman, Critchett, Couper, and Lawson. Then follows an attempt to explain the English Medical institutions, but as these are simply unintelligible and inexplicable, we need not wonder if this is the least trustworthy part of the book. The writer more than once affirms that, in his enthusiastic praise of our institutions, he does not wish to blame, by contrast, those of his own country, but only to exhibit a good example for imitation. We may with humility say that it would be good for us were we always to realise the flattering picture which he has drawn of us.

THE SANITARY COMMISSION ON MEDICAL OFFICERS OF PUBLIC HEALTH.

In the new volume of the Report of the Sanitary Commission, which has just appeared, is a memorandum upon this subject, which we hasten to notice. The Commission has come unanimously to the conclusion that every question affecting public health should be brought into relation with one central office, presided over by a minister, and that every Health Officer should thus stand, directly or indirectly, in official relation to him. Further, they consider that every person ought henceforward to be entitled to such reasonable public protection in respect of his health as he is in respect of his liberty and his property, and this everywhere and at all times. They lay down three principles of sanitary administration. The first is, that no member of the community shall, wilfully or for profit, damage another man's supply of the three absolute essentials of lifefood, water, and air; and, therefore, that it is the duty of the State to secure, as far as possible, that these essentials shall be supplied in sufficient quantity and the greatest attainable purity, in all circumstances in which these objects cannot be attained by individual care and resources. The second is universality, through constant supervision by Health Officers in every part of the country. The third is efficiency in the agents, who must be well instructed and capable. The fourth is economy. Constant and universal supervision of the essentials of public health by competent persons, economically conducted, being the true object to be aimed at in sanitary legislation, the memorandum proceeds to consider:—

1st. The supervision required. This must be statistical in respect of births, deaths, marriages, diseases and the census, for which registrars already exist, except in the instance of sickness. For legal supervision there must be in every district an authorised legal adviser or clerk conversant with publichealth law and public-health literature. Further, there must be engineering supervision. Sanitary engineering is, as they observe, one of the youngest branches of applied science, and, therefore, it is not to be wondered at that experts in it have been few. Its practice is also unsatisfactory, as shown by the fact that the very rules of water-supply, the construction of sewers and drains, disposal of sewage, etc., are still subjects of constant dispute. It is for the interest of ratepayers that there should be systematic and ready means of obtaining the most skilled supervision and arbitration on all large plans and works. So, too, there are required specially trained persons to advise and arbitrate upon chemical and Medico-legal questions not strictly pertaining either to the province of the engineer or the Medical man. Lastly, there must be Medical supervision. For this public health officers are and will be required, whose duty will be-firstly, the treatment of disease among the sick poor; and secondly, the disposal of questions relative to the prevention of disease and of injury to the health of the population. As the basis of a staff of public health officers the Commission look favourably upon the existing Poor-law Medical Officers. By laying health duties upon them, the three conditions of universality, efficiency, and economy will, in the opinion of the Commission, be met.

2ndly. The qualifications of the sanitary agents to be employed, Under this head, the Commission consider first the duties of local Medical officers of public health. Their scheme may be thus summarised. The curative duties of such an officer would remain much as at present; he would be required to fill up and transmit to the central office returns of sickness upon a form to be supplied, and upon another form returns of the general sanitary condition of his district, with observations as to special local causes of ill-health. If competent and willing, he might also undertake water analysis and meteorological observations. The Commission would guarantee his independence by making him irremovable by the local authorities; neither would they hinder him from undertaking in addition the duties of inspector of nuisances, inspector of workshops or factories, registrar, coroner, etc. In making this suggestion of utilising the existent staff of Poor-law Medical Officers, they would not be understood as withholding local authorities from employing, at a higher salary, Practitioners of higher qualifications or attainments. They next consider the subject of central inspectors of public health. They think that for this purpose the numbers of the present inspectors in the several central offices would, with few additions. meet the exigencies of the case. These are the twelve inspectors under the Poor-law Board, the seven Physicians employed under the Medical Officer of the Privy Council, the six lunacy inspectors, the thirty-three inspectors and sub-inspectors under the Factory Act, and the engineers under the Local Government Acts. They are of opinion that the district inspector, though he cannot be thoroughly versed in all the subjects which will come under his supervision, may be sufficiently master of most of them to know when the machinery under observation is working properly, and to decide when it may be necessary or expedient to call in a special expert. They very properly observe that, under the present system, by virtue

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of which the officers of the several central boards work independently, there is a great waste of power; and if all these officers were united under one chief, and setting harmoniously is members of one staff, they could theroughly superinteed the whole sanitary arrangements of the country and the 40% Medical officers who, under the scheme, would be entrusted with local health functions.

3rdly. How complete sanitary organisation may be best obtained. They believe there should be (1) a Minister of Health; (2) six permanent departments under that Minister, for (a) law of local government, (b) engineering, (c) registration and statistics, (d) relief of the poor, (e) Medical care of public health and poor, (f) legislation bearing on the Profession of Medicine; (3) a body of inspectors attached to the Health Office-viz., (s) general inspectors attached to and generally residing in the registration divisions, poor-law districts, or (as they will be also) public health areas, (b) special inspectors, legal, engineering, scientific, and Medical, (e) special experts, advising professionally for special fees, (d) local clerks, surveyors, public health Medical officers, etc. They regard this arrangement as simple, since no existing office need be destroyed, and some will be amplified; and also as advantageous, since it will be efficient, complete, and economical. Neither money nor skill will be wasted. All reports bearing upon public health will be connected one with the other, and mutually illustrating each other. The connection of the Minister of Health with the Medical Profession would be beneficial to the whole country, would tend to disseminate uniformly scientific knowledge, and do away with crude theories and impracticable plans bearing upon the physical condition of the

Such, in brief, are the views of the Sanitary Commission. They are no doubt open to much criticism, and such criticism will be freely made. One difficulty they themselves suggest, and we think it is no mean one—namely, whether highlyclusted youths will take the posts, at present ill-paid, what the public may offer to them; and whether the rural districts, when the younger and more highly trained classes of mea have occupied the field of practice, will be supplied at all at the present rate of remuneration.

THE SMALL-POX EPIDEMIC.

THE sudden fall of deaths in London from small-pox which occurred last week-namely, from 288 to 232-occurring about three weeks after the mean temperature of 50° was reached, appears to be confirmatory of the favourable hopes we expressed last week, that the epidemic had, for this season, arrived at its climax. That it should decline, however, steadily and without fluctuation, is scarcely to be looked for. The comparatively cold weather of the last fortnight scarcely permits of such an anticipation. All the districts in London participated in the decline, notably those where the disease has been recently most prevalent. In the North the deaths fell from 81 to 64; in the South, from 108 to 84; in the West, from 30 to 23; in the East, from 51 to 46; and in the Central districts, from 18 to 15. The Registrar-General says, "Greater energy appears to have been shown in securing the more general adoption of the protective influence of vaccination," and he would lead us to infer that the decline of the disease is due to this cause. We scarcely think any such inference ought to be drawn, inasmuch as there is no evidence whatever that vaccinstion has been more generally sought within the last few weeks; but perhaps the Registrar-General has some information on this subject not possessed by other people. Our own belief is, that the decline is altogether independent of anything of the sort. In Southampton there has been a decline both in the deaths and in the number of new cases of smallpox. Brussels and Berlin are still suffering greatly. In Brussels, out of 159 deaths in the week ending May 6, 35 were from small-pox; and in Berlin, in the week ending May 11, out of 585 deaths, 110 were from small-pox.

YELLOW FEVER AT BUENOS AYRES.

THE last news from Buenos Ayres, in respect to yellow fever, has been of so serious a character as to divert our attention back to earlier data. There has been of late an epidemie in Paraguay, and also, for some few years past, in Brazil; but the superior attention which has been paid at Rio Janeiro to its port-the most objectionable, till of late, in many points of hygiene, as well as the most beautiful - has reduced yellow fever there to a few sporadic cases. The quarantine which exists between Buenos Ayres and Paraguay is, at the present time, so little effectual, that one-half of the passengers are said to escape from it by landing at some other point. Buenos Ayres, situated on a vast river, has, properly speaking, no port other than a rivnlet (the Riachuelo), a sort of Fleet, serving largely for sewer purposes. The present relation of these countries to yellow fever, which has long been no stranger among them, is now pretty fairly such that with every hot summer its appearance may be calculated on, while with the cold of winter it subsides. This is very well seen in Brazil, Its moist and humid climate seems precisely framed to acquire and also to retain the incalculable privilege of this vellow pest. The circumstance that palndal fevers, with gastric, biliary, and intestinal disturbance, are native to the country-fevers which, in their highest phase, bear a close resemblance to yellow fever -offers to the endemicity of the latter, in fact, the most favourable of opportunities for its fixation whenever it may appear upon the stage.

In Buenos Ayres, just before the epidemie, this very class of cases prevailed (of no very fatal character indeed), leading, as is wont to be the case, to a denial, on the part of some, of the identity of the yellow fever. It is fair to state that in the reports of January such cases as these were prominent above all others, exception being made for typhoid and also biliary fevers. The days at that time were very hot, and the nights were fresh and cold. This state of Medical constitution continued till the end of February, towards the end of which month and the beginning of the next it was relieved by rains and by fresh winds from the north-west, which gave rise among the population to frequent acute disorders, especially of the respiratory apparatus, the same class of affections continuing still in the gastro-intestinal apparatus and organs subsidiary to it. It was in the last week of the month of January that cases of yellow fever were signalised by Dr. Larrosa in the Calle Bolivar, attributable by him to the defective hygiene of the close habitations there, to the reigning Medical constitution, and to the elevated temperature of the middle of the month, especially towards the latter end, when the heat continued far into the hours of the night. The " Commission of Municipal Hygiene" caused the house to be cleared, had some of the furniture burnt, and the rest disinfected. The Commission of the Parish also appointed Dr. Wilde for the service ad hoc of the district. The fever is stated at this time to have made but little ground, being confined to San Telmo, the quarter in which it arose, of whose bad hygienic conditions and exceptional character we shall have more to say anon; but before February 8 some cases had occurred in the north of the city. In the Medical journal the Independencia Medica there had already appeared a rationale of the clinical treatment and prophylaxis of yellow fever, which, being copied into other journals, showed a very general anticipation of increase in the disease. On February 9 there occurred the death from yellow fever of Dr. D. B. Ventura Bosch, one of the celebrities of Buenos Ayres, founder of the Hospital de Dementes and Hospicio de Mujeres, philanthropist and Physician, who was venerated and esteemed by all his fellow-townsmen. Subsequently, as the month went on, affections of the gastro-

intestinal tube began to divide attention with the incessantly predominating small-pox, passing as they did into yellow fever, if we may use an expression, current at that time among the people, which is not scientifically correct. The yellow fever had now gained its footing as a minor epidemic at San Telmo, the ward where it had commenced, but with promise of speedy extinction, as it was affirmed to be on the decline. Some few cares had occurred, it is true, in the north and west of the city, the affiliation of which to the infected quarter was perfectly ascertainable. Some other cases-as in the Calle Bergamo, for example-could not be so explained, and it was precisely these cases that gave best cause for alarm as to the future. At this time, and as if in the usual course, several persons made themselves conspicuous in denying the existence in the city of yellow fever; among the rest an English senor, whose want of sincerity was commented upon in some of the public prints. At this time, variola, which counts for a fifth of the ordinary mortality, was still absorbing the largest share of interest. For two years previous an epidemie of small-pox had reigned in Buenos Ayres. There were present, also, pneumonia of severe type, acute and rapid phthisis in adults; in children, head, chest, and throat affections. The general apprehension of yellow fever was further lessened by a reprint in the leading Medical journal of historical and therapeutical articles (from the Siglo Medico of Madrid) upon that dreadful pestilence. On March 4 there appeared an article in the public print the Nacion, on "Mortality and its Causes," stigmatising the Riachuelo as a common and ever-present enemy, as a very immediate source of peril, thus giving a further proof of the general apprehension as to the future of the disorder; indeed, on March 8, the Revista Medico-Quirurgica of the Medical Association of Buenos Ayres had to announce so many as 800 deaths during the previous fortnight from yellow fever. Meanwhile, the same Medical constitution was maintained as regards chest affections and small-pox, and with them some typhoid fever and cholera cases. There were noticed generally in the city saburral, gastric, intestinal, and hepatic complications, and, as highest expression of these and of the Medical constitution, the yellow fever epidemic at this time so thoroughly developed as to characterise, if not to constitute, a real and potent epidemic. Its growth and diffusion continued, for the most part, in the ward where it first appeared-namely, in the parish of San Telmo-infecting the open spaces surrounded by streets both narrow and moist which are found in this quarter. The deficiency of pavement in these streets, called terceros, with numerous crevices and faults and holes, and much stagnant water, exhaling all manner of abominations, renders the place a public nuisance; it is the resort of the idlest and lowest class, who here abound and take their pleasure. No good will here be effected, perhaps, but by personal responsibility thrown on the individual, both as to himself and also to the property he owns. This is the regular haunt of the over-stimulated emigration. It is observable that, as yet, among the deaths from yellow fever, the Italians count for seventy in 100. Recruited chiefly from the Neapolitan States, these emigrants bring with them an incuria, an idleness and neglect of hygiene which is almost beyond conception. There is no home to receive them on arrival, and the Lazaret (La Ensanada) is not worthy of the name. A doubtful good at the best, they are a constant peril to the community. This and the Rinchuelo are the two great standing abountations. The genius of the stream is stigmatised by the public press as battening on human victims, and as worshipped and guarded with religious awe by certain thriving classes in the town, and quite safe while protected by their hands from any innovation; meanwhile it counts its hecatombs, it is compared to the godders Febris of the Romans, to the Ola-Bibi of the Ganges. The Riachuelo serves as a common sewer, and also as issue for the salting-places, where there is a constant outpour and overflow of organie refuse and filth. In other respects the municipality

has not been inert, and some murmuring has been produced by one of its acts as of very equivocal berefit; this directed that "every person, without exception, proceeding from the infected points (parish of San Telmo), if any way infected with the yellow fever, should transport thenselves or be transported to the municipal Lazaret with no reserve whatever as to sex or position." To this ordinance the Faculty are generally opposed, as prejudicial, futile in operation, and contrary to instinct and experience, as well as to the more wholesome and ordinary rules of modern hygiene. Dispersion, they say, has ever proved the only effectual means, or at least the best ultimate resource in contending with a virulent contagion. In 1849 and 1854 in Paris this was proved as to cholera, especially in the Salpétrière where an agglomeration in cholera wards had intensified the epidemic. This question, it must be confessed, touches us in London nearly in respect of small-pox, though the circumstances are not quite identical.

THE WEEK.

TOPICS OF THE DAY.

The General Medical Council is summoned to meet on Tuceday, July 4. Dr. Sharpey, whose term of Membership had expired, has been reappointed a Member by the Privy Council.

A new scheme for the formation of a Conjoint Examining Board for England has emanated from the Royal College of Physicians, and is now under the consideration of the Council of the Royal College of Surgeons and of the governing body of the Apothecaries' Society. It would be premature to discuss at length the propositions offered by the College of Physicians for the acceptance of the other Corporations. In its general tenour the scheme seems to be a fair one, although there are not wanting points in it on which exception may reasonably be taken. In considering it, the first question will be whether the mode of appointment of examiners or assessors proposed by the College of Physicians be practicable under the legal instruments which empower other of the bodies to examine and grant licences. This question being settled in the affirmative, as we have said, the scheme prescuts such a general appearance of fairness that we do not think it should be rejected without full discussion. The first resolution arrived at by the College of Physicians is that a Board of Examiners shall be appointed in England by the co-operation of the Universities and other Licensing Bodies mentioned in schedule A to the Medical Act, "it being understood that, liberty being left to the Universities and other Licensing Bodies to confer, as they may think proper, their honorary distinctions and degrees, each co-operating body will abstain from the exercise of its previous independent privilege of giving admission to the Medical Register." With the general principle of this resolution, which is intended to secure the co-operation of the Universities on the understanding that all Medical students graduating shall pass the Conjoint Board, we heartily accord. But it seems to us that the term "honorary distinctions and degrees "leaves open a very wide door. If an English University should grant to a British subject a degree, honorary or otherwise, of Doctor of Medicine, could the Registrar of the General Medical Council, acting under the 15th clause of the Medical Act of 1858, refuse to register him? We very much doubt it.

The next resolution is to the effect that a committee, to be call d'the Committee of Examinations," shall be appointed by the Universities and Liceusing Bodies, and that this Committee shall consist of one representative of each of the En dish Universities, two or presentatives of the Royal College of Physicians, two of the Royal College of Surgeons, and two of the Apothecanies Society. Here objection, we think, may fairly be taken to the disproportionate amount of power this resultion would vest in the hands of the University of Durham, an institution which has but little claim at present to be considered in any practical sense a Medical examining

body. It might also be urged that the element of pure Physic would predominate too greatly in the Committee, as the representatives of the Universities would rarely, if ever be Surgeons or General Practitioners. These are reasons for diminishing the number of University representatives, but, of course, they do not affect the principle of the scheme. The duties of the Committee of Examinations are to be-"To determine the number of examiners to be assigned to each subject of examination, and to nominate such examiners for appointment by the several Universities and Licensing Bodies; to regulate and superintend all other matters relating to the examinations, and to transact such business as may be referred to them by the Universities and Licensing Bodies, and to report periodically their proceedings." It is, however, easy to foresee that the powers of this Committee of Examinations must be more carefully defined and limited, or the scheme cannot be expected to work satisfactorily. It is true that the appointment of examiners would still be vested in the present Examining Bodies, nomination only being the function of "the Committee of Examinations." The legal rights of the present Examining Bodies would thus nominally be preserved. But it is clear that the power of the Committee of Examinations could never be stretched to over-ride the legal powers of the Examining Bodies without danger of the disruption of the alliauce. The next resolution provides that each candidate is to be required to pass two or more Professional examinations. The rest of the scheme deals with finance. The caudidate is to pay £15 15s. to the Committee of Examinations, to defray the expenses of the examination, but will have to pay an additional fee for his diploma to the College of Surgeons and either of the Medical Corporations which he may select. University graduates in Medicine will only be required to pass the final Professional Examination, and to pay a fee of £5 5s. This, however, would not entitle the graduate to the diploma of either Corporation without an additional fee. Such are the main features of the scheme elaborated by the Royal College of Physicians. We shall be very glad if it prove the platform whence an easy ascent may be made to the settlement of this vexed question; and we can only express again our hope that a mutual understanding may be arrived at by the contracting parties before the meeting of the General Medical Council on July 4.

For the office of Obstetric Physician and Lecturer on Midwifery at St. Mary's Hospital, vacant by the retirement of Dr. Tyler Smith, we hear there are three caudidates in the field—Dr. Meadows, Dr. Edis, and Dr. Heywood Smith.

The Anatomy Act (1832) Amendment Bill, which is now before Parliament, is simply intended to lengthen indefinitely the time during which a body may be kept for dissection. The following is the important clause in the Bill:—

"It shall be lawful for one of Her Majesty's Principal Secretaries of State in that part of the United Kingdom called Great Britain, and for the Chief Secretary for Ireland in that part of the United Kingdom called Ireland, from time to time, by order, to vary the period limited by section 13 of the recited Act (the Act of 1832) as to the time within which extificates of interment are to be transmitted to the inspectors of districts."

CHOLERA IN RUSSIA.

We have received some important statistics relative to the outbreak of cholera in Russia, which, it seems, is more sever than we had conceived. The following tables show the number of cases and deaths up to May 1, and from the last to the 9th of the present mouth thirty new cases had occurred, with eleven deaths. The epidemic is officially notified as prevailing in the governments of St. Petersburg and Moscow, and in the neighbourhood of Wilms. Probably it prevails over a wide area in North-Westeru and Central Russia. Even before March 20, when the statistics began, about sixty cases were New cases

Deaths

occurring daily. During April the weather is stated to have been hot and sultry, and the air stagmant. There was a remarkably early and rapid break-up of the winter, with fooding of the lower portions of St. Petersburg, which intensified the naturally unhealthy condition of the city. The sanitation is bad.

St. Petersburg Cholera Bulletin ("Spring" Outbreak), from "Gazette de Police."—First Daily Bulletin, March 20, 1871.— (English time.)

			r	Firs	t Da	Hy L	ulleta	n, March	20, 18/1
(English	time.)				Male		Females.	Total.
Cases to M	arch	20				135		96	231
Now cases						60		38	98
Cured.						1		3	4
Died .						19		23	42
Remaining		ler	treat	mer	t on				
March 2	l					175	i	108	283
	To	tal	from	Ma	rch S	0 to	May	1, 1871.	
-					Malca			nales.	Total.
Cases					1522		9	013	2435
Cured					978		2	595	1573
Death	R.				601		:	318	919

FROM ABROAD,--PROFESSOE BILLBOTH'S LETTERS FROM THE SEAT

Remaining under treatment

Moscow Bulletin, May 9, 1871.

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In concluding (see Medical Times and Gazette, p. 458) his observations on the arrest of hæmorrhage in wounded arteries, Professor Billroth observes that, for the determination of the agency of the thrombus, those cases are of very great importance in which the individuals have died before the ligature has come away. He refers to such a case which came under his own care at Zurich (Arch, für Klin, Chir., B. ix., p. 304), the subject of which died fourteen days after a double ligature of the carotid on the right side. The ligature came away without bleeding, on the very day of his death, and the artery was found closed by a firm thrombus of two inches firmly adhering to the walls of the vessel, extending downwards to the arteria innominata, and upwards to the internal and external carotid. On the left side, on which the common carotid had also been tied forty-eight hours prior to death, the artery exhibited no thrombus whatever, nor was its inner coat torn through. although the walls of the vessel were so completely plaited together as to become impermeable. In the museum at Zurich there is also a carotid after ligature, in which the whole thrombus is scarcely three lines in length. In the three cases of ligature of the external iliac related in the present letters, there was either no thrombus at all or only a very small one; while, in the statistics of ligature which have been published, the absence of thrombus has been frequently recorded. The cause of this irregularity in the formation of thrombus is very difficult to determine, and, indeed, cannot be determined until we are better acquainted with the laws of the congulation of the blood. After noticing some of the circumstances influencing this, and the contradictory character of some of the conclusions, Billroth observes that it is only too obvious how little is clearly made out. One practical, although a negative result is, that neither by the choice of the point of application of the ligature nor by any other circumstance do we find ourselves able, in any operation we undertake, to exert any certain influence on the formation of a thrombus, and still less upon its extent; for, on critical examination, all the points which have been supposed to be essential turn out to be of more contributory influence. The practical importance of the rupture of the internal coat of the artery after ligature in relation to the formation of thrombus, first so accurately set forth by Jones, has been again brought into prominence by Kocher, in his able work on acupressure. Yet the small size of the thrombus, and its occasional absence after ligature and acupressure, show

that even this circumstance exerts sometimes but a slight influence; for it a evident that a thrombus which can only be detected by a magnifying glass cannot furnish any security against hemorrhage ther a too early separation of the ligature.

With respect to the closure of the arterial wound without the agency of thrombus, Billroth is of opinion that formerly he. like most others, too much overlooked its possibility. Recent experience, however, and the attentive study of the writings of Koeher and Roser upon the subject, have much modified his former views. Although he has much employed acupressure, he seldom examined the vessels after teath following amputation, assuming that a thrombus, as is usually the case after ligature, was present. As this, however, is not always the case, and yet hemorrhage does not occur, this can only happen from the contorted end of the vessel remaining in the same position after the withdrawal of the needle as it had been placed in by it. Kocher has shown that this "fixation" is not brought about by the firm adhesion of the inner coat over so limited a space; while that the mere trace of a coagulum, which is all that is often present, is not able to arrest the stream of blood from a femoral artery two days after it has been wounded, need hardly be stated. Neither does acupressure or acutorsion induce the entanglement and crushing of the arterial tissues which result from écrasement. Small arteries may easily become closed by muscular contraction, and so remain until other means aid in rendering their closure definitive; but large arteries, being almost devoid of muscular tissue, are not enabled by contraction to close their bore. There remains but one other mode. The mouth of the artery closed by means of the pressure of the needle, or by torsion, becomes fixed while in such condition by the fibrinous exudation which is secreted or deposited amidst the tissues of the wounded surface. This extremely dense, cohesive, contractile substance, which gives rise to granulating and cicatricial tissue, retains the ends of the arteries in situ, first adhering to and then intimately uniting with them, so as to permanently close their orifices. Whoever has had to separate the flaps two or three days after an amputation is well aware how firm this adhesive substance may become within that time, and will not feel surprised that it should suffice to occlude the ends of the vessels after the removal of the needles.

It is more difficult to understand how the closure of the end of a vessel that has been tied is effected when no thrombus is formed. We generally assume that a thrombus is formed which closes the vessel until the wounded surface has healed. That this thrombus disappears at a later period, the artery becoming closed finally by a cicatrix, is shown by the fact that, in all the healed amputation-stumps that he has examined, Billroth has found the arteries terminating conically, without any trace of thrombas being discernible. Are we to conclude that, in all the cases in which no thrombus was present, hæmor. rhage would have occurred had the circular eschar caused by the ligature separated? The question is not easily answered, but it is very probable that the end of the artery conically disposed by means of the ligature might remain so fixed by the fibrinous exudation, which, on the fall of the ligature, if this did not happen too early, would close the aperture. Kocher well compares this occurrence to Cooper's operation for the closure of a small aperture in the intestine. The peritoneal and mucous surfaces are taken up by a forceps and tied; but although mucous membrane is brought in contact with mucous membrane, union only becomes possible after its division, and when brought in contact with the peritoneum. This, without being a good operation, serves to illustrate how an artery without any thrombus, and without its walls uniting with each other, may become closed. After the fall of the ligature, any disposition of the artery to recover its cylindrical form by means of its elasticity would be impeded by the fibrinous effusion or granulations. The clasticity would also be considerably diminished in consequence of the participation of the vessel in the surrounding inflammation. The general onclusion to be drawn is, that the orifice of an artery that as been tied may he closed without a thrombus; but that, in the absence of thrombus, acutorsion is a more secure procedure than ligature.

It has justly been remarked how extraordinarily rarely hemorrhage occurs after the ligature of the ends of arteries in an amputation-stump or in a large wound. Its far commoner occurrence when a ligature is applied in the continuity of the vessel has led to the application of a double ligature and a division of the artery between them, under the idea that the formation of thrombus would be thus more favoured. An examination of the results of ligature has also led to a wellgrounded belief that when the vessel is tied in continuity the central end becomes better secured by a firm thrombus than the peripheral end. There are, indeed, but few cases on record in which it is shown with exactitude from which end the hæmorrhage has really occurred after the separation of the ligature; and certainly more facts are required before any definite couclusion can be arrived at. It is evident, however, that the definitive closure of wounds or the ends of arteries is more difficult after ligature in continuity or hemorrhage would not occur so much oftener. This has been sought to be explained by the defective thrombus-formation; and leaving out of account the cases in which the closure may take place without any thrombus, there are circumstances which may exert an unfavourable influence. Among these is the more or less difficult displacement of the tissues around the artery, impeding the spread of granulations over the tied artery. Those spots are especially unfavourable to ligature in which the artery is surrounded by a very dense immovable tissue, or when it lies on a bone. The subclavian (where it passes over the first rib), the femoral (first under Poupart's ligament and then in the tendinous sheath of the adductor), and the popliteal, according to this view, should be especially liable to hemorrhages after ligature; and this corresponds tolerably well with the results of experience. Certain motions, also, are especially likely to disturb the healing process going on in the artery. Thus, moving the arms, deep respiratory movements, cough, sneezing, etc., may give rise to a rupture of the recent cicatrix, which may secure the aperture of the carotid or subclavian after the fall of the ligature. Raising the pelvis in order to pass a bed-pan under might induce hemorrhage from a femoral which had been tied under Poupart's ligament.

Among the circumstances which may favour secondary hemorrhage is the pyremic condition. This in itself exerts no influence on the solidity of the arterial walls, nor does it impede the formation of thrombus; for those who ascribe to pyramia an influence upon secondary hemorrhage also, for the most part, admit as one of its consequences extensive venous thrombi, which, indeed, in Billroth's opinion, are chiefly due to periphibitis. If a lake believes that the pyramia favours the softening and disappearance of the thrombus, as almost all recent pathological formations take on under its influence a purulent character. Moreover, the failing and relaxed granulations are ill-suited to effect a definitive closure of the vessel, especially when the thrombus is defective or absent.

In concluding this subject, Professor Billroth states that thus, although in the majority of cases a thrombus is formed after the lignture of an artery, the length and obseiso of this to the walls of the vessel are far more variable than most Surgeons formerly believed. When the lignture cuts through at an early period, and a firm thrombus is present, this is a very favourable circumstance, as the bleeding may be not only temporarily but permanently arrested until cicatrisation of the artery is effected. Experience of the uncertainty of thrombus-formation has, however, led to increased attention being paid also to the other modes of preventing hemorrhage. Among the precautions taken in order to favour the formation of thrombus is the rule that we should not tie an artery in the immediate vicinity of a large branch, or, if this is unavoidable, that the branch

should also be tied. Another is the application of a double ligature and the division of the artery between them. Both precents are useful, but, unfortunately, they furnish no guarantee that hemorrhage may not follow ligature, as is shown by some of the cases related in these letters. That inflammation of the walls of an artery, induced by their free exposure, will lead to extensive thrombus-formation, is contradicted by the author's trials made on the carotid and axillary arteries. Various attempts have been made to induce thrombus by acting upon the inner coats of the artery by means of ligatures temporarily applied, pressure with forceps, etc. ; but as, to be effective, the injury done to the artery must be considerable, there is no security that in the constricted portion gangrene may not be occasionally induced or an aneurism developed. Another plan is, after having tied the vessel in its continuity, to place two small acupuncture needles about four liues above and two at four lines below the ligature, leaving them is situ for forty-eight hours. The procedure could not be executed in all localities, but no ill effects need result from it, unless the thrombus, from being very extensive, gave rise to gangrene of the limb. Whether a thrombus so induced would remain and become organised, or whether it would have only a short duration, it would be difficult to predict. Upon the subject of durability of thrombi, Billroth has made many observations. Some of those which form in cavernous tumours and veins persist in the form of phlebolites, or occasionally stretch across the cavities of the vessels in the form of calcified cords. Arterial thrombi in arteritis with gangrene, as a rule, remain; and on a section of a thrombus of the posterior tibial, chalk and a great deal of pigment were found imbedded. A thrombus, when it becomes very vascular at au early period, probably soon disappears; but in other cases it may persist and petrify. In conclusion, Billroth adverts to the recommendations which have been made of healing the wound as speedily as possible, and thereby securing the definitive closure of the artery; of separating this as little as possible from its sheath, and applying ligatures strong enough to exert sufficient pressure, but not completely to divide the inner coat. In allusion to Hennen's practice of cutting the ligatures off short and leaving them in the wound, he observes that the silk we employ at the present time is better suited to this practice than that used formerly, In one of his successful cases of ovariotomy, fourteen silk ligatures cut short have remained within the abdomen for years without any ill effect.

PARLIAMENTARY. - METEOPOLITAN POOR ACT AMENDMENT BILL -ATTENDANTS ON LUNATICS.

On Thursday, May 11, in the House of Lords,

The Metropolitan Poor Act (1867) Amendmont Bill was read a second time, the Earl of Kimberley explaining that further ascommodation for small-pox patients was required than was afforded by the three Hospitals erected under the Act, and that the Admiralty were ready to place a ship at the disposal of the Poor-law Board. This arrangement necessitated an amendment of the Act.

On Friday, the Metropolitan Poor Act Amendment Bill passed through committee.

In the House of Commons, on Monday, in reply to Sir James Lawrence,

The Chancellor of the Exchequer said the Commissioners of Inland Revenue were simply giving effect to the existing law in reference to the licences to attendants on lunatics. No licences were required by the attendants on lunatics in institutions supported by the public, but whenever a patient had a person attending upon him as a servant, a licence must be taken out.

THE METROPOLIS WATER-SUPPLY BILL.—Mr. Bruce expressed a hope in the House, last week, that, in the interests of the poor in the metropolis, this Bill would be passed during the present session.

THE AUTUMN TOUR OF A DRESSER, 1870.

PART III.

(Continued from page 461.)

Wakino about four o'clock next morning (Tuesday, August 30), we set off in search of fruel, and, "requisitioning" mome vinesticks, proceeded to build up a fire and prepare our breakfast. —a meal we found very comforting after the night's biven. About six the commissariat column in whose company we had left Rénully moved on.

A few miles from Corny is Gorza, a large village in the valley of the Moselle, the houses of which, at the time we passed through it, were full of sick and wounded from the bloody fields of Gravelotte, Gorza, and Rézonville. There were a great many cases of typhos exthauthematicus, cholera, typhoid, and dysentery. This we learnt on passant. Our journey lay west, and we had to ascend a steep incline, the summit of which was a plateau some two miles square, which was the scene of the celebrated victory gained by the Germans was the scene of the celebrated victory gained by the Germans capital process of the conditions of the composing corpess being almost unbearable, and there being, at every twenty paces, piles of helmets, knapsacks, and broken muskets heaped up.

Connecting Gorze and the field of Gravelotte is a wood, through which truns a road with ditches on either side, about a mile in length. These ditches presented a most extraordinary spectacle, being completely filled up with broken rifles, helmets, knapsacks, sabres, and the usual debris of a battle-field. The field of Gravelotte itself, occupying an area of over four miles, bore fearful testimony to the determination and ferectly with which the fight was waged by the contending armies, not a vestige of vegetation was there to be seen up in all directions by the whock of guacouriages and shot and shell, and littered with ammunition—expended and otherwise—and rifle.

Passing through St. Marie-aux-Chènes, where the large houses had been converted into defences, and the walls and roofs were drilled with holes from shot and shell, we ascertained that Prince Louis had changed his head-quarters to Pierrevilliers, a small village to the north-west of Metz, between the latter fortress and Thionville, where, after a hard day's march, in the course of which we passed along the outer line of investment, we arrived at air in the evening.

nine of investment, we arrived at all in one evening.

Immediately, on our arrival, we were directed by our chief
to start for Agneaux-la-Grange, a handsome old château
which the Germans had converted into a Johanniter depôt, for which purpose a barouche and a pair of horses had been kindly provided for us by Prince Louis. At Agneaux-la-Grange, in addition to the depôt, there was a large military field Hospital, over which we were taken by the Staff-Surgeon in command We found that our services were not immediately required, there being already a sufficient number of Surgeons on the staff, but we were directed to hold ourselves in readiness, as a sortic was anxiously expected from the beleaguered fortress, the result of which would require the services of all Medical men on the spot. We here saw several cases of primary amputations which were going on very badly—in fact, many were gan-grenous; and I observed a manner of treating recoding flaps, when the end of the bone was uncovered, by applying longitu-dinal strips of plaister around the limb, with the unattached ends long enough to be able to obtain gradual extension; a few cases of tetanus, no recoveries; a great number of resections of the elbow, which, with a few exceptions, seemed to be doing well—the resections of the knee proved in every case (as far as I remember) mortal—and others which called for no special comment. After having afforded some assistance in dressing, etc., we were requested by the Staff-Surgeon to go to the adjoining village of Joinville, where the church and some of the houses had been converted into temporary Hospitals. I cannot say the offer our services was accepted by the Surgeon in command in the same spirit in which it was made : in fact, we were regarded more in the light of interlopers than other-

wise, and our proceedings were watched very jealously.

There was nothing left, therefore, for us but to return to the place from whence we came, where we stayed for two days more, doing what service we could.

We then proceeded in reserve with the Hessian division to the new head-quarters on the east of Metz, where the sortie was expected, and where it actually came. It was the desperate sortie of September I, which was not repulsed until after several hours' hard fighting. We had no occasion to complain of any lack of work that crening, as we had to attend with the military Surgeous to about 400 wounded, which had been deposited

in a large château in the neighbourhood.

The Hessian troops, to whom we were temporarily attached, being in reserve during the action, had but little to do, and were ordered to return the next day to their old head-quarter at Pierrevilliers. Here we renained all through September, doing such service as occasion required of us, getting quite injured to all the sights and sounds incidental to the great game of war—the deep, sullen roar and reverberating echoes of heavy artillery, the march and trilling of troops, the tattoo of heavy artillery, the march and trilling of troops, the tattoo of services of attendants in calling us in the morning or in announcing bed-time—a friendly or hostile gun did that for us, for, as day dawned and evening closed, the salutations of For Mont Julien, most politely returned by the Prussian batteries, rang in our carse. One day, while out sketching in the neighbourhood of Thionville (much too close to be prudent). If received an unpleasant experience of the French army. Hearing the sound of military music, I looked up and saw at no great distance a company of red truscers who had issued from great distance a company of red truscers who had issued from great distance a company of red truscers who had issued from great distance a company of red truscers who had issued from great distance a company of red truscers who had issued from great distance which whizing over my head, caused me to be each an undignified and precipitate retreat, leaving my sketching materials in the hands of the enemy.

materials in the hands of the enemy.

About the end of September we learnt that the National Society had sent out £2000 for the purpose of founding an English field Hospital in the rear. Darmstadt was the spot chosen, and thither we had orders to proceed. To reach our destination we had to take a round-about route. Pierrevilliers, as I before stated, was to the north-west off Metz. From it we went by means of country carts returning homewards, which had been supplied for the committee of the contract of t

The train moved on while we were slumbering peacefully on the bare boards of our truck, and when we did open our optics it was at our old friend Remilly again. Here we were delayed for one or two hours, still in the horse-truck; once off

we were not long in reaching Saarbrucken.

We were not tong an reasoning concincions.

Here we found ourselves much more agreeably situated,
Here we found ourselves much more we we did not stay
long in this "land of promise," as our orders were imperative;
so on we went to Darnastad, which tow we reached after a
night's stay on the road (i.e., in our railway-carriage). I have
neglected to state that we left our sanitary corps doing duty
with the Hessian troops at Pierrevilliers, three of whom, we
subsequently learnt, died of dysentery, and five or six others
of the same corps were invalided home, narrowly escaping
death. We English, I am thankful to say, without an exception, passed unscathed throughout our experiences of the canhad to endure a separation, two of the four being sent to
Strasbourg (the famous siege of that town being then in full
swing), while I had to proceed to Bingen-on-the-Rhine, a town
well known to English tourists from its attractive situation,
where a tent Hospital, which has of late become famous, was in
process of erection. Our chief stayed at Darmatadt to superintend the completion of the field Hospital provided by the

National Society.

For the first fortnight or three weeks I was at Bingen I had orders to attend every alternate night at the railway station, for the reception of the wounded and sick, who came literally in shoals from the socne of war. Though I was not imme-

diately connected with the International Field Hospital at Bingen, yet in my leisure moments I took the opportunity of

inspecting it, and a short description of this most interesting place will not, I trust, be thought amiss. It was situated in a large field on an eminence overlooking the Rhine, enclosed on all sides, in some parts by wooden

hoardings, and in others by artificial hedges, so constructed as to allow of a free current of air, without any of the inconvenience possible to be raised by a strong wind. It was composed of a series of tents, each bearing, in large red letters, the German inscription of "Vom Deutschen Hulfsverein in London," German inscription of "o mintenscene numeric measurement and certain wooden buildings supplementary to the tents. These words are maged in two rows, with a broad path between each row, and the supplementary to the control of the supplementary of the supplementa necessary, passed underneath the boarding. selves were about thirty feet in length, and of proportionate height and width. A moderate-sized shed at one end served as an operating-room, and answered its purpose admirably; another, in a different part, was the wash-house. The water for the use of the Hospital was obtained direct from the Rhine by means of a powerful engine placed on the river just above Bingen, which pumped the water up to a large tank creeted ou a lefty scaffolding at the east end of the plateau on which the field Hospital was situated; pipes communicating between the tank and each tent conveyed the necessary supplies. The tank was brought out from England at great expense; the charcoal-filters in use here were also appolled by an English company-the water-purifying company in the Strand, I think. The drainage arrangements were equally perfect, no complaint, as far as I heard, ever being made of them. The cooking, etc., were carried on in a temporary kitchen attached to the Hartwere carried on in a temporary attenen attaened to the furr-mann Hotel adjoining, which also, in time of need, contained patients for whom no room could be provided in the Hospital itself. Telegraphy was also called into requisition, a series of wires connecting the Hospital with the railway station at Bingenbrücken, so that no time was lost in obtaining information of the arrival of the wounded, nor in their transport to the

The sick transport carts in use were designed by Herr Collischon, manager of the Hospital zum Heiligen Geist at Frankfort, and were built, as I believe, at Heidelberg; they all were hand-carts, with just room for one patient in them, who re-posed in a litter supported on springs, admirably balanced to the cart; over the whole was raised a covering of canvas. The vehicle itself was taken up the hill to the Hospital by two men-one pulling in the front, and one shoving behind. The springs to which I have alluded effectually obviated the ill-

effects of any jolting that might arise during the conveyance.

The menage and all the interior arrangements were simply perfect, the most cordial understanding existing between the British and German Medical officers, and every courtesy being shown by the Government officials to the Medical staff. here, I trust, pay a slight tribute to Mr. Simon, the Medical Officer to the Privy Council, who was the founder of this Hospital, and under whose direction all these admirable arrangements were carried out. For the first fortnight of its existence he had the entire management, but then, after having done all the good that a man can do, the state of his health, I regret to

say, seemed to necessitate a journey to Italy.

By way of conclusion, I cannot do better than add the folwing extract from a letter which was sent by Mr. Herbert William Page, one of the Assistant-Snrgeons, to his brother, Mr. Ernest Page-an extract which appeared in the Times at the end of last October, containing, as my readers will perceive, an account of the total destruction of this remarkable place. It was, however, anbsequently re-erected, and finally handed over to the German authorities, who removed it to Cologne, accomto sue creman authorities, who removed it to Cologne, accom-panied, as a German would-be satisfs remarked, in one of the Cologne papers, "by a brave son of Albion, rejoicing in the name of Smith, and some few score time of preserved milk."

"Last night, amid a storm unparalleled for its violence, and

such as I never shall forget, which rose as suddenly as it departed, after forty-five minutes' duration, the whole Hospital was swept off the face of the earth. Never was such a scene! never such agony! If it was awful for wounded men, without shoes or stockings, with nothing but their blankets, which in a second were drenched, to turn out and be exposed to the elements, it was even worse for the sick. Imagine a typhoid fever patient, for whom it is almost fatal to move in bed, having to take up his bed and walk! The storm began at 8-15 p.m., and not till one this morning did we succeed in housing the unfortunate creatures in the operation-room, in the porter's lodge,

and in the hotel. The wonder is that they all lived through it. To-day, what a wreck! Nearly every roof is stripped, and the people declare they never remember such a storm

"WORK DONE UNDER THE RED CROSS."(a)

MR. MACCORMAC, in his "Notes and Recollections of an Ambulance Surgeon," by simply recording his personal experience and the impressions he derived from the rather novel circumstances in which he found himself placed, without entering upon a systematic account of gunshot wounds, has produced a moderate-sized and well got-up book, which possesses very considerable interest for general as well as Professional readers. He writes in the simple, unpretending style of a man so completely absorbed by the work in which he was engaged as to feel apparently that fine writing in the recital would be unworthy of the importance and serious nature of the events which he witnessed, and in which he took such an active part. Although he does not think there is much that is mysterious or unknown to the exoteric Snrgical world in either the principles or practice of military Surgery, Mr. MacCormac admits that errors may be committed by being too exclusively guided by the experience gained in civil Hospitals, and that, had he by the experience gamed in civil ricopitals, and that, had he another opportunity similar to the last of practising military Surgery, he would not yield so often as he did to the temptation of trying to save limbs, the bones of which were seriously damaged by conoidal bullets; and that, however reluctantly he may come to the conclusion, he fears that radical and not conservative Surgery is the great principle of treatment for severe cases of gunshot wounds which must be cared for on or near the field.

This is exactly the principle which military Surgeons maintain, and it will no doubt be gratifying to them to see it advanced by so high an authority. By the admission that, in the extensive opportunities which he has had of practising military Surgery, his views founded on the experience which he had attained as a civilian Surgeon underwent considerable modification, Mr. MacCormac affords a sufficient reply to the mouncation, Mr. ascordina inforces a sametime reply of the proposal that, in case of this country being engaged in war, the services of distinguished civil Surgeons should be employed to advise with, or in any way control, military Surgeons on points of practice. Mr. MacCormes must now feel himself better qualified to set in such a capacity than he would have been had he not become so practically acquainted with the difficulties with which military Surgeons have to contend.

On the subject of the aid so impartially afforded to the belligerents by what Mr. MacCormae considers the large-hearted blerality of neutral powers, especially England, we unfor-tunately are of those who differ from him, not only as to the propriety of such aid on the part of neutral powers, but as to the value of the aid afforded by England during the late war, relatively to the vast expense at which it was effected, and to the detriment which it is known to have inflicted on many of our most deserving charities at home, both public and private. Such views Mr. MacCormac considers to be founded on somewhat harsh and narrow-minded premises, which the sterner logic of the appalling suffering on the actual field of battle would soon cause to melt away; nevertheless, we hold them, and in so doing must agree to differ with Mr. MacCormac.

Having devoted so much attention to the preface, we now turn to the body of the work; and here we find in almost every page matter calculated to interest and instruct. The first and second chapters contain a short account of the preliminary visit to Metz; the condition of the garrison and the inhabitants; the difficulties by which he was beset, and by which he was ultimately compelled to leave the town and return to Paris, where he became connected with the Anglo-American Ambulance, with which, having been delayed on the evening of August 30, near Sedan, he had an opportunity of seeing the Emperor, MacMahon, and the whole Etat-Major arrive during the night, the front thus coming to the ambnlance party, instead of their going to the front. They there had the good fortune to be placed in possession of a large Hospital containing 384 beds in the Caserne d'Asfeld, an infantry barrack situated on the ramparts of Sedan, of which a good

⁽a) "Notes and Recollections of an Ambulance Surgeon." By William MacCormac, M.A., M. H. A., Assistant-Surgeon to 8th Thomas's Hospital, Consulting Surgeon to the General Hospital, Relfast, and Member of Senate of the Queen's University. Svo, pp. 153. London: J. and A. Churchill, New Burlington-street, 1871.

view is given in the frontispiece. The battles on August 31 and September 1 and 2'soon supplied Mr. MacCormac and his colleagues with an overwhelming amount of work, the particulars of which, interspersed with many exciting and pathetic incidents, are detailed in the following chapters. In the plan of its construction, the Caserne d'Asfeld was almost everything which a Hospital for wounded men should not have been. It was a two-storey building about 240 feet long, containing nine large rooms and four smaller on each floor. With an average of twenty beds in the large wards, each patient would have had a cubic space of 450 feet; but as, at first, there were twentyfour occupied beds in each, the cubic space was only 375 feet. The wards, which ran pretty nearly north and south, had large windows at each end, and the intercommunicating doors were at the middle of each side. Some of the smaller rooms were used as sleeping apartments for the members of the staff, and others as separation wards for particular cases, for stores, and for an apothecary's shop. During the fighting on September I the Prussian shells several times struck the building, and some burst in the inclosure, killing and wounding several personsamongst the rest two male nurses or infirmiers, and a number of soldiers. Meanwhile, Mr. MacCormac and his colleagues were attending on the numerous wounded, and actually operating in the direct line of fire, with the shells hitting the building from time to time. During the first ten days or fortnight the staff were shorthanded and overworked. From the diary kept by Mr. MacCormac he finds that frequently they had been working for twenty hours at a time, performing operations, noting cases, and making dressings.

The French voluntary ambulance corps are described by Mr. Mactorians generally as having been monstrously cumbrous. There were too many Surgeous, too much material to transport, and too many inferious. An a system of organisation, he considers the French Society for Aid to the Wounded to have, to a certain extent, falled in its mission, and not to have effected

an amount of good proportionate to its resources.

The German authorities, on September 12, shortly after getting possession of Sedan, transferred 130 of the French wounded from the ambulance in the college, or district public school building, to the Caserned 'Asfeld, in order to make room for their own wounded. The transference was effected during villanous weather. Of the new-convers, 165 had received serious injurios, and the remaining twenty-five were cases of ferer and Hospital became fearfully over-cravided. Very few days passed until the wounds of the original patients began to after in appearance for the worse. Secondary hemorrhage became frequent, many of the most promising cases of operation showed symptoms of pyzemia, and nearly all the patients, in fact, sickenel more or less. The difference was felt even among the staff, for cas and nill got attacks of some sorts of illness, Dr.

Sims alone being happily exempt.

An increase in the death-rate was soon observed. In thirtythree cases death arose from acute pysemia. Twenty of these
deaths occurred within a few days of each other, and twelve of
the twenty within a few hours of each other, on which Mr.
MacCormac remarks that, although it is dangerous to draw conclusions from limited premises, "if the disease run an approxicommenced in these different cases about the same date, and
other considerations fix that date as being from September 9
to 12, when the large numbers of fresh patients were crowded

in upon them.

This high-handed action on the part of the German authorities appeared to the Surgeons of the Caserne d'Asfeld at the time, nuder the circumstances, most unwarrantable and cruel, and a distinct violation of the Genera Convention, according to which a wounded man becomes jum facto a neutral, and should cease, so far as the Dectors are concerned, to possess any nationality whatever. With our frequently clauses of the Genera Convention, we can hardly join Mr. MacCormae in his indignation at their infringement. The result, no doubt, was most lamentable: but if the Germans had supposed to be concerned, they would have been so much more than human that they would never, even in the defence of the Fatherland, laste in the first instance accepted the cruel arbitrament of war. Being victorious, they did the best for their own, as conquerors ever will.

Mr. MacCormac details a curious item of Professional experience, of which he was himself the subject. Having received a cut on the finger, he found on September 5 that the lymphatics up the arm were inflamed, he had a smart rigor.

and felt very unwell for a day or two, but shook off the attack; afterwards, however, notwithstanding several cuts on hisfingers and frequent contact with offensive discharges from younds, it seemed, strange to say, as if the first incoulation had procured for him immunity from such influences, for he experienced no farther trouble from that cause whatever, although the hardly expect that on this exceptional instance any one would like to found a vatern of prophylastic incolation.

nie to found a system of prophyrateen modulations.

In all amplitations digital compression of arteries was proIn all amplitations digital compression of arteries was proticed and the property of the property of the conformation of the transition of the knee-joint, nine terminated
fatally. In only one case, because it appeared so very
suitable, did Mr. MacCormae attempt resection, but the result
was specilly fatal. His conclusion is that in military Surgery
immediate amputation should always be practised in gunshot
wounds of the knee clearly implicating the articulation.
Pyreniu, as a rule, occurred only in those cases in which the
bone had been injured, or in which amputation had been performed. It was far more frequent, also, after secondary than
after primary operations. In some cases of resection of the
to have been performed by German Surgeous, he was much
surprised to oberve that the method adopted was by transverse
instead of by longitudinal incision, the result, as might be
expected, being in all exceedingly unsatisfactor.

In addition to the statistical results attained in the Caserne

d'Asfeld, Mr. MacCormae gives those of the Feld Lazareth at Floing, under Stromeyer, the latter being much the more favourable-attributable, in our author sopinion, to the patients having been treated virtually in the open air in small detached wooden huts without windows, but with the sides open in their whole length by means of large louvres, and when these were all raised, the entire eircumference of the hut was laid open. Only ten patients were treated in each, and Stromeyer had a large staff of Surgeons and assistants under him. In the treatment of gunshot fracture of the upper arm, Stromeyer has employed a triangular cushion instead of splints, and considers it the most valuable appliance he has invented during his life. The cushion is in the shape of a right-angled isosceles triangle, four inches thick at the apex, which rests against the chest and supports the elbow, the forearm being bent at a right angle with the arm; the base is narrowed down to a mere edge, and one angle passes up into the axilla, while the other rests and one angie passes up into the axills, while the other rests on the clest under the wrist. While this simple apparatus is applied, Mr. MacCornac tells us the arm rosts upon it beauti-fully supported and in excellent position, the ordinary dresslngs are easily applied, and in case of its being necessary to transfer the patient from one place to another, or if he be fit to walk about, the cushion, arm and all, can be bound by a broad

bandage to the body, and thus form an immovable whole. Mr.

MacCormac has tried this treatment himself, and has found it answer every purpose. We have, however, been informed by another Surgeon who visited the German armies during the

war, that this cushion is not universally popular among German Surgeons, and is in fact little used, except in Hospitals under Stromeyer's own superintendence. The idea appears good, and we should be glad to hear of its being put to a practical test in

this country.

Notwithstanding the length at which we have noticed Mr.

MacCornac's book, much remains in it to reward individual
readers. A few well executed woodcuts, and sven exquisite
heliotype sketches by Mr. Ernest Edwards, add mach to the
value of the work. Our space only permits us to congratulate
the members of the Anglo-American Ambulance on the highly
creditable manner in which they acquitted themselves in the
trying scenes through which they passed at Sedan, and to
express to Mr. MacCornaco our best wishes for his success in
the well-carned metropolitan career now before him as one of
the staff of St. Thomas's Hospital.

Yellow Fever in Burnos Ayres.—It is estimated that 15,000 persons have fallen victims to this epidemic since its first outbreak, and among them are included a number of well-known British residents. 80,000 of the inhabitants have sought safety for their lives in the open and uninfected places. All business is suspended until May 1, by a decree of the Government.

THE annual return of deaths of seamen reported to the Board of Trade as having died in the British Merchant Service shows—5237 in 1868, 4832 in 1869, and 4523 in 1870. The return includes all ratings from mates downwards.

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF

New Cases of Small-pox occurring in the Public Practice of the undermentioned Districts.

	_	No	o of C	ases v	reek e	nding	
Districts.	April 8.	April 15.	April 22.	April 29.	May 6.	May 13.	May 13. Sent to Hospital.
West-	-	_	_		_	_	-
Chelsea	4	9	9	9	4	9	-
St. George, Hanover-	1						
square	12	16	19	23	14	1 t	7
St. James, Westminster	8	8	6	2	8	1	
Paddington	9	: 5	24	12	20	24	20
Nовти		1					
St. Pancras	122	102	12t	89*	104	F	_
Islington	54	1 69	67	59	64	59	39
Hackney	31	1	46	30	_	1	_
CENTRAL-			1				
City of London	7	16	14	13	5	13	12
St. Giles - in - the - Fields .	9	11	2	14	5	5	7
Holborn	1 4	8	8	9	5	13	12
St. Luke's	20	20	17	25	12	13	12
EAST-							
Whitechapel	19	14	17	23	7	4	. 2
South-					1	i	
St. Mary, Newington .	27	34	37	47	25*	28	38
St. Olave, Southwark	3	3	3	5	3	2	1
St. George-the-Martyr.							
Southwark	19	30	31	26	. 9	9	_
Lambeth	32	24	1	32	20	-	
Clapham	40	28	23	32	29	13	9
Wandsworth		6	6	8	4	4	1
Putney	9	1		1	1 8	9	-
Streatham	4	7	2	. 9	9	7	_
Greenwich		1	1	-	2	P	_
Lewisham	4	1 7	9	7	_	_	
Plumstead , .	19	5	3	3	-	6	1

REVIEWS.

The Geographical Distribution of Heart Disease and Dropsy in England and Wales. (Illustrated by a large coloured map.) By ALFRED HAVILAND, M.R.C.S., late Surgeon to the Bridge-water Infirmary, etc. Folio, pp. 61. London: J. and A. Churchill.

We believe we are correct in saying that this work is the first undertaking on a large scale, having for its object the utiliza-tion of the scale of the scale of the scale of the scale the purpose of determining the habitual localisation of diseases, and of drawing therefrom such inferences as may arise out of the inquiry. From time to time, in his various reports, the Registrar-General points his finger to certain spots which, during the periods the reports embrace, have been the esset of local outbreaks of contagious epidemic or endemic disease, and thus calls the attention of sanitary authorities to the duty of chastoms are assention to samtisty authorities to use unity of checking their spread or preventing their recurrence. From time to time, also, with praiseworthy assiduity, the Medical Department of the Prity Council, taking cognisance of the facts and figures issuing from the sister establishment at Somerset-house, tracks the destroyer to his lair, and stirs up local boards to unaccustomed effort. But the task which Mr. Haviland has set himself to accomplish is of a broader character, and his work is consequently not only of local but in the fullest sense of national importance. That which we are now about to review is only the first part of a volume which, when completed, will probably be one of the most valuable contributions to sanitary literature which this country has received at the hands of a single individual. The succeeding parts will relate to cancer, phthisis, scrofula, small-pox, typhus, scarlet fever, cholera, and diarrhoal affections, lung diseases, and mortality from all causes. The general scheme of the work, and the laborious and patient research of which it is the issue, are deserving of the highest commendation.

In reviewing a book it is often convenient to reverse in some an everwing a cook at is often convenient to reverse in some degree the plan adopted by the author in writing it, and, commencing with his inference, to trace back the steps by which it has been attained. In this way, by keeping continually in view the final result, the evolution of the argument is invested with the results industry. with the greater interest, and its value is more readily tested. Putting, then, Mr. Haviland's inference into the form of a proposition which he has engaged to prove, it would stand somewhat thus: Heart disease, for the most part, depends upon a materies morbi resident in certain localities, perhaps in all, operating usually by the resistent in certain localities, perhaps in ait, operating unaility by the establishment of a rheumatic couldition of the system, not necessarily of a regular attack of rheumatic fever, but insidiously, often unheaded and occurring in early life. This materies morbit may be regarded as an "sir-secouge" of animal or vegetable origin, or both. Its accumulation in any locality leads to excusive development of its results in that place, while, on the other hand, heart disease in the second of the control of less prevalent where the air-sewage is more or less freely scept away by the operation of currents of pure air, the purest air being that arriving at the spot after having passed over an extensive surface

The proceeding to lay before our readers the proofs afforded of this proposition, we must say a word about the conjunction of heart disease and dropsy adopted by the author. And this is the more necessary, because he does not refer to the subject himself. General dropsy is, as everybody knows, a condition which arises out of a variety of interlaced causes; it is but a symptom of other diseases-notably of the heart and depurating organs—and its appearance as a specific disease in the nosology of the Registrar-General can only be looked upon the nessuogy of the negativar-teneral can omly be 100 ket upon as a necessary concession to the imperfection of diagnossi inseparable from a national return of causes of death. Mr. Haviland's justification, as we hold, lies in the general experience of the Profession that, whatever the primary lesion examination in a case of chronic dropsy, whatever other mischief may be revealed, to find the heart more or less structurally damaged. The observer may in such accordance of the control chief may be revealed, to find the heart more or less structurally damaged. The observer may in each case adopt his own view of the order in which the lesions of the several organs were brought about, but the fact remains, and we think Mr. Haviland was justified in availing himself of it. Had he failed to do so, and to recognize the symptom of dropps as associated with heart disease, we think he would have been throwing away no small part of the truths upon which he had to rely in his investigation. We consider that the small infusion of error arising from the inclusion of cases in which the heart disease played but a minor part in bringing about the fatal result is a little of the business undertaken by Mr. Haviland to show what this "air-sewage" consists of. All he pretends to do is to point out that the prography of heart disease leads high probability to the belief that, if it is not the sole cause of this multiform affection, it nevertheless playe an important

this multiform affection, it nevertheless plays an important part in determining its prevalence. Taking, then, the eleven registration divisions, the fifty-three counties, and the 623 union districts into which England and Wales are divided, he umon unstructs mo which Engiand and Waies are divided, he indicates, as respects each, the facts which come out of an analysis of the death-rate during a period of ten consecutive years, [831-06]. In this way, as he says, he is enabled to sift his facts through three gauges of different degrees of fineness. I. As respects the eleven registration divisions, he finds that

the two midland divisions have a mortality from heart disease and dropsy above the average, and that two-thirds of the coastal divisions have a low rate of mortality. Then, comparing the character of the coast line which forms the boundaries or the divisions having a high with those having a low mor-tality, he finds, coincident with a high mortality, a precipitons rock-bound coast, having few inlets, and those at right angles to the prevailing winds and the current of the tidal wave; and, on the other hand, coincident with a low mortality, low or and, on the other nand, coincident with a now mortality, i.w. or shelving coasts, valleys, and rivers, having a direction in their course favourable to the free access of the prevailing sea winds and tidal currents, and numerous sea inlets opening into wide vales, which freely admit a thorough afflux and efflux of power-

ful winds from any quarter.

2. As respects the fifty-three registration counties which make up the registration divisions, Mr. Haviland finds, first, that the coastal counties with a low mortality from heart disease that the constet counties with a low mortality from heart disease and dropys are more numerous than those with a high mor-tality; that those most exposed to the prevailing winds or mor-tality; while those which are not protected by their physical surroundings, and are most inland, have the prevaiet mortality. As regards the inland counties, on the other hand, out of twenty-six only six have a mortality below the average. Dividing the counties into coastal, inland, and midland or central counties, the death-rate from these diseases was as follows:—Coastal, 11.9: inland, 12.5; and central, 15.1 per 10,000 persons living. Thus, coincident with the lowest amount of exposure to the sea air, as in the midland counties, is the highest amount of mortality in those counties. On the other hand, coincident with the highest amount of exposure is the lowest amount of mortality; and, finally, the counties which lie intermediately between these extremes have also an intermediate death-rate.

3. As respects the 623 union districts, the coastal registration districts, as a rule, have a low mortality from heart disease and dropsy. There are three coast lines around England and Wales—the east, the south, and the west. "Coincident with the great number of sea inlets and low coast line on the eastern side of England we find a low mortality in 29 out of 41 districts. Coincident with the rocky and precipitous coast of the south, an absence of important sea inlets, and, the courses of the rivers being at right angles with the prevailing winds, we find that of the 40 districts 28 have a high mortality. And lastly, coincident with the physical facilities afforded on the western coast for a full purging by the strong winds from the Atlantic of the valleys from air-sewage, it will be seen that out of 52 districts, from Redruth to Wigton inclusive, 42 are below

the average, and only 10 above it."

With regard to the inland, midland, and insular or peninsular districts, Mr. Haviland finds that, on the whole, the inland districts have a higher mortality than the coastal, but that the low-mortality inland districts are found contiguous to those which border the great sea inlets and the coast, as well as where there is elevated ground admitting of free ventilation as where there is elevated ground admitting of tree ventilation on all sides; that the midland groups of districts, which are not intersected by the great sea inlets, but are protected by high ranges of hills on all sides, have the highest mortality; and lastly, that the insular and peninsular districts, the most exposed to the sea winds of all districts, have a low mortality

from heart disease and dropsy.

This is the proper place to mention that the large map of the union districts is coloured in six different shades, three of blue and three of red, to correspond with three degrees of mortality above and three below the average. We should regret that we cannot follow Mr. Haviland in that part of his analysis which relates to the geographical distribution of these several six degrees of mortality from the disease in question, were it not that we feel that the work itself must of necessity find its place with other standard works on hygiene upon the abelves of overyone who is not satisfied with the bare outline which we have been enabled to present. It must suffice us to say that this minuter inquiry only tends to corroborate the inferences derived from the grosser analysis, even to the extent inferences derived from the grosser analysis, even to the extent of accounting for the differences of mortality of different districts of London and its vicinity, according as they lie upon different reaches of the river, according as they are free to be swept by the sea winds running up the Thames Valley, and according as the direction and width of the main thoroughfares and the abundance of open spaces favour or disfavour their

We have, therefore, only further to add that for obvious national work also; and hence Mr. Haviland has a right to expect to find upon the list of his contributors, at least, every expect to find upon the list of his contributors, at least, every public sanitary board, not only in England and Wales, but wherever the English language is read. The law he has established cannot be believed to be applicable to our kingdom alone. We ought to know how far it applies to and is modified by the physical geography of foreign lands.

NEW BOOKS, WITH SHORT CRITIQUES.

Companion to the Last Edition of the British Pharmacopæia : comparing the Strength of its various Preparations with those of the paring the Strength of its curious treparations with mass of the London, Edinburgh, Dublin, United States, and other Foreign Pharmacopatias, with Practical Hunt on Prescribing. By PRIKE SQUER, F.L.S., etc., etc. Eighth edition. London: J. and A. Churchill. 1871. Pp. 387.

• • We are glad to see the rapidity with which edition after edition is issued of this very useful work. Its property is that it shows at one coup d'ail the leading facts relating to any given The Practitioner, if he be of some standing, may desire to make sure of the real chemical nature and newest name of any given drug; and old or young may often desire to know its dose, the best mode of combination, and the extrapharmacoposial or popular preparations. All this will be found readily in Squire; and there is not a page that does not contain some hint that could only proceed from a man practically versed in every detail of the combination and preparation of medicine.

Geological Map of London and its Environs. By R. W. MYLNE, F.R.S., F.G.S., etc. 1871. London: E. Stanford, Charing-cross. Third edition.

eross. Third edition.

* This is a map which will have the greatest interest for Medical Officers of Health, architects, and geologists. It is constructed in contour, so at to show the level of overy part about Trinity high-water mark; and every part is cloured in prises an area of 159 square miles. There is also a section, extending from Hendon across the Thames to East Wickham, through Hunghead-hill, Gray-i-in-road, 1-Paul's Cathedral, London-bridge. Greenwich, Blackheath, and Shooter-shill. The map has already all the reputation which its intrinsic excellence and the reputation of the author deserve; and this third citition will be gladly velcomed.

FOREIGN CORRESPONDENCE.

FRANCE.

(From our own Correspondent.) Panis, May 16.

ALTHOUGH in the midst of strife and civil war, the members of our Medical institutions gather together at the usual hours for their meetings to discuss whatever matter may be of interest, as in time of peace. The last two sessions of the Medical Academy have been wholly taken up by M. Verneuil a discourse on purulent infection. This subject was first brought up in 1869, and promised to become very interesting, when, for up in 1809, and promised to become every interesting, when, too some reason or other, the question of vaccination and its sup-scenarios of the control of the control of the pathogeny of pur-years past, much occupied himself with the pathogeny of pur-turn infection, of which his Hospital, unfortunately, has always furnished a vast number of cases. During the siege of Paris M. Vernoull, besides the Lariboistire, also had charge of a temporary Hospital, the Magasins Réunis—a large building, complorary receptate, the magestam atcums—a large bunning, compositive the commentation of the commentatio whole of the discourse.(a)

HOLLAND.

ROTTERDAM, May 16.

THE SMALL-POX EPIDEMIC IN HOLLAND. THE mortality from small-pox in Holland during the past six weeks has been as follows :-

Week e	ndir 18	g	Re	tterdam.	The Hague.	Utrecht.	Amsterdam 50
,,	15			88	31	38	74
**	22		- :	200	36	9	60
22	29			82	38	-	94
May	6			28	16	-	73
	19			40			-

Thus, Rotterdam is diminishing; Amsterdam increasing. In my paper of May 6 on the epidemic of small-pox, etc., there is in the second column of page 510, the twelfth line from above, in the last free years, instead of in the last faver years; but, as in the end I have stated that in the last period falls the origin of a sect of puritans, this is already a correction.

MR. BROUGHTON, the Government quinologist at Ootacamund, has extracted carbolic acid from the Andromeda leschenaultii, a common plant on the Neilgherries. The acid differs in some respects from that procured from coal tar; it is less deliquescent and far more pure, and would therefore be an admirable substitute for carbolic acid in delicate cases. The Madras Government consider this a very important discovery.

⁽a) It shall appear very shortly,-Eo,

PROVINCIAL CORRESPONDENCE.

EDINBURGH.

(From an old Correspondent.)

THE summer session here is fully aflow. Introductories have been given, and students have settled down to work, more especially those who see the pass examinations of June looming not Cally those was see the pass camimations of successions and far in the distance. How many of these regret lost opportunities? The mortality amongst the candidates for the first examination held last month was great. Professor Wyville Thompson, the new Professor of Natural History, is well re-He spoke kindly and justly of Dr. Allison, his predecessor, in his introductory lecture. The new Professor of Geology, Mr. Geikie, has been inducted, but has not as yet spoken; much is, however, expected from him. Edinburgh is well situate as a school for the practical study of natural science. The botanical excursions extend sometimes far into the Highlands-and, by-the-bye, an amusing story was current as to the difficult position in which a "lady student" was placed last year, who had volunteered to accompany the botani-cal class. She got up a high hill with "Excelsior" as her cry, but could not get down again without gallant assistance of a kind I need not describe. It is hoped the Professors of Geology and Natural History will work the resources of the Frith of Forth and of the Pentlands in like manner—ladies excepted. Professors Laycock and Sanders have the clinic at the Infirmary. Protessors Laycock and Sanders have the clinic at the infirmary.

Dr. Sanders will doubtless be found to be a useful acquisition

to the Medical Faculty, as he can combine "practical
pathology" with his systematic and clinical teaching. I hear
that Dr. Laycock is introductory lecture on Medical Psychology

and March December 1999. and Mental Diseases was numerously attended, and that his course interests much. All the best students of the year take the course, although optional, as it is thought to be an excellent finish to their education. A weekly excursion to an asylumon the coast is part of the business, so as to combine science and practice.

There has been a delicious bit of controversy all about nothing, between a learned, but retired Physician, Dr. Charles Wilson, and Dr. Maclagan, Professor of Medical Jurisprudence. The latter gave a preliminary flourish in a letter in which, by an atrocious neglect of the rules of composition, he declared himself ready to prove himself "both unwilling and unable" to convict his antagonist of error. The former was not proved

in a subsequent long letter, but the inability was manifest.

I must not forget that the "lady students" have had their controversial musings in the Scotemen also. A bitter lamentation appeared one morning to the effect that they were shamefully insult-das a body by the same class of Medical wretches who "hurled mud and foul language" at them last antumn; but, on a careful perusal of the indictment, it dwindled into "cowardly" assaults on the bell-pull and name-plate of one of the ladies. Three letters, evidently from the same quarter, have also appeared in the Scotsman, the object of which evidently is to projudice the public against contributing to the funds of the Infirmary, the collection being now made, and the sole excuse being an anonymous letter which appeared lately in the Medical Times and Gazette. The feminine stamp of the logic is plain, and illustrates well the intolerant character of these enthusiasts. Everybody must give way to the schemes of "the little band," whatever be their opinion as to the evils they will inflict upon the prosperity of the University and Medical School of Edinburgh. But of what account is that to the sisterhood of seven, if it stand in their way? The only re-sult of all these vituperations, it is thought, will be to widen and deepen the conviction that the " Medical lady" movement here is worse than a folly, and that the sooner it ends the better for all parties. It is expected the pending trial of Craig r. Jex Blake will elicit facts of the same kind. The "lady students" have been refused admission to the Sick Children's Hospital almost unanimously.

Dr. Keiller spoke in very moderate and kindly terms of "the ladies" in his introductory lecture ou midwifery and diseas of women and children, but clearly showed how impracticable was their proposed scheme of academic union with the men. He also threw ont a good hint—not without a touch of irony—viz., that the ladies might teach rhetoric and botany to ladies very well-the point being that the Professor of these two subjects have been out-and-out supporters of the Medical lady-movement. But the stone hits deeper and further than Dr. Keiller meant. Why should not we have ladies teaching all subjects in the faculty of arts, mathematics and botany, rhe-

toric and English history, moral philosophy and logic, natural philosophy and chemistry? These might all be taught by ladies to mixed classes extra-academically. All that is required sames to mixed casses extra-acutements, at that is required for success is, that the monopoly of teaching enjoyed by the Arts Professors should be broken up, and the Faculty placed in the same position in regard to graduation in Arts at the Medical Faculty is in regard to graduation in Medicine. A strong public opinion is growing up in favour of this change; when it is carried out, the lady Professors would have their own way, for they would have large classes, especially in philosophy and rhetoric.

GENERAL CORRESPONDENCE.

THE OPHTHALMOSCOPE AND THE MEDICAL SOCIETY OF LONDON,

LETTER PROM DR. WM. CHOLMELEY.

[To the Editor of the Medical Times and Gazette.] Sir. In the "list of subjects brought before the Medical Society of late years, and of the men who have brought and discussed them," which I introduced towards the end of my discussed them, which I introduced towards the end of my oration (page 549 of your last number), if find I have menutioned "Sansom on the Ophthalmoscope"; it should have been "Mr. Jaber Hogg on the Ophthalmoscope." The list is confessedly "very short and imperfect"; but the above is an error of com-mission, and an injustice to Mr. Jaber Hogg, who contributed an important and valuable paper on the ophthalmoscope so long ago as 1857; and I shall be much obliged by your allowing me to make this correction. I am, &c., Wm. Cholmeley.

May 16, 1871.

CHLORAL IN PUERPERAL CONVULSIONS. LETTER FROM MR. GEORGE F. WHIDBORNE.

[To the Editor of the Medical Times and Gazette.] Sir.-Allow me to give you a case of convulsions after labour, which came to my lot last week (having had three other cases

similar since Christmas), principally to show the good effect of hydrate of chloral in suppositories when rejected by the

mouth in every form.

Mrs. J. C., aged 40, in excellent health, but of a nervous temperament, soon after the birth of her seventh child suffered for many hours with severe and constant uterine pains, which induced convulsions more severe than I had seen in any other case. After all the usual remedies being made use of without any permanent effect, I had recourse to the chloral hydrate suppositories—R chloral hydrate 5j., saponis duri 9ij., mellis q.s. ut ft. suppositorium om.: horâ adhibend. After using two of the suppositorics, she had no more convulsions. She had four hours good sleep, from which she awoke convalencent.

I have thought this worth recording, as I have now tried it in three cases with the same success.

I am, &c., GEORGE F. WHIDBORNE, L.R.C.P., Late Phys.-Acc. to the Great Northern Hospital.

May 15.

CONVULSIONS. LETTER FROM DR. F. R. HOOO,

[To the Editor of the Medical Times and Gazette.] SIR,-Writing feelingly, how bitterly the middle-aged Practithe property of the property o still, there are prizes, and, in another world, where a warm corner is prepared for the bar, doubtless a bright spot will be reserved for us. However, to understand the convulsions of children alone travels over an immense field of inquiry in ana-tomy, physiology, and Medicine, amply repaid by satisfactory results. Including that rare and curious condition, celampsia nutans or salaam convulsions, soldiers' children appear specially prone to cerebral derangement. Quoting from poor Dr. Hil-lier's book, the causes of the greater frequency of convulsions in infancy are the active growth of the nervons system, and the consequent want of controlling power in the latter, so that reflex movements of all kinds are very frequently excessive from slight causes. Amougst others, the following circumstances appear to encourage these alarming symptoms—namely, parental history of phthisis, rheumatism, epilepsy, syphilis, or drink, oarly marriages, fright or mental emotion of mether drink, oarly marrages, right or mental emotion or mental during pregnancy or lactation, prolonged lactation on tes, delivery by forceps, improper food, worms, dentition, exposure, neglect, stimulants (such as gin), quaskery, fright, falls, blows, heat, cold (especially on board ship), damp, constipation, diar-trose, acleulus, suppression of entancous diseases, association of measles, hopping-cough, searlet fever or variela, noise and clatter in barracks, sound of music (especially drums), early

In suitable cases, the gum lancet, leeches, warm bath, cold douche, calomel, bromide of potassium, zinc, arsenic, quinine, double, casomer, oronand of possessions, see the horandy, sinapisms, emetics, turpentine enematas, bypodermic injections, etc., are all valuable remedies, but the majority equally injections, etc., are all valuable remedies, but the majority equally dangerous when injudiciously applied. There's the rub. In many instances, whilst forbidding the nursing mother tea, coffee, and sugar, it is of advantage to give her an aperient, followed by large doses of bromide of potassium at night, the child kept in the dark, his ears planged up with cotton wood. Should this letter, particularly the expressions of vain regret.

Should this letter, particularly the expressions or vain regret, catch the eye of any student, let him bear in mind that heaven helps those who help themselves, and, whilst envying the fame of Dr. Nebuchadnezzar Smith or the yellow chariot and flue of Dr. Neduchantesar Smith of the yellow chariot and mue income of Mr. Nepoleon Jones, anticipate their good fortune may be his. Working hard and living steadily, let his motto-ever be "Death or Savile-row," with a decided preference for the latter. I am, &c., F. R. Hood, M.D. Royal Artillery Barracks, Woolwich.

REPORTS OF SOCIETIES.

THE PATHOLOGICAL SOCIETY. TUESDAY, MAY 2, 1871.

JOHN GAY, F.R.C.S., in the Chair.

Dr. Murchison narrated the Post-mortem Appearances encoun-Dr. Muccuisor narrated the rost-mortem appearances encountered in an old man, aged 71, who had suffered from Parallysis Agitans for twelve years. He died of typhus. The palsy had gradually been increasing, until during the latter portion of the fover he was in a constant state of tremor. Dr. Cayley had coxamined the spinal cord, and reported on it. The external connective tissue was thickened and nuclear. It passed inwards into the substance of the cord, especially near the posterior roots of the nerves. No central canal was to be seen, but in its place a thick mass of cells, of various sizes and shapes, leucocytes, and granules. There were many patches of exuda-tion. These two series of changes seemed to be connected with the two diseases—the sclerosis from connective tissue with the palsy, and the condition of the central canal and the exudative patches with the fever. Dr. Murchison explained that there was much atrophy of brain with effusion of scrum, but this was common in typhus. Others had found similar lesions in paralysis agitans.

Dr. PAYNE inquired as to the condition of the central canal.

Gerlach had often found it crowded with cells.

Dr. CAYLEY said it was common to find cells crowding the

Dr. CAVLEY said it was common to find cells crowding the central canal of the cord. He could not say whether their presence was due to the mode of preparation. In this case the quantity was twice as great as usual.

Dr. DYCKINSON read an elaborate report on the Renal Calculi in the London Museums. The subject he considered of interest, especially with regard to their solubility or insolubility with rectain reagents taken by the stomach. Dr. Roberts, of Manchester, had shown that alkalies could dissolve urates, uric acid, and creation, while the other salesti was circulable. He had and cystine, whilst the other calculi were insoluble. He had tried to make out the proportion of renal calculi, as vesical gave no correct idea of original composition. There were ninety-one no correction of original composition. After were innery-one in all the thirteen museums examined; of these, fifty-two were simple in composition, thirty-nine compound. Of the compound twenty-two were composed of two ingredients, ten of three, and seven of four. Of the whole, urie acid constituted three, and seven of four. more than one-third, next in abundance came oxalates, next phosphate of which none consisted of pure phosphate of lime). Carbonate of lime was found in one instance, cystine in two, and xanthin in none. The compound calculi always had a nucleus of oxalates, of nric acid, or urates. Alkalies would act on one-third of all, whereas Dr. Bence Jones had asserted they would on 75 per cent., and Dr. Roberts on five-sixths of all.

- Dr. Muncuison asked if this basis was fair in practice. The rarer forms would be sure to be more frequently preserved than the more common.
- Dr. Dickinson thought the objection might apply to the cystine and carbonate of lime calculi, not to the others
- Mr. Arrorr desired to know how they could diagnose the nature of the calculi, as alkalies, in certain kinds, would do harm
- Dr. Dickryson thought this a question of practice to be dircussed elsewhere.
- Mr. Nunn said the majority of small calculi passed were renal, and in almost every instance these were of uric acid.
- Dr. THOMAS BALLARD had seen one calculus of carbonate of lime passed, and
- Mr. W. Apams had met with one of pure phosphate of lime in a case of mollities.
- Dr. Dickinson had not met one of pure phosphate of lime; all were mixed with the ammonia-magnesian phosphate.
- Dr. Muschison asked what evidences there were that calculi were ever dissolved in the body.
- Dr. Dickinson said it had been done outside the body.

Dr. Rispon Bennerr exhibited a specimen supposed to be Cancer of the Lung. The patient, a woman, aged 42, had had her breast removed, but the disease recurred. Her health began to fail, and she suffered much from cough and dyspuces. She died suddenly. The pleura was found unaffected, but the pericardium at certain spots was adherent. A cancerous growth infiltrated the lungs and certain parts of the heart's substance, and there were some nodules in the liver. The evidence as to the microscopic structure was incomplete. Mr. Maunder had seen a somewhat similar case three years ago,

Dr. PAYNE thought, as the breast was removed at St. Mary's he might be able to give some particulars as to its condition if he knew the patient's name. (Referred to Morbid Growth (Referred to Morbid Growth

Committee.)

Mr. JOHN GAY exhibited a specimen of Subclavio-Axillary Mr. JOHN UAY exhibited a specimen of Subclavio-Axillary Ancurism, which had been operated on. The patient was a man, aged 30, who had been a salor, and afterwards wreter in a brewery. In August last he complained of pain in both shoulders; this was supposed to be rheumatic, but turned on to be due to double ancurism. That on the right side was the to be due to double ancurism. That on the right side was the larger, and gave rise to great pain; that on the left was smaller, and produced neither bruit nor pain. He tried manipulation without success, so was compelled to cut down on the subclavian in the third part of its course, though he intended to tie in the second. There was some little difficulty in finding the vessel, but it was managed. In the evening the temperature of the whole side had fullen, but both sides equal on the third day. He did well till the fifteenth day, when, having been attacked with bronchitis, he died. The aneurism had corroded the ribs and clavicle on the right side, As to the aneurism itself, the result of the operation had been quite successful, producing complete obstruction and consolida-tion. The wound was nearly healed. The aorta was athero-matous, and in the heart were some curious old clots. The aneurism on the left side was fusiform.

Mr. MAUNDER referred to two recent instances in which he had performed this operation, in which no pulsation had been seen in the vessels. He would bring a case before the Society,

seen in the vessels. He would bring a case before the Society.

Mr. T. Savira asked the nature of the pyrexia on the seventh
day; what was the post-mortem condition of lung; and
whether there was any effiasion into the pleura—in whort, as to
signs of pyremia. He thought free exposure of a large artery
was enough to arrest its pulsatile action.

Mr. Gay said there was no shivering and no appearance of pysemia. The ligature had not come away. Drinking brandy, which his friends had brought him, might have had something pysemis. to do with his fatal attack.

to do with his fatal attack.

Dr. Cnozuzur said he had examined the patient carefully.

There was no idea of pyramia, only intense bronchitis.

Mr. Ansorr exhibited a specimen of Maligrant Ostcoid

Tumour of the Fibula from a man, aged 22. In Cotober, 1868,
there was some pain, and in January, 1869, there was swelling,
which rapidly increased. The right side of the right leg was
most affected. It was soft and nodulated. Amputation on the most affected. It was sort and nocunated. Ampairs on on the held thigh was performed, but another tumour appeared in the held more appeared, and all grew rapidly. He died exhausted. The original tumour was partly hard, partly soft; the hard part contained no true bony tissue. It consisted of a spindle-celled sarroum, developing into fibrous tissue, also of cells with nuclei, such as are seen in medullary cancer.

OBSTETRICAL SOCIETY OF LONDON. WEDNESDAY, MAY 3.

Dr. BRAXTON HICKS, F.R.S., President, in the Chair.

EDWARD MARTIN, Esq. (Weston-super-Marc), was elected a

Fellow of the Society

Mr. PEDLEB exhibited the Pelvis of a Woman, the subject of Mollities Ossium. She was an inmate of the West Riding Asylum for four years, and died there last January. The pelvis was much distorted, and its diameters greatly contracted. A chemical analysis of the bone proved it to consist of—

. 24.74 Water Fatty and oily matters . 26.49 True bone . 48.77

The inorganic matter was present in exceedingly small quanti-

ties, forming only 23.71 per cent, of the true bone.

Dr. PROTREBOE SMITH exhibited the Uterus and its appendages removed from a patient upon whom he had performed ovariotomy. The pedicle and the uterus were free from inflammation, yet the patient died from acute peritonitis of the small intestines, which were found inflated, inflamed, and measures, which were round inflated, inflatince, and covered with recent lymph. In explanation of this anomalous condition he said that, after tabulating a large number of cases from the published records of Mr. Spencer Wells and others, and on taking a statistical view of such as had terminated unflatent below the said of the s favourably, he had found a large majority had succumbed in consequence of inflammation resulting in the formation of lymph or the effusion of scrum or blood into the peritoneal cavity. He had also remarked, in a large number of cases cavity. He had also remarked, in a large number to sees operated upon, vomiting of fluid in excess of that taken, and, if protracted, becoming gramous; or that hemophysis, hematemesis, and bloody motions, hematuria, and albuminuria not unfrequently took place. Such morbid conditions were, he thought, due, in long-standing cases especially, to an effort to thought, due, in tong-standing cases especially, to an error to relieve the vascular system, which in the progress of the effusion into the cyst, which was audienly arrested by ovariotomy. On these grounds he begged to call attention to a previous treatment, which, if judiciously practised, he believed would tend materially to obviate the fatal issue of ovariotomy-viz., bloodletting-first, as a means of renoving cysto-peritonitis when diagnosed before the operation; and, secondly, as a prophylactic measure to prevent its occurrence afterwards.

Mr. Squire said that precedent peritonitis need not prevent good recovery after the removal of an ovarian tumour, as shown in a case lately under his care. The patient had vomited blood on more than one occasion, and had also passed blood by the bowel before the operation. He considered that dependence upon the effect of bloodletting before an operation was at least hazardous.

Dr. Wiltshier thought that bleeding might, in certain selected cases, prove beneficial, and related a case of his own,

which appeared confirmatory of this view.

Dr. Barynsexhibited Mr. De Berdt Hovell's Uterine Truss for Dr. Danking chimbled air, De Derdit Loveu & Cerine i russ for preventing and arresting post-partim hemorrhage. It has a spring pressing, with a force of about seven pounds, a pad down upon the uterus. It is admirably adapted to support the uterus, and to relieve the Practitioner from the fatigue of grasp-

ing it. It stimulates to contraction by sustained elastic pressure.

Dr. Barnes communicated, for Mr. Porter, of Lindfield, the particulars of a case in which the feetus died at the third month of gestation, and was expelled piecemeal, but the placenta was retained to about the full term, and was then expelled undecom-

The PRESIDENT communicated, for Mr. H. Gibbons, of Wolverhampton, a case of Caesarian Section. The patient, aged 22, was a dwarf, three feet ten inches high. An incision, six inches long, was made into the uterus, and the fœtus extracted. placenta was found attached to the posterior wall, and was peeled off without much bleeding. The uterus contracted placenta was found strached to the posterior wall, and was peeled off without much bleeding. The uterus contracted rapidly under the eye, and its wound was thereby closed. Uncourtedlable vomiting commenced in about an hour, and continued with exarcely any intermission till she sank, forty hours after the operation. There was no extravassation into the pertioneum, nor any peritonitis. The pelvis was exhibited to the Society. The child lived nine days.

A case was then read, reported by Dr. Routh, in which a child, born in the twenty-second week of gestation, lived

eighteen days.

Dr. Wiltshirk read a paper on Tetanus after Abortion.

After narrating two cases, the author referred to the great mental depression under which the patients laboured, owing to trouble and anguish of mind, and suggested that although peripheral physical changes were justly regarded as most inportant factors in the production of tetanus, functional disturbances of the cerebro-spiual centre should be studied in conjunction with them. Illustrations were given of the disease termed Tetany, and reference was made to the recent pathological researches of Clifford Allbutt, Lockhart Clarke, and The question of treatment was then briefly Dickinson. discussed.

Dr. PLAYFAIR thought the rarity of tetanus after labour and abortion was chiefly a climatic question, and he doubted its being proportionately more rare than after Surgical operations. In countries in which tetanus was common, it was far from being a rare event after labour, and he had seen many cases at

Dr. Meadows then read a paper on Pelvie Hæmatocele; and, On the motion of Dr. Barnes, seconded by Dr. Phillips, the discussion thereon was postponed to the next meeting.

MEDICAL SOCIETY OF LONDON. MONDAY, MARCH 27.

DR. ANDREW CLARK, President, in the Chair.

THE PRESIDENT narrated the following cases to illustrate some points in the treatment of Perityphlitis :- Case I was given points in the treatment of rentyphilits:—Lase i was give to show the baleful influence of purgatives. The patient was a young lady aged 24, who three nights before the author saw her had been seized with pain in the right side vomiting, and general disturbance of the system. Powerful vomating, and general disturbance of the system. Fowering purgatives had been given. Dr. Clark recommended that the lowels should be locked with opium, the patient kept quiet, and local sedatives applied freely. The Medical man who had been in attendance ou the case took a different view, thinking that the symptoms were still due to an accumulation of faces. Dr. Clark retired from the case, and another Medical man was called in, who agreed with the gentleman already in attendance; stronger purgatives were therefore ordered. The patient becoming worse under this treatment, Dr. Clark was again called in, but could not attend. His colleague, Mr. called in, but could not attend. His colleague, and Adams, attended, and, fluding a swelling pointing, made at incision, when a quantity of fetid pus escaped. Unfortunately the patient died in a few days. At the pointment on frecal accumulation was found, but the mercan membrane of the execum was found ulcerated. Case 2 is given to show that serious consequences may ensue from not giving purgatives. The patient was an Eton boy, who was sadded seized with pain and swelling in the right line region; ferrillthe temperature 103°, pulse quick, vomiting also. Dr. Clark's opinion was, that in acute cases vomiting occurred, but in chronic cases constipation might come on gradually without vomiting; in this case there was vomiting and constipation The bowels were kept quiet by means of opiates, leeches were applied to the side of the abdomen, the administration of fool by the mouth was suspended, nutritive enemata being given by the howels. The case progressed very well; the romiting coased, and the pain subsided. His friends being anxious to have him with them, he was removed to London. Soen after his arrival he was seized with a sudden pain in the old stat-tion, and a large swelling rapidly formed, which on examination was found to be situated in front of the original tumow-This appeared to the author to be due, not to a relapse, but to an accumulation of faces; he therefore strongly recommended that the bowels should be cleared by an enema of caster of This advice was opposed by his Surgical colleague, who thought This advice was opposed by his Surgical colleague, who thought it would be unsafe. The advice of the senior was there. However, as the pain increased and the pulse ran up, a sperient was again urged. Castor oil was administered the mouth. The patient being in bed, the lower part the body and hips were raised, and over a quarter was thrown up the series of the seri customarged, the swelling subsided, and the boy soon recered.

At Eton a year seldom passes without a recurrence of the cases, which may be due to over-exercise. The third care reasonabled the preceding in its symptoms; the abdomen was lecelled, and the patient was fed by the bowel; in thre works the pulse and temperature were normal. The area then question whether the boy might be removed, and as Jht. Ellison recorned that these was artistive resist more tredit. Ellison reported that there was neither pain nor tenderness for a week, the boy was removed to London; yet the day after he suffered from a relapse, having pain and tender-ness in the right like region, sickness, and a high temperature. The ilian swelling was still there. This case seems to teach us that a patient ought not to be moved until the pulse and temperature have been normal and settled for some time.

In the discussion that followed, Dr. Habershon said that the paper was very interesting and useful, and if the treatment was borne out in practice many valuable lives might be saved. The first was a difficult and unusual case; suppuration had taken place behind the crecum. In the other cases a considerable amount of obstruction was present. These cases often commenced with inflammation of the mucous membrane of commenced with inflammation of the mucous membrane of the esecum; the faces accumulated, and the various symptoms followed. He strongly advised soothing remedies. The boys at Eton, he thought, having command of plenty of money, often ate food not suited to them, and among other things more oranges than were proper. This gave rise to the disease. He advised the avoidance of purgatives, and the use of warm applications, teches, and schultves of all kinds, the patient being kept quiet and feel by encembers. He thought this combine the company of the strength of the company of the strength of the streng

Dr. Snows thought that if a boy had taken a piece of indiestible food, which had arrived at the orecum and set up inflammation there, a dose of castor oil and laudanum given

early might remove the exciting cause.

Mr. MAUNDER said that some years ago he was called to tap an "ovarian cyst," but on coming to examine the case he found it was one of perityphlitis; all the symptoms that the President had mentioned were present. He thought that pus reascent and methodec were present. In changing time passwars present, but desisted from any Surgical interference, and in a short time it made its escape at the umbilicus, and the patient recovered. In a second case there were present pain, constipation, vomiting, and an emphysematous swelling, giving a tympanitic note; the fluctuation extended below Poupart's ligament, and was there lessened, but the lower limb became emphysematous, and the patient died. He thought Surgical anterference was indicated in many of these cases

Dr. ROGERS had seen a case of perityphlitis, in which the swelling, being tympanitic, was not interfered with, although it was thought that pus was present. In two days pus was discharged with freeal matter, showing that the escum had ulcerated. The patient recovered without a fistula.

The President then narrated a case where a large accumulation of pus took place. Much tympanitis was present. An opening was made, and much fetid pus discharged. The patient died. The post-mortem showed that the matter did not communicate with the bowel.

Dr. Rourn said that one remedy that he had found of the greatest possible value had not been mentioned; that was belladouna. He thought no remedy in the world was so effective. It was a good practice to smear the abdomen with extract

of belladonna.

Mr. JOHN DANIEL HILL communicated a case of Resection of the Elbow-joint, showing the amount of movement attain-able after that operation. The wound healed in five weeks, and in three months good motion was restored. The chief points that Mr. Hill laid stress upon were—(1), the long straight incision at the back of the joint; (2), the preservation of the attachments of the nuscles, especially the brachialis anticus and biceps; (3), the application of a chain-saw, cutting from within outwards, to avoid manipulation of the soft parts; (4), the separation of the sawn surfaces by slight extension; (5), the retention of the limb upon interrupted rectangular (5), the retention of the mmo upon interrupted revenues asplints, so as to provide for the bones being kept steadily open during the healing process. Mr. Hill stated that the patient had almost complete control over the brachial muscles, the power of flexion and extension being very good, and pronation and supination nearly, if not quite, equal to the corresponding limb. In testing his muscular power it was found that he could carry a bucket of water, and in his trade as a carpenter could use a saw, a hammer, and gimlet; he also could write a good hand. The pathological specimen and cast of the case was also shown.

Dr. Sixus read a case of Epilepsy following the passage of a pin through the intestines.

A POPULAR lecture on the anatomy of the human frame was delivered last Sunday morning by a Surgical student, on the ground in the rear of the Prince Consort Memorial, Hyde-park. The subject was practically illustrated with the help of a very nearly complete skeleton.

OBITUARY.

DR. A. D. ANDERSON.

DR. A. D. ANDERSON.

The following notice of this respected Physician appeared in the Glasgow Daily Herald of Tuesday, May 16:—"In our obituary of yesterday we chronicled the death of Dr. A. D. outling of yearday we annote the cases of Mr. A. Anderson, one of the oldest and most honoured of our Glasgow Physicians. The deceased gentleman was the son of Mr. Andrew Anderson, merchant, Greenock, and was born in that town in 1794. He was a nephew of the late Professor Anderson that the case of the late Professor Anderson merchants. son, founder of the Andersonian University in this city. Having passed through the usual course of Professional Having passed through the usual course of reviewsonal studies in Glasgow, Edinburgh, and London, he was admitted a member of the London College of Surgeons in 1816, graduated in Edinburgh University in 1819, became a Fellow of the Faculty of Physicians and Surgeons of a Fellow of the Faculty of Physicians and Surgeons of Glasqow in 1822, and received the Honorary Fellowship of the Royal College of Surgeons of England in 1844. At the age of 19 he entered the Medical Service of the army as Assistant-Surgeon, being attached to the 19th Regiment, and remained in the Service six years, part of which time be spent in Canada. About the year 1820 he settled to practice in Glasgow, and in 1829 married a daughter of Mr. Thomas McCall, of Craighead, Lanarkshire, who, with four sons and two daughters, survive him. One of his sons, Dr. McCall Anderson, having adopted his father's Profession, is now Professor of the Practico of Medicine in the Andersonian University.

"During Dr. Anderson's long career as a Practitioner in this city he gave many proofs of his skill, ardour, and devotedness in his Profession, and he received not a few tokens that his services were appreciated by his Professional brethren and the public. In 1823 he was elected Surgeon to the Royal Infirmary, and in 1837 he was appointed Physician to the same institution. He was also Physician to the Institution for the Deaf and Dumb. He was the author of an interesting paper on the treatment of burns by cotton, an application of this agent which has since been extended to many superficial injuries. He also wrote useful 'Reports on Surgical Cases,' and other papers on Professional topics. In 1862 he was elected President of the Faculty of Physicians and Surgeons, and held the office for three years. During his whole career he took a warm interest in the affairs of the Faculty, and that corporation last year evinced their appreciation of his services by requesting him to sit for his portrait, which is lung in the Faculty Hall. He took an active interest in the management of several public institutions, especially the Andersonian University. Anderson enjoyed an extensive share of what is called the 'best practice,' and was a diligent student both at the bedside and in his study. He was endowed with a calm, reflective judgment, was actuated throughout life by the most delicate sense of honour, and always showed himself acutely sensitive in regard to the feelings of others. He was a member of the Church of Scotland; in his religious opinions catholic and liberal; in his public and private life kind, considerate; in every sense of the word charitable—a true example of a

every sense of the word charitanie—a true examine of a Christian gentleman."

Dr. Anderson's funeral took place on the 17th, and, at the request of the Fellows of the Faculty of Physicians and Surgeons of Glasgow, was a public one, at the Faculty Hall.

JAMES HENRY, ESQ., M.D., M BURY-ST.-EDMUNDS. M.R.C.S., OF

It is with feelings of the deepest regret, and sympathy with his bereaved family, that we record the unexpected and some-what sudden death of Dr. Henry, Physician to the Suffolk

General Hospital.

Dr. Henry, after a prosperous Professional career in Dublin, where he was widely known and highly respected, and afterwards in Cheshire and Liverpool, finally settled in Bury-St .-Edmunds about three years since, where, in that singularly short space of time, he succeeded in attaining not only an immenso practice, but also in winning golden opinions from a numerous circle of patients and friends. His geniality, good nature, and open-heartedness endeared him to all with whom he came in contact; whilst his gentleness, no less than his farfamed Professional skill, made his patients regard him with no ordinary feelings of love, esteem, and respect.

His death cast a deep and pervading gloom upon the town where he practised and its neighbourhood, and the general feeling which prevailed found open expression in the opinion repeated on all sides, that his lamented death was indeed a

" public lors.

Dr. Henry's disease was, we understand, a peculiar form of latent gout, which, for the first and only time, developed itself during his last fatal illness, and, attacking his heart, defied all the skill and efforts of his Medical advisers and friends. He died on the morning of April 24, shortly after two o'clock. aged 60 years.

aged 60 years.
It is much to be regretted that his vast stores of practical experience, accumulated during an increasantly active and energetic life, have found no place in the Medical literature of the country, but his extensive practice, the amount of time he personally devoted to his patients at the bedside, no less than his natural modesty, prevented the possibility of his handing down his name to posterity as an author in a way worthy his

high Professional reputation and success as a Physician.

JAMES GRAHAM HILDIGE, ESQ., F.R.C.S.I., M.R.I.A. We regret to announce the sudden demise of the above eminent we regret to announce the sudden demise of the above eminent coulist, which took place at his residence, Upper Merrion-street, Dublin, on the morning of Sunday, the 14th inst. Mr. Hildige was a Member of the Royal College of Surgeons England, a Fellow of the Royal College of Surgeons Ireland, a Licentiate of the King and Queen's College of Physicians Ireland, and a Member of the Royal Irish Academy. He was also Surgeon to the National Eye and Ear Hospital, and formerly Lecturer to the National Eye and Ear Hospital, and formerly Lecturer on Ophthalmic Surgery in the Carmichael School of Medicine, Dublin. Among his writings we may mention his work entitled "Medical Sketches in Anstria, Prussia, and Italy, with Remarks on the Roman Campagna," and a valuable paper on "Yellow Fever." He also contributed articles on Ophthalmic and Aural Surgery to the leading Medical journals of this and the sister country.

MEDICAL NEWS.

ROYAL COLLEGE OF SURGEONS OF ENGLAND .- The following gentlemen having undergone the necessary examinations for the diploma, were admitted Members of the College at a meeting of the Court of Examiners on the 16th inst. wiz. :---

Alkinson, Alfred James, L.R.C.P. Edin., and L.S.A., Kew-green, of University College.

Bovill, Elward, James-street, Buckingham-gate, of Guy's Hospital.

Cottle, Ernest Wyndham, B.A. Oxon., Southampton, of St. George's Hospital.

Cottle, Emerck Wyndham, B.A. Coom, Southampton, of St. George's Hospital.

— St. St. Free, Corwald, G. Charing-room Hompital.

Furner, Willoughby, Ringhton, of St. Bartholomew's Hospital.

Furner, Willoughby, Ringhton, of St. Bartholomew's Hospital.

Horoford, Joseph Alphoman, Paranae, of University College.

Jones, Milliam Murray, H.A. Contab, "Wajarasic, of King's College.

Johason, William Murray, H.A. Contab, "Wajarasic, of King's College.

Jones, Hugh Thomas, Geormen, Anglewes, of the Duklin School.

King, Aloysiau Joseph, Bath, of the Partical School.

Korrist, Richard Thomas, Rochelale, of the Manchester School.

Kewangton, Herbert Firansia Hagas, Techeburd, of University College.

Newmardon, Herbert Firansia Hagas, Techeburd, of University College.

Num, Philip William Gowlett, Cavershan-road, N.W., of St. Bartholomew's Horgett, St. L. R.C.P. and L.M. Ellin, Melton Mowlawy, of University College.

Smith, George Augustus Cooper Vernon, Puddington, of St. Mary's Hosthory, College, Lewis, L.R.C.P. and L.M. Ellin, L.S.A. Lond, Walsell, of the Birmingham School.

Waldo, Henry, M.B. Ader, Cultica, Somerst, of the Biristol School.

The following gentlemen were admitted Members on the

The following gentlemen were admitted Members on the

17th inst., viz. :-

17th inst., viz.:—
Alian, Patric Joseph, L.R.C.P. Ire, Mullingar, co. Westmeath, of the Dublin School.
Baker, Walley L. S.A., Cwarley, Stoner, of Gry's Hospital.
Baker, Walley L. S.A., Cwarley, Stoner, of Gry's Hospital.
Cury, Robert, B.A. Caniah, Carlisle, of St. Thomas's Hospital.
Cury, Robert, B.A. Caniah, Carlisle, of St. Thomas's Hospital.
Cury, Robert, B.A. Caniah, Carlisle, of St. Thomas's Hospital.
Family, St. Carlisle, C. S. Charley, C. S. Carlisle, and E. S.A. Lond,
Pawat, John Henry, Upper Norwood, of Guy's Hospital.
Fewat, John Miford, L. S.A., Saxmanhiam, of University College.
Ling, John Miford, L. S.A., Saxmanhiam, of University College.
Ling, John Miford, L. S.A., Saxmanhiam, of University College.
Mayer, William Levin, Higheste, of the London Hospital.
Mayer, William Levin, Higheste, of the London Hospital.
Simon, Arthur Charles, L. S.A., Jessey, of St. Bartholmew's Hospital.
Simon, Arthur Charles, L. S.A., Jessey, of St. Bartholmew's Hospital.
Simon, Arthur Charles, L. S.A., Jessey, of St. Bartholmew's Hospital.
Sevens, Mordant Augustus de Brouquena Capel, M.D. Fhilad, Paris,
Whistler, William McNeill, M.D., Penneylvania, Brook-street, Grovenor-guare.

Seventeen candidates out of the fifty-four examined having failed to acquit themselves to the satisfaction of the Court of Examiners, were referred to their Hospital studies for six months. For the Fellowship of the College, it is stated that the unprecedented number of seventy-one will this day (Friday) commence their written examination.

APOTHECARIES' HALL, - The following gentlemen assed their Examination in the Science and Fractice of Medicine, and received Certificates to practise, on Thursday, May 11, 1871 :-

1:—. Currie, George, Madras Presidency, India. Iredell, Charles I. M., Cheltenham. Moore, Samuel William, Kennington. Stuart, Henry Ward, Woolwich. Thorpe, Lewis, Walsall.

The following gentlemen also on the same day passed their first Professional examination :-

Brittin, F. G. M., London Hospital. Willis, George, St. Bartholomew's Hospital.

APPOINTMENTS.

 The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

Adams, J., F.R.C.S.E.—Clinical Assistant at the Royal London Ophthalmic Hospital, Moorfields.

Barrer, Mr. F. J., Major Associate of the Pharmaceutical Society.

Dispenser at the South Staffordshire Hospital, size Mr. T. Weaver,

BATERAN, Mr. L. P.—Resident Medical and Surgical Assistant at the General Hospital, Birmingham. BUDWORTH, Mr. W. S .- Dispenser to the Bolton Infirmary, vio Mr. S.

Kenyon, resurned Renyon, resugned.

CALEFFRANTES, J. A., M.B.C.S. Eng., has been appointed House-Surgen
and Secretary to the Scathcoungh Dispensary and Acidemi Hospital, rewas not a candidate, Mr. George Millson, L.B.C.P. Lend., was eited:
but he was obliged to decline the appointment, having been appointed
Assistant Medical Officer to the Middlesex Lunantic Arylum, Ober

Hatch.

COWELL, G., F.R.C.S.E.—Clinical Assistant at the Royal London
Ophthalmic Hospital.

Casway, J. J., M., C.M.—Assistant-Physician to the Rotunda Lying-in
Hospital, Dublin.

Davis, Mr. H. W.—House-Surgeon to the Western Ophthalmic Hospital, Marylebone-road, vice Mr. W. T. Drew, M.B.C.S. E., resigned. Hill, Mr. Alfrand. —Dental Surgeon to the Dental Hospital of London,

PAYY, P. W., M.D. Lond., F.R.C.P. Lond., F.R.S.-Physician to Guy's pital. Pyr.-Sairu, P. H., B.A. Lond., M.D., M.B., etc.—Assistant-Physician to Guy's Hospital.

Roe, William, M.D., F.R.C.S.I., etc.—Examiner on Midwifery and Diseases of Women and Children to the Royal College of Surgeons in Diseases of Ireland.

THORSON, J. ROBERTS, M.D. Edin., M.R.C.P. Lond.—Physician to the Bournemouth Dispensary.

MILITARY APPOINTMENTS.

57H DEAGOON GUARDS.—Staff Assistant-Surgreen John Wickliffe Jones, to be Assistant-Surgreen, vice Edward Louis McSheehy, M.D., promoted on

Hussaus,—Staff Surgeon Maximilian Grant, M.D., to be Surgeon, ice Surgeon-Major Henry Kendall, M.D., who exchanges. 7TH HUSSARS,-

FOR A STILLERY—Assistant-Surgeon William Graves, from 65th Foot-to be Assistant-Surgeon, vice Alexander Prederick Hradehaw, premoted on the Staff; Staff Assistant-Surgeon. Denis Joseph Canny, to be Assistant-Surgeon, vice Arthur Croker, appointed to the Staff. 1sr Foor.—Staff Assistant-Surgeon Robert Hyde, to be Assistant-Surgeon, vice Matthew Lawrence White, who exchanges.

17TH FOOT.—Staff Assistant-Surgeon Charles Haines, to be Assistant-Surgeon, vice John Henry Halked Tothill, who exchanges.

Sturpco., réo John Henry Ilalked Tobhil, who exchanges.

60rn Foort-Baff Assistant-Surpcon John Williams, to be Assistation of Sort Foort-Baff Assistant-Surpcon John Williams, to be Assistation of Control of the Popular Studies o

DIDTHS

Dixon.—On May 10, at 108, Grange-road, Bermondsey, the wife of John Dixon, M.D., of a sen.

- Falls.—On May 11, at Bournemouth, the wife of William Stewart Fal's, M.D., of a daughter.
- Gairritus .- On the 11th inst., at Swanses, the wife of T. D. Griffiths,

Harrison.—On May 14, at 38, Ablewell-street, Walsall, the wife of A. J. Harrison, M.B. Lond., of a daughter.

HUNTER.—On May 14, at Stobb House, county of Durham, the wife of Dr. John Gilland Hunter, of a son. Kixa .- On May 14, at 159, Camberwell-road, the wife of T. W. King, M.D.,

or a daugner.

Struenson.—On May 15, at 21, Caversham-road, N.W., the wife of Thomas Stevenson, M.D., M.R.C.P., of *x* daughter.

Way.—On May 5, the wife of Frederick Walter Way, M.R.C.S., of St. George's square, Portson, of a daughter,

MARRIAGES.

Canx—Ixxes.—On May 11, at the parish church of 8t. Clement's Danes, John Cran, M.D., of Turriff, Aberdeenshire, to Caroline, eldest daughter of George Rose Innes, Eq., solicitor, of 17, Norfolk-street, Strand.

Frolliott-Allex.—On March 28, at Umballa, Bengal, Nicholas Ffolliott, Naff Surgeon, to Frances Hastings, daughter of the Rev. J. H. Allen, Cloncara, Limerick.

Frederick Kelly, F.R.C.S.L., late of Salisbury-square, Fleet-street, to Emily Ann Middleton, only daughter of the late Mr. Middleton, of

STEFFIENDS.—Evans.—On May 11, at the parish church of St. Mary, St. Noot's, Huntingdonshire, William Stephenson, Surgeon, of Beverley, to Harriet Emma, youngest daughter of John Jewel Evans, Esq., of

ANORRSON, ALEXANDER DUNLOP, M.D., F.R.C.S., at 159, St. Vincent-street, Glasgow, on May 13, aged 77.

aged 28.

MACPHERSON.—By the Indian mail is announced the death of Assistant-Surgeon John Macpherson, M.D., 38th Madras Native Infantry. NETON, ESTREE, the wife of J. H. Norton, M.D., at Nautglass, Llanelly, on May 14, aged 51.

PRESECT, CITADINI, daughter of the late Mr. Perfect, Surgeon, of West Malling, Keut, on May 12, suddenly, aged 76. PULLAED, Dr. JOHN HENNY, at George-town, Demerara, British Guiana, on April 29, in the 51st year of his age.

In the following list the nature-wording vecant, the qualifications required in the Candidate, the preven to whom application should be made, and the day of election (as far as known) are stated in succession. CRASTRO-CROSS HOSPITAL WARY STRAND, W.C.—Register; must be legally qualified to practise, and be registered. Applications and testimonials to the Secretary, on or before May 31.

CHETARIAN GENERAL HORITAL AND DIFFENSARY.—Resident Surgeon to the Branch Dispensary. Candidates must have both Medical and Surgical qualifications, and be registered, Applications and testimonials to Mr. D. Hartley, on or before May 20.

ω air. D. Instucy, on or Detere May 29.
(ROBLING-VEW-MEDICES DIFFERMANT.—House-Surgeon; must have both Medical and Surgical qualifications, and be registered. Applications and testimonials to Adam Fox, Eq., Hon. Sec., 64, Ann-street, Manchester, on or before May 37.

wasserr, on or certor MEF 27.

CITY OF LONDON LYING-IN HOSPITAL, CITY-BOAD, E.C.—Surgeon-Accoucheur. Applications and testimonials to Mr. J. Owthwalte, Secretary, on or before May 21. The election will take place on the same day, at 3.30 p.m.

CURRELIAND INTIGMARY.—House Surgeon; must be legally qualified. Applications and testimonials to Mr. John Laver, Secretary, Carlisle, on or before May 27. Election on June 7.

DUNDER ROYAL INFIRMARY.—House-Surgeon; must be qualified to practise. Applications and testimonials to the Secretary, Mr. D. Gordon Stewart, 18, Mcadowside, Dundee, on or before May 31.

Kast Ribno Lwattc Astruck.—Medical Superintendent; must be duly qualified and registered. Applications and testimonals, together with a copy of the last Report of the Commusioners in Lanear, as to the state of the Asylum with which the applicant is now connected, to Mr. F. Hobson, Beruelty, Yorkshire, on or before June 1.

son, Beverley, Yorkshire, on o'r before June 1.

HERJEY USDA,—Medical Officer for the Nettlebel District; candidates must possess the qualifications prescribed by the General Orders of the Medical Conference of the Conference of

Election on the 19th.

Norman Care University Addied Officer for the district congreting to Morman Care University Addied Officer for the district Canadidate must have the qualifications prescribed by the General Urders of the Poor-law Board. Applications and tectimonials to Mr. If. Sillee, Clerk to the Guardians, on or before May 24. The duties will commence on June 34. Resident Medical Officer; must have both Medical and Surpriced guardianceations, and he registered. Applications and testimonials to the Secretary, on or before May 34. Election on June 1.

ROYAL GERERAL DISPERSARY, 25, BARTHOLOMEW-CLOSE, E.C.—Resident Medical Officer; must be duly quadrified and registered. Candidates to attend at the meeting of the Merical Subcommittee on May 26, at 2 o'clock p.m. Further particulars can be obtained of the Secretary, Mr. E. T. Rowsell, 60, Grace-teaching described to the Secretary Mr. E. T. Rowsell, 60, Grace-teaching described to the Secretary and Company of the Company of

mr. E. F. HOWSELL OD, O'RECCEMEND-STREEL E.C.

ROYAL KERT DISPERSANT, Resident McLical Officer; must have both
McLical and Surpical qualifications, and be registered. Applications
and opies of testimonials to W. Rriskow, Esq., 78, London-street, Greenwith, on or before May 20. Election on June 2

8. R. Barrilou or lossver stay re. Execution of sure of Ser. Barrilou or Ser. Barrilou et al. Diseases. Applicacations and testimonials to Mr. II. Cross, at the Hospital, on or before June 9. Any further information may be obtained of Mr. Morrant Baker, Hon. Sec. of the Medical School.

Baker, Hon, Nec, of the Medical School.

ALTOD AND PERSISTAND RAYS. HOSPITAL AND DISPERSARY.—HOSPITATION FOR PERSISTAND AND PERSISTAND PERSISTAND AND PERSISTAND AND PERSISTAND PERSISTAND PERSISTAND PERSISTAND PERSISTAND PERSISTAND PERSISTAND PERSISTAND PERSISTA

SUNDERLAND INFIEMARY.—Assistant House-Surgeon; must have both Medical and Surgical qualifications. Applications and testimonials to the House-Surgeon, on or before May 25.

Windson Royal Infirmany.—House-Surgeon; must be legally qualified.
Applications and testimonials to Mr. O. Cartland, Secretary, on or before

CHANGE OF NAME.

I, Daniel George Astle, of Newsattle-under-Lyne, Surgeon, do hereby give notice that, on and after this content of the property have been as the property have been as the property have this day cornival of a doed in the Curr of Chancery), and that henceforth I shall now the name and style of Daniel George Astley.—Dated this 4th day of May, 18T.—Datald George Astley.—

POOR-LAW MEDICAL SERVICE.

• • The area of each district is stated in acres. The population is computed according to the census of 1861. RESIGNATION.

Worksop Union.—Mr. A. J. F. Russell has resigned the Whitwell District; area 9004; population 2222; salary £20 per annum.

APPOINTMENTS.

Aysgarth Union.—Richard L. Bouth, L.H.C.P. Edin., to the Aysgarth District.

District.

Crickloid, and Weston Bassett Union.—Noah B. Langley, M.R.C.S.,
L.S.A., to the Third District.

LISA., to the Third District.

Heriley Giess.—Higheste H. Fullips, M.B. Univ. Dub., L.R.C.S. Ire., to
Keighten Caion.—Henry O. Brown, M.R.C.S. Eng., L.S.A., to the
Brampton Brian District.

Nutsea Albel Disso.—The Markings, M.R.C.S. Eng., L.S.A., to the
Grigmmonth District.

Nutsea Albel Disso.—The United M.D. St. And. M.R.C.S. Eng., L.S.A., to the
Respondent Rate of the Computer State of the Com

Neuton About Union.—Will. H. Aufmings, M.L.C.S. Eng., L.S.A., to the Fourth District.

O'makirk Union.—Caleb S. Hilton, M.D. St. And., M.R.C.S. Eng., L.S.A., to the Fourth District.

Wished Union.—Arthur B. Ewen, M.R.C.S. Eng., L.S.A., to the Tid
St. Glee's District.

University of Glasgow .- Degrees in Medicine. -Mr. Allan Walker, Scotland, was admitted, on the 11th inst., to the degrees of M.B. and C.M., and Mr. John Murray, Scot-

land, to the degree of M.B.

PROFESSIONAL EXAMINATIONS.—The following were the questions in Surgical Anatomy and the Principles and Practice of Surgery submitted to the candidates for the diploma of Membership of the Royal College of Surgeons on the 12th or memorranp of the Koyai Conlege of Surgeons on the 12th inst.:—1. Describe the inguinal canal, its boundaries and rela-tions to other structures, including hernial protrusions. 2. What are the causes and the immediate and remote consequences of sudden extravasation of urine? What treatment would you adopt in such a case? 3. Give the pathology of non-traumatic aneurism from its commencement to its termination. 4. Deaneurism from its commencement to its termination. 4. Describe the operation known as Chopart's, and the relative position of the various parts cut through in this amputation. 5. How are scirrhus and medullary cancer distinguished in the living subject? What organs does each form specially affect, and at what ages usually do they respectively occur? 6. By what form of accident is dislocation of the head of the femur backwards usually caused ? Describe the two dislocations in this direction, the deformity existing in each, and the proper method of reducing them. The following were the questions on the Principles and Practice of Medicine, viz.:—1. Describe a case of tubercular meningitis in a child from the appearance of premonitory symptoms to the termination in death. 2. Give the symptoms of diabetes mellitus, with the methods of analysing the urine; also the treatment by medicines and diet. 3. Write a the urne; has the treatment by measures and use. S. Writes prescription in full for hemoptysis, gastrodynia, and dysentery; also a prescription for an aperient draught and a sleeping draught. There were fifty-four candidates, of which number five were rejected on the first day, and twelve on the second.

Association of Medical Officers of Health. The next meeting, being the last of the session, will be held at the Scottish Corporation Hall, Crane-court, Fleet-street, on Saturday, May 20, at 7.30 p.m. Dr. Humphrey Sandwith, C.B., will be balloted for as an associated member. Dr. C.B., will be considered for as an associated member. 117.
Ballard will read a short paper on "The Interment of Still-born Children." Dr. Letheby will read a paper on "The Quality of the Water-supply of some of the Large Cities and Towns of England in relation to their Sanitary Condition."

WEST KENT MEDICO-CHIRURGICAL SOCIETY .- At WEST AENT AEDICO-UHIRUSGICAL SOCIENT.—At a meeting of this Society, held on Friday, May 12, 1871, Dr. Clapton, F.R.C.P., President, in the chair, Dr. Shepherd, Or Victoria-park Hospital, read a paper on "Scarlet Fever." Dr. Victoria-park Hospital, read a paper on "Scarlet Fever." Dr. Victoria-park Hospital, read a paper on "Scarlet Fever." Dr. William of the Company of the Compa

was manimously elected an honorary member.

COLLEGIATE PRIZES .- The following are the subjects for the prizes offered by the Royal College of Surgeons, viz.:

-For the Collegiate Triennial Prize, consisting of the John Hunter Medal executed in gold, to the value of fifty guineas, or, at the option of the successful author of the dissertation, of the said Medal executed in bronze, with an honorarium of The subject of this prize is-"The Structure and 250. The subject of this prize is—the Carachan Functions of the Medulla Oblongata, including the Connexions of the Central Nerve-roots." The dissertation may be illustrated by preparations and drawings. The Jacksonian Prize, tracts of preparations and drawings. In Jacksonian First, between £10 and £11, received from the trust. The subject for the prize for the present year, £171, is—"The Treatment of the prize for the present year, £1871, is—"The Hemor-dage Tenanry and Secondary." The subject for the prize for the adding year, £1872, is—"The Diseases of the Nose, including those of the Sinuses connected with it, and their Treatment." The dissertation may be illustrated by drawings, preparations, etc.

proparations, etc. University College, London.—On Thursday the prizes in the Faculty of Medicine (for the winter session) were publicly distributed to the successful candidates in the theatre of University College. The following is the list of prizemen of University College. The following is the list of prizemen in the several departments ——Anatomy and Physiology.—Gold Medal, Edward M. Skerritt; lat Silver, Welker R. Houghton; 2nd ditto, W. Dyson. Anatomy.—Gold Medal, Hedward M. Skerritt; lat Silver, Edward M. Skerritt; and Alfred Pearce Gould; lat Silver, Edward M. Skerritt; and Alfred Pearce Gold, lat Silver, Edward M. Skerritt; and Henton, Danberger, Silver Medal, Henton, Parkell, Latendard, Leonard Cane; lat Silver, John Magrath; 2nd ditto, John G. Langley, Medicine—Gold Medal, Leonard Cane; lat Silver, John Magrath; 2nd ditto, John William S. Greenfield; lat Silver, Rickman John Golde; 2nd ditto, Henry J. Benham. Comparative Anatomy.—Gold Medal, Levis John Hobson. Practical Physiology and Histology.—In Silver Medal, H. G. Jameson; Physiology and Histology.—Ist Silver Medal, H. G. Jameson; 2nd ditto, Edward M. Skerritt. Fellowes Clinical Medicine. and units, futward as Secritt. Fetiowes Cinical selections, Gold Medal, P. H. Bindley; Silver Medal, John Magrath; 2nd ditto (given by the Hospital Committee). Loon Moses Finii and Leonard Cane (equal). Bruce Medal (for proficient in Pathology and Surgery), now for the first time tward the first time.

At the meeting of the City Commissioners of Sewers AT the meeting of the City Commissioners of Sewers on Thesday, a motion was proposed—"That a chamber for the purposes of post-mortem examination would be detrimental to the general use of the morteary buildings to be crected in Golden-lane, and is not required; and that the plans on which tenders are to be received be altered by omitting the post-mortem chamber." Some discussion followed, but in the result the motion was negatived. Dr. Letheby then read his report on "Spurious Tea." He said he had obtained samples of the damaged and surgicus tax which had obtained samples of the on "Spurious Tea." He said he had obtained samples of the damaged and spurious tea which was sold by public auction at the Commercial Sale-rooms, Mincing-lane, on April 1 action The samples comprised broken-down and obtained 1 action leaves of tea which had already bose used for beverage, and, in the case of the so-called "seemed orange Pecko stitings," were made up of the broken leaves of ten, together with a large manufact of the leaves of them yellow. See Residues this. large quantity of the leaves of other plants. Besides this, there are samples of so-called scented tea-dust, which contains a large proportion of earthy matter and iron filings. The samples were sold as Congou, scented orange, Pekoe siftings, samples were som as Congou, scented orange, reace sittings, scented tea-dust, and Moning, there being in all about 600 half-chests. They were purchased for country use, and he had received from the Medical Officer of Health for Liverpool a sample of the scented orange sittings which were exposed for sale at that place. The price realised at the sale was from five-farthings to seven-farthings a pound. He submitted that the matter should receive the attention of the Sanitary Committee, with a view to legal proceedings, especially as he had been informed on good authority that a large quantity of a similar description of spurious and damaged tea is now on its way to this country from Shanghai.

THE PHARMACEUTICAL CONVERSAZIONE. - The Pharmaceutical Society gave a conversatione on Wednesday evening at the South Kensington Museum. As half the Medical Profession in London were there we need not attempt to describe what was one of the most brilliant gatherings of the season. Upwards of 3000 guests were present.

MR. SERJEANT SIMON and two other Members have brought in a Bill which would make an important change in the law relating to compensation for personal injuries. The object of the Bill is to declare that owners of dogs shall be liable for injuries done by their dogs without proof of knowledge of mischievous propensities, etc. Damages under £5 may, under this Bill, be recovered before magistrates.

THE ULSTER MEDICAL SOCIETY. - At the annual THE ULSTER MEDICAL SOCIETY.—At the annual meeting, held on Saturday last, the following gwattemen were elected office-bearers for the casuing year:—Dr. Murney, J.P. Treadent; Dr. W. MacCornac, ex.Frosident; Dr. Stewart and Browne, R.N., Vice-presidents; Dr. Fagan, Treasurer; and Dr. J. Walton Browne, Honorary Secretary: and the MacWilliams, Dr. H. See elected on the Council:—Dr. McWilliams, Dr. H. See, Dr. See and Dr. J. Walton Browne, Dr. Hill, Dr. Wales, Dr. Porter, and Sargeon McCuren, Dr. Hill, Dr. Wales, Dr. Porter, and Sargeon McCuren. Porter, and Surgeon M'Cleery.

LEEDS GENERAL INFIRMARY .- During the year 1870. 271 operation of all kinds were performed in this Institution; of these patients, 137 were males, and 74 females, cured; 74 males, and 13 females, relieved; and 20 males, and 11 females,

BABY-FARMING. - The Select Committee, of which Mr. Spencer Walpole is chairman, met for the first time on Monday

last, and adjourned till Monday next.

THE SURREY COUNTY LUNATIC ASYLUM AT WANDS-WORTH .- The annual report for 1870 states that, at the commencement of the year, there were 910 patients in the Asylum; and that, during that year, 224 additional patients were admitted, making a total of 1134. Of these, 43 males and 30 females were cured, 15 males and 19 females uncured, and 46 males and 28 females died; leaving, at the close of the year, 953 patients, of whom 408 were males and 545 females.

HEALTH OF SCOTLAND FOR APRIL.-The deaths of 2510 persons were registered in the eight towns during the month, of whom 1231 were males and 1279 females. This month, of whom 1231 were males and 1279 remaies. This number, after allowing for increase of population, is 34 above the average number for April during the last ten years. The symotic (epidemic and contagious) class of diseases proved fatal to 474 persons, constituting 18 8 per cent. of the mortality of the eight towns. This rate was slightly exceeded in Edinburgh, where measles to some extent prevailed, and in Dundee, from hooping-cough and fever combined. The proportion from this class of diseases in Leith was only 7.4 per cent. Fever caused 111 deaths, constituting 4.4 per cent. of the mortality. caused 111 deaths, constituting 4·4 per cent. of the mortality. In Dundee 7·9, and in Paisley 8·2 per cent. of the deaths were registered at typhus, 29 as enterio, 22 as relapsing, 20 as were registered at and 5 as infantile remittent flever. Measless was the most fast of the epidemics, causing 122 deaths, or 4·8 per cent. of the mortality. The number of deaths from small-pox seems to be on the decrease, only 29 having been recorded during April, as compared with 36 in March.

THE ACADEMY OF SCIENCES, PARIS.—M. Drouet claims the premium of £4000, offered by M. Breant, for curing cholers, his cure being the covering of the stomach of the sufferer with a mixture of collodion and castor-oil, or, in fact, the stoppage of perspiration. The rationale of this we must confess we do not understand.

SANITARY STATE OF GERMANY.—Dr. Frerichs, of Berlin, a well-known high Medical authority, says that the present sanitary condition of Prussia must be considered present sanitary condition of Prussia must be considered satisfactory; that there are no accounts of poidemic and other infectious diseases, and that small-pox, which prevailed among the French priseners of war, and in some places also epread among the cirl population, has been decreasing everywhere, through the operation of sanitary measures. The results of investigations made by the Governments of Bavaria, Wur-tenburg, Baden, and Hesse are equally satisfactory.

M. Longer, the celebrated physiologist, member of the French Institute, and of the French Academy of Medicine, died suddenly at Bordeaux a few days since, at the ago of 68. M. Longet is the author of works on the nervous system.

THE seventh report of the Institution for Infectious Diseases, Netherfield House, Everton, is most satisfactory, and has in every way answered the object for which it was established—viz., the prevention and spread of infectious diseases.

THE Abbeyfeale Dispensary Committee has increased the salary of Dr. MacAulife £25 per annum, "owing to the excess of duty which Dr. MacAulife has to perform, together with his unwearied eare and attention to the poor."

THIRTY-ONE insurance offices have paid during one year £20,000 in fees to Medical Practitioners for their reports in connexion with life policies.

THE Metropolitan Asylums District Board have been instructed by the Poor-law Board to provide 700 more beds for accommodation for patients, owing to the continued prevalence of small-poor

ADMIRAL HAY CURRIE, the chairman of the Asylums District Board, begs of the public presents of newspapers and other periodicals for the small-pox convalescents of the Dread-nought Hospital.

THE small-pox epidemic in Malta has, on the whole, somewhat abated. Stringent orders have been issued that all officers and men shall be immediately vaccinated or revaccinated.

M. Gustav Bischop has been appointed to fill the "Young" chair of technical chemistry in the Andersonian University, Glasgow. M. Gustav Bischop is the son of the late Professor of Chemistry at Bonn, the well known author of "Chemical Geology."

THE Rev. Fred. Chas. Edward Hill, curate of St. John's, Lock's-fields, Walworth, died last week from small-pox-caught in visiting in the thickly populated parish of Lock's-fields. He was seized on Saturday, and died the following Wednesday.

Mr. Monfor, a chemist, lecturing at the Pavilion, at Burlson, a few evenings since, referred to the mud-butter question, and said: "You may be even more astonished to know that butter has been made from fiint. I speak with authority when I say this, for I have seen a pound of 'fine fresh dairy butter' (so-called) analysed, and from it was taken half a pound of fiint."

Titz death is announced of Dr. Bruce, resident Surgeon of the Dundee Infirmary; in occurred last week from the effects, it is supposed, of an overclose of chloral hydrate taken to relieve the pain of a finger which, in some dissecting operation, had been poissened. Dr. Bruce succeeded Dr. McEwan at the Infirmary, and has only held the office for about three

TYPHOID fever prevails at present in certain parts of Tannton, from causes well known. The river Tone, as it exists at present, is an ontstretched composit for a considerable length above and below the town. The sewerage of the town and the state of the river are thoroughly bad. Capitain Factor's solicitor has once more written to the Board of Baddies of the present of the Board of the Capitain of the Capitain

BENEVOLENCE.—The London Hospital has received \$100 from "1, H." The National Hospital for Consumption, \$50 from Sir James Tyler. The St. Feder's Hospital for Stone, ten guiness from Messrs. Stein Brothers. The Victoris Hospital for Sione, Edg. The Clothworker's Company have sent £21 to the Royal Cambridge Asylmu, ten guiness to the Charing-cross Hospital, and ten guiness to the Seanner's Hospital.

THERE were two prosecutions under the Sanitary Act on Theelay. At Mathroousph-steet, an owner of some house property was fined two guiness and costs for keeping her premises in a filty condition injurious to health. At Marylebone, a contractor was fined £2 12a. for allowing a barge containing vegetable matter to remain on the Grand Junction Canal to the annoyance of the inhabitants. Afterwards, at the same Court, William Young, chemist, of S. Needls-terrace, vaccinated. He refused to have the child vaccinated because vaccinated. He refused to have the child vaccinated because his sister had a violent renjuin on the face after being vaccinated. In his business he saw a great number of children who were very bad after being vaccinated, and he had sent to the committee now sitting at the House of Commons on this subject hine cases of injury and death from vaccination. Arthurped his contraction of the committee now, Paddington, were also fined 20s. each for pephan-mews, Paddington, were also fined 20s. each for neglecting to have their children vaccinated.

AT Teheran (Persia) the famine is very distressing, and cholera prevails as an epidemic. In the villages the poor are dying by hundreds.

COMPOSITION AND QUALITY OF THE METROPOLITAN WATERS IN APRIL, 1871.—The following are Dr. Letheby's returns to the Association of Medical Officers of Health:—

	alid on.	\$ 50 E	Nitro	gen.	Hard	Inens.
Names of Water Companies,	Total Solid Matter per Gallon.	Oxygen quired Organ Matter,	As Nitrates &cc.	As Ammo- nia.	Before Boiling.	After Boiling
Thames Water Com-	Grains.	Grains.	Grains.	Grains.	Degs.	D.gs.
Grand Junction	18:73	0:057	0.184	0.001	15:0	4:1
West Middlesex	19:10	0.056	0.190	0.001	15.2	4.0
Southwark & Vaux-						
hall	20.27	0.082	0.161	0.001	15.4	4:4
Chelsea	18:27	0.051	0.191	0.001	15.0	4.1
Lambeth Other Companies.	19-63	0.067	0.181	0.005	15.4	4'2
Kent	27-83	0.029	0.281	0.000	21.0	5.9
New River	19:00	0.058	0.187	0.000	15.0	4.0
East London	20:41	0.067	0-211	0.001	15:4	418

Note.—The amount of oxygen required to exiduse the organic matter, nitrites, etc., is determined by a standard solution of permanganate of potash acting for three hours; and in the case of the metropolitan waters the quantity of organic matter is about eight times the amount of oxygen required by it.

required by it.

The water was found to be clear and nearly colourless in all cases but the following, when it was slightly turbid—viz., in the case of the Grand Junction and Lambeth water.

tion and Lambeth water.

The average quantity of water supplied daily to the metropolis during the preceding month was, according to the returns of the Water Companies to the Association of Medical Officers of Hostika, 10,155,774 gallons; and the number of houses supplied was 473,941. This is at the rate of 312 galls.

HY. LETHEST, M.B.
TEST FOR PURE CHILDRAL.—The purity of the hydrate
may, it is said, be tested by a concentrated solution of potash.
Pure hydrate does not colour this at all (or, at most, only of a
feeble yellow), and the pure smell of chloroform is given forth.
Should the liquid assume a brown colour, and a smell of chloroacetic acid be combined with that of chloroform, or should
gases of a purgent doorn be disengaged, which is not seldom
the case, the product is impure and unfit for use.—Boston
Journal, March 30.

APFARENT DEATH BOOM LETHAROY.—Doubless many during the recent war have been consigned to the grave whose death was only apparent. Professor Nussbaum, of Munich, writing to a friend from Orleans, said—"I experienced a terrible emotion after the battle of Orleans, during October 10 and 11, when one dark, cold night gave rise to so many letbargic deaths. We returned several times with four or five porters to wounded persons who had been left for dead, while the heat's pulsation could still be easily perceived, and who by the aid of warmth and refreshment we restored to life. Loss of blood, exhaustion, hunger, cold, and fear seem to me to have been the causes which gave rise to this tethorary, and I on the fall to have the best of the control of the

NOTES, QUERIES, AND REPLIES.

Be that questioneth much shall lenen much .- Bacon.

G. W.—St. Bartholomew's Hospital was founded in 1539, and incorporated as an Hospital 1546.

L.S.A.—At the last pass examination for the diploma of Membership of the College of Surgeons, there were twelve gentlemen possessing the licence of the Hall.

Inquirer.—According to the Registrar-General's statistics, the average daily mortality of Melbourne for 1870 was 7:29, and the total mortality equivalent to 1:62 deaths to each 1000 of the population.

An Old Subscriber.—It is clear our correspondent was actuated by the best motives, but we think that he fell into a mistake.

Montely-are Proton—The Proton—Brosing News of Monday last contains a report of an injuries on a police sergeant, with the following relation of the proton of the proton of the proton of the contained injuries between Dostons. We have no hesitation in injuries the proton of the proton of the proton of the proton in the sacrety pressury to enter into the particulars of the case—it is he old, old story of Doston disappearing. Though such disappeares have given origin to what is now regarded as a proverly, nothing is more offensive to prod date of more infinited tour true control that the positication of such petty and contemptible squabbles. The coroner, Mr. Hargreaves, was evidently of this opinion, and very properly refused to admit evidence, which, had it been received, could have been productive of nothing but a wordy war, without any good result. When are we to be united in the good and righteous cause of protecting and upholding our just rights and privileges! Division amongst us is weakness, union is strength. No Acts of Parliament can effect for us what, if we were united, we could effect for ourselves. It would be well if we could always ar in mind, and act upon, the axiom of the Great Napoleon, that "It is better to wash one's dirty linen at home."

Studens .- Metallic tinkling is the clear ringing metallic echo produced when in a large cavity containing air with a layer of fluid at its bottom, a drop of fluid falls from the upper part of the cavity into the fluid below. Metallic tinkling is best heard when a vomica or tuberculous cavity. situated near the surface of the lung, has communicated with the pleura by perforation. Fluid finds its way into the pleural sac, or is effused by the irritated pleura and gravitates to the bottom. Air also escapes into the pleural sac through the perforation. If then a drop of fluid fall from the vomica or cavity through the pleural sac into the fluid beneath, it produces a note of a clear ringing character, which is echoed by the pleural walls, to which the name of "metallic tinkling" has been given. The same sound may also be produced in large cavities in like manner. This is the mechanism in the most perfect examples of metallic tinkling. By some authors, however, the term metallic tinkling is applied to a shrill metallic sound, which may accompany respiration, or voice, or cough, when air and fluid coexist in a large cavity. If a person breathe into water by an elastic tube, the bubbling which results will have a metallic tinkling character. Hence De Castelnean and Louis considered metallic tinkling " as nothing more than mucous or cavernous rhonchus. resounding through a spacious cavity, by means of a communication established between that cavity and the bronchi." Dr. Walsh regards metallic tinkling as the echo of a bubble or, at least, of a sound generated within liquid.

Cambridge.-There can be no doubt that the charges brought by Dr. *ambridge.—There can be no doubt that the charges prought by 1\u03c4. Ransom against Dr. Buckenham, one of the Surgrons to the Cambridge Union, were of the most frivolous character, and ought never to have been submitted to the Board of Guardians. The Board, however, dealt with the subject in a manner highly honourable to them, and by a large majority-14 to 4-passed the following resolution :- "This Board, having heard the explanation of the charges brought by Dr. Ransom, are perfectly satisfied that Dr. Buckenham has not neglected his duty, and regret that he should have been summoned to answer so groundless a charge." It is gratifying to read the report of the proceedings of the Board, as given in the Cambridge Chronicle of the 13th inst. The speech of Mr. Cooke, in particular, is worthy of commendation, not only on account of the good feeling which pervaded it, but for the keen sense which the speaker entertained of what was due from one Medical centles man to another. He laid down, in a few words, some principles of Medical etiquette, which did him honour. How many acts of injustice and oppression might be prevented if the rules of conduct laid down by Mr. Cooke were more generally observed, not only by boards of guardians, but by members of our Profession ! We read, with feelings of deep recret. the statement that "during Dr. Ransom's absence from this Board no charge whatever was made against Dr. Buckenham for neglect of duty. But no sconer did 1r. Ransom get there, than he gave notice of an attack on one officer of the Board, which resulted against Dr. Ransom, who then preferred a charge against Dr. Buckenham." If we are not true to ourselves, how can we expect the public to be true to us? We do not criticise the motives which influenced Dr. Ransom—it may be assumed they were good; but after the lecture he heard from Mr. Cooke, it is to be hoped he will be a wiser, if not a sadder, man.

SIR DOMINIC CORRIGAN'S BILL FOR OBTAINING REMUNERATION FOR THE EXAMINATION OF LONATION AND SUPERANNCATION FOR THE MEDICAL OFFICERS OF LEGATIC ASPLIES IN RELIAGO. The following letter has been issued by the Poor-law Medical Officers'

Association, Ireland :-

"1. That the Medical officers or each union shall elect from amongst their number a union representative.

"2. That the union representatives of each county shall elect from amongst their number a county representative, who shall be in communi-cation with the Parliamentary representatives of that county.

"3. That the county representatives shall invite every member of the Medical Profession in each county to join this Association, their interests (as far as they go) being identical with those of the Poor-law Medical Officers.

Officers.

"4. That in any union or county in which it may be deemed advisable to do so, any member of this Association, although not being a Puor-law Medical Officer, may be elected by ballot to be either the union or county That the thirty-two county representatives shall form the Council

of the Association.

of the Association.

**a. That an amering shall be held quarterly and alternately in each of

**a. That an anousi moreting shall be held, when the General Prointies,

***. That an anousi moreting shall be held, when the General Prointies,

**Treasury, and Secretary for the year shall be appointed, shall be a. 0.

There being 1000 Fuor-law Medical Officers in Irreland, this would proints

in income of 2.125 per annum, which would core printing, postage, and

an income of £155 per ansum, which would cover prantum, powers, as additionary.) How predictions have already plotted the Association, and committed co-operations will, no doubt, lead to very important results. I would impress upon you the describedity of your single your induces the violation of the properties will, no doubt, lead to very important results, I would impress upon your describedity of your single you induces the violation, and of establishing a good working branch in your county, as without timely we can hardly hope for excess; and the frequent sile year without timely we can hardly hope for excess; and the frequent sile year that you may be a yet have realised the reponsibility and rate of ransing and contribute for alleged disappress in the properties of the

liable to be called on to undertake this onerous and troubleone onest and program.

The program is a superior of the program o have every prospect of success.

1 remain yours very truly,

"D. Tolks T. Mauxell, Ser

EFFECT OF ELECTRISATION OF THE PETERSON CHAPTURABLE. TO THE ROTTON OF THE PETERSON CHAPTURABLE. SIGN—The BOUTON OF THE MEDICAL THREE AND CARTEL. SIGN—The BOUTON OF THE MEDICAL THREE AND CARTEL. SIGN—THE BOUTON CHAPTURABLE AND CARTEL. SIGN—THE SIGN CHAPTURABLE AND CARTELL SIGN CHAPTURABLE. THE ANALYSIS OF THE SIGN CHAPTURABLE AND CARTELL SIGN CHAPTURABLE. THE ANALYSIS OF THE SIGN CHAPTURABLE AND CARTELL SIGN CHAPTURABLE AND CARTELL SIGN CHAPTURABLE. THE ANALYSIS OF THE SIGN CHAPTURABLE AND CARTELL SIGN CHAPTURABLE C

own case, should like to know the result of the electric test on this muscle, and

trust Dr. Duchenne's observations will be published in extens I am, &c.,
Kamptee, April 13. E. H. Llovo, F.R.C.S., Assistant-Surreon R.A.

SCOTTISH MORALITY.

Kamplee, April 13. E. H. LOVID, F. E.C.S., Assistanti-Surgeo R. A.

SCOTTES MORALITY.

Sin. AD THE SETTED OF THE MEDICAL YIRES AND GAIRTIL.

Sin. And The LOVE OF THE MEDICAL YIRES AND GAIRTIL.

Sin. And The LOVE OF THE MEDICAL YIRES AND GAIRTIL.

Social morality, a crather immorality, among the labouring classes of Social, depressing on the settlement of the control of the contr

and that more rare our woman was man too are character to rever a

A word in conclusion about the much-numbed chastity of Irish girls. It
is well known that the Irish encourage early and improvident marriage,
while the Scotch do not. Now, if this be the explanation of Irish chatity,
I at least do not value it much.

I at least do not value it much.

Wat. Carpett, L. E.C.S. Edin.

COMMUNICATIONS have been received from-

Mr. W. Campeell; Dr. W. Roe; Dr. J. Russell; Dr. Phillips; Dr. H. G. Dalton; Mr. F. Webstee; Dr. Armstrong; Dr. Acland; Mr. H. O. DALTOK; Mr. F. WERSTER; DP. ARMSTROSQ; DF. ACLASD; Mr. METCALER JOHRSON; DF. F. R. HOOQ; Mr. LAWIS TROOPROS; DF. PLAYIS; Dr. STOTHARD; Mr. W. HINTER; Dr. WILDBOUSK; DR. CHARTERS; Mr. F. H. WELCH; Mr. E. H. LLOVD; Mr. A. H. SREI; Mr. J. CHATTO; Dr. R. DOUGLAS POWELL; Dr. DAY; Mr. H. ANSTI; Dr. J. Hughlings-Jackson; Dr. F. A. Harter; Mr. J. C. Steele; Dr. McCall Andresson; Mr. W. D. Michell; Dr. Baakenridge; Mr. G. LAWSON; Mr. F. T. PROCTAR; Mr. C. F. MAUNDER.

BOOKS RECEIVED-

Contributions towards the Materia Medica and Natural History of China, by Frederick Porter Smith, M.B. Lond.—Army Medical Department Report, 1869-Dr. James D. Gillespie on the Resection of the Wristjoint-Remarks on Mr. Clark's Calcutta Drainage Scheme, by Dr. David B. Smith, Sanitary Commissioner for Bengal-Handy-book of the Treatment of Women's and Children's Diseases according to the Vieno, Medical School, by Dr. Emil Dillaberger, translated by Patrick Nicol, M.B.—Our Baths and Wells: the Mineral Waters of the British Islands, with a list of Sea Bathing-places, by Dr. John Macpherson-The Surgery of the Rectum, third edition, by Henry Smith, F.R.C.S.—The Co-operative System of Society, by Dr. Henry Travis—The Physiology and Pathology of Mind in the Lower Animals, by Dr. W. Lauder Lindsay -Dr. R. A. Duhring on the Study of Dermatology-Dr. Wm. Murray on the Rapid Cure of Ansurism by Pressure.

PERIODICALS AND NEWSPAPERS RECEIVED.

The Preston Evening News-Belfast Evening Telegraph-Nature-Pharmaceutical Journal-The Chemist and Druggist-Ameri Insanity, April-Liverpool Mercury-Glasgow Herald.

APPOINTMENTS FOR THE WEEK.

May 20. Saturday (this day).

Operations at St. Bartholomew's, 1½ p.m.; St. Thomas's, 9½ a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 9½ a.m.; Royal London Ophthalmic, 11 a.m.

*g s.m.; Royal romono Operchamme, 11 s.m. Association or Manical Opticas or Health, 7½ p.m. Dr. Ballard, "On the Interment of Still-born Children." Dr. Letheby, "On the Quality of the Water-supply of some of the large Cities and Towns of England, in relation to their Sanitary Condition."

ROYAL INSTITUTION, S p.m. Joseph Norman Lockyer, P.R.S., "On the Instruments used in Modern Astronomy."

22. Monday.

Operations at the Metropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Peter's Hospital for Stone, 24 p.m.; Royal London Ophthalmic, 11 a.m.

23. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopsedic, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Ophthalmic, 11 a.m.

ETHNOLOGICAL SOCIETY, 4 p.m. Anniversary.

ROYAL INSTITUTION, 3 p.m. Rev. Prof. Haughton, M.D., F.R.S., "On the Principle of Least Action in Nature."

ROYAL MADICAL AND CHIBUBGICAL SOCIETY, 83 p.m. Dr. Elam, "On Partial Acute Idiopathic Cerebritis." Wr. L. S. Little, "On Subcutaneous Section in Bony Anchylosis of the Knee-joint."

24. Wednesday.

Operations at University College Hospital, 2 p.m.; 8t. Mary's, 1½ p.m.; Middlesex, 1 p.m.; 1 Jondon, 2 p.m.; 8t. Bartholomew's, 1½ p.m.; Great Northern, 2 p.m.; 8t. Thomas's, 1½ p.m.; 8amaritan, 2.30 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmic, 11 a.m.

SOCIETY OF ARTS, 8 p.m. Meeting.

25. Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmie, 1 p.m.; Royal Orthopsedie, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmie, 11 a.m. Geraham Cottege, 7 p.m. E. Symes Thompson, M.D., F.R.C.P., "On the Water-supply of London."

ROYAL INSTITUTION, 3 p.m. Prof. Tyndail, LL.D., F.R.S., "On Sound,"

26. Friday.

Operations at Westminster Ophthsimie, 15 p.m.; Central London Ophthalmie, 2 p.m.; Royal London Ophthalmie, 11 a.m.; South London Ophthalmie, 2 p.m.

CLINICAL SOCIETY, 83 p.m. A Paper by Dr. Meadows. Mr. Holthouse, "On some Cases illustrating the Treatment of Hernie temporarily Irreducible." Dr. Baümler, "On Cases of Partial and General Idiopathic Pericarditis."

GERMAN COLLEGE, 7 p.m. E. Symes Thompson, M.D., F.R.C.P.,
"The Heart and Lungs in Health and Disease."
ROYAL INSTITUTION, 9 p.m. Prof. Rankine, F.R.S., "On Sea Waves."

EXPECTED OPERATIONS.

London Hospital.—The following Operation will be performed on aturday (this day) at 45 p.m.:—

By C. F. Mr. Maunder-Ovariotomy.

VITAL STATISTICS OF LONDON.

Week ending Saturday, May 13, 1871.

BIRTHS.

Births of Boys, 1048; Girls, 1023; Total, 2071. Average of 10 corresponding weeks, 1861-70, 2056.7. DEATHS.

Deaths during the week. Average of the ten years 1861-70. Average corrected to increased population Deaths of people above 90.		Females. 625 650-1	Total, 1341 1332-9 1466
DEATHS IN SUB-DISTRICTS	FROM	EPIDEM	ICS.

d &

		Popula- tion, 1861.	8mall-p	Measle	Scarle Fever	Diphthe	Whooph	Typhu	Typhot Fever	Simple continu Fever	Diarrho
West	***	458125	12	3	9		4	Ī	8	1	. 2
North	***	619210	85	1 1	6	1	5	6	8	***	4
Central		883321	13	1	5		2		1	***	1
East	***	571158	36	2	4	1	8		1	1	***
South	***	773175	88	9	11		6	5	1	2	6
Total	***	2903969	232	16	3.5	2	25	11	9	1 4	13
			30	LYTY E	ORO	TO	70				

From Observations at	the	Gre	enscie	ħ.	Observ	ate	ry.
Mean height of barometer .							29-974 in.
Mean temperature				٠		٠	47.6
Highest point of thermometer .				٠			72-9"
Lowest point of thermometer .				٠		٠	34.0*
Mean dew-point temperature .						٠	40.8
General direction of wind				٠			N.E.
Whole amount of rain in the wee	k.			٠		٠	0°15 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, May 13, 1871, in the following large Towns:-

Temperature of Air (Cent.)

Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Populati middle of the year	Persons to an Ac (1871.)	Births Registered the week ending 3	Deaths Registered the week ending M	Highest during	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3259469	41.8	2071	1841	79-9	34.0	47'6	8.66	0.12	0-38
Portsmouth	125464	13.2	63			36.5		10.06	0.00	0.60
Norwich		10-9	48			35-8	45'3	7:39	0.03	0.08
Bristol		87.6						***		
Wolverhampton	74438	25.0			73.0			9.00		0.00
Birmingham		48:3			75'0		49.0	9'44		0.00
Lelcester		81.7	82				48'8	9:33	0.15	0.30
Nottingham	90490	45'3		17		38.2		10.22	0.00	0.02
Liverpool	526225				68.3	37.4	48-9	9-39	0.00	0.00
Manchester	879140	84'5					***	***	275	***
Balford	123851	23-9		73				8.94	0.00	0.00
Bradford	148030			66	71'5		49.3		0.00	
Leeds										
Sheffield	255247	11:9		127	70.0	87.0	47'8	8.18	0.00	
Hull	135195	38'0				31.0	45.9	7.72		
Sunderland		81.3		54		1-1		***		***
Newcastle-on-Tyne		25'5		70				9-99	0.00	0:00
Edinburgh		40.6			67.7		4N'T	10:11	0-07	
Glasgow	477627	94'3			73.4	31.2	50-2			0.18
Dublin (City, etc.)	322321	83.1	+145	+151				+14	+ 00	
Total of 20 Towns in United Kingd'm	7336961	8414	4952	3375	75.0	32-2	48-5	9.16	0-08	0.08

At the Royal Observatory, Green wich, the mean reading of the barometer in the week was 29.97 in. The highest was 30.21 in. on Sunday morning, and the lowest was 29.77 in. at the end of the week.

and the lowest was 29.77 in. at the end of the week. The population of Cities and Rorough for 13.71 is estimated, on Nets.—The population of Cities and Rorough for 13.71 is estimated to the assumption that the increase with self-like this distant period, bow-ever, from the last of those two censuses, it is probable that the estimate may in some lastances be erronecomes. The estimates for Liciester, Notice, ham, Leeds, Bradford, and Hull are based upon a local enumeration of the inhabited houses.

• The actual numbers (unrerised) of the population of these cities and borough), as enumerated on speel 3, will probably be available before the continuous and will here be substituted for these estimates. • The usual return from Dublin not having come to hand, averages of the births and deaths in that city in the five previous weeks have been used in order to make totals for the 50 bowns.



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Fide "Lancet" Report, July 3rd, 1809; Brit. Med. Association Reports, Fide "Lancet" Report, July 3rd, 160; Brit. Mod. Association Report, 100. At the last meeting of the Rivith Medical Association, in a paper and by Dr. Cornelius Fox, on "Clinical Thermometers," it was associated that this instrument was far superior to that of any other maker. Does not be a superior to the superior of the superior to the pattern of the superior to the superior to the pattern of the superior to the pattern of the superior the superior to the supe

SELF-RETAINING CATHETERS. Vide "The Lancet," Feb. 19th and May 14th, an MR. BARNARD HOLT'S SELF-RETAINING WINGED INDIA-RUBBER CATHETERS are now ready, and can be obtained only at

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ORIGINAL LECTURES.

ON THE INFLUENCE OF THE NERVOUS SYSTEM ON DISEASES OF THE ORGANS AND TISSUES.

By THOMAS LAYCOCK, M.D., etc.,

lessor of the Practice of Medicine, of Clinical Medicine, and of Medical Psychology and Mental Diseases, in the University of Edinburgh.

(These lectures have been revised, and somewhat extended, by Dr. Laycock.)

LECTURE III.

THE DIAGNOSIS OF TROPHIC NERVOUS DEBILITY -CUTANEOUS TROPHESIES-METASTASIS-COUNTER-IRRITANTS.

(Concluded from page 536.)

The case just noted illustrates the trophic functions of the spinal cord, but like clinical facts show that the encephalon regulates trophic changes. I call your attention to a case of eardiac dropsy, as an instance, recorded in the Motical Times and Gastrie Diccomber 28, 1861, and to the cases of neutric dropsy and codems which I detailed in a paper read to the table McGelad and Chirurgical Society of London, on April 26, and the control of the contro 1865, subsequently published in an extended form in the Edinburgh Medical Journal for March and April, 1866. The nature and causes of nervous and local ordemas and of serous metastasis were also discussed in a clinical lecture on the physiognomical diagnosis of dropsies, published in the Medical Times and Gazette for May 31, 1862. In those papers I demon-strated the influence of the nervous system on the production,

strated the influence of the nervous system on the production, prevention, and removal of dropsical effusions.

None of the vaso-motor theories of dropsy recognise the relations of the nervous system to the lymphatics and absorbents; they are complex and contradictory, but all are more or less founded on hydrostatics and hydraulies. There is, it is alleged, a venous reflax on the weakened than the contradictory, in consequence of the interrupted transit of the holed through in consequence of the interrupted transit of the holed through the constraints. transit of the blood through the veins or the heart; then, the blood being watery (hydraemia), the watery serum cozes hydraulically, or, in the lower extremities, hydrostatically. through them, and so collects in the cellular tissue or shut sacs. The weakening of the capillary walls may be due to vaso-motor paresis, by which congestion and diminished retentivemotor parens, by writen congestion and diministed reach.

ress are caused, and so watery exutation takes place. This is Virchow's theory of nervous influence. Now, in the case of cardiac dropsy referred to, a woman, aged 30, had mitral constriction with paraplegic dropsy, but no renal disease. As the case of the legs and thighs was distressing, an incision was made over the left ankle, and punctures over the right. In a day or two she had an attack of hemiplegia of the left side, the arm and left side of the thorax being chiefly affected, and before death anæsthesia of that side. With the hemiplegia, the left arm as well as leg became very odematons, but the ordema of the right leg and thigh disappeared, and the right arm was little affected. Here, then, was a case not only of arm was little affected. Here, then, was a case not only of angarwation of ansaarcs, but of cessation and disappearance, for which none of the theories of dropsical effusion gives an explantion. For this purpose another hypothesis is needed. To explain the disappearance, it could be alloged that the case was an example of a well-known morbid phenomenon—namely, that of serous metastasis; it was the serum of the palsied side transmitted to the brain by "metastatic solicion" which caused the palsy-stroke. It so happened, however, that on post-mortem canniantion a clot was found in the right middle cerebral artery (as, indeed, was diagnosed during life), and no serum. In truth, this theory of serous metastasis is a mere figment of the imagination. The state of the right brain due to the plug was the proximate cause of the absorption of the fluid from the left side. Here was a new fact in vaso-motor pathology of ser site. Here was a new fact in vaso-motor pathology of write practical significance, for precisely similar results are seen write practical significance, for precisely similar results are seen "suppressed" gout, "repelled" eruptions, and diried-up ulcers, from, as I think, similar causes—namely, changed conditions of the nerve-centres. In none of these instances of alleged transference of a materia moreh is there any proof of the fact of such transference, any more than in this case of "metastatic" dropsy. The theory rests almost solely on the fallacious post hoe ergo propter hoe, and is inconsistent with itself and with therapeutics. On the other hand, the theory that metastasis

Vol. I. 1871. No. 1091.

is neurotic in origin is sufficient, and is practically available in all cases of the class. All we have to bear in mind is that there are two conditions of the nerve-centres diverse in results and different in seat in cases of dropsy—the one condition favouring the occurrence of certain changes, the other inhibiting

favouring the occurrence of certain changes, the other inhibiting it. This is the state of things when pain and inflammation cease in one joint and begin in another in gout and rheumatian. There are cases of hemiplegic jaundice, and of cruptive fevers, as measles, in which there is a phe-nomenon of the same class—on the one side there is a predisposing neurosis; on the other, an inhibiting condition, just as in cases of hemiplegic dropsy. To this class also bedien, just as in cases of hemiplegic dropsy. To this class also bedien, and disappears like an urticaria evanida. A neurotic condition seems to be the reason why tubercles are absent in ansesthetic leptrost. We thus evolain, also, why those cases of availities in We thus explain, also, why those cases of syphilis in reprosy. We trust a pash; and, why those cases of sypmis which there have been no cutanous affections are most predisposed to syphillitic diseases of the norrous system, as in the case of paraplegia just referred to. That patient had had chance and bube, but never other results of syphillitic infection. It is only when graves ymptome soincide with as o-called repelled cruption when grave symptoms coincide with a so-cause repeated cruption that the neurosis upon which the cessation of the inflammation depends is of serious omen. To this class belong other metastatio phenomena—as, for example, the cessation of the pulmonary symptoms in a case of phthisis when brain disease comes on. These cilincial facts are illustrated by and illustrate the wellknown experiments of Claude Bernard on the sympathetic cervical ganglia. It is usually said that the increased heat and congestion which result on the same side as the injury are due to a palsy of the vaso-motor nerves of the part, and no regard is wa passy or the vasco-motor nerves of the part, and no regard is had to an equally constant yet diverse condition—the coldness and pallor—on the opposite side. As a simple fact, we find that, on the one side, vascular activity is intensified, on the other inhibited, with corresponding changes in heat-production and nntrition, just as occurs in the hemiplegie and metastatic cases of dropsy referred to. For an outline of my views on metastasis,

of dropsy reterred to. For an outside of my views on mecasicals, if must refer you to my text-book (a) your observations at the beddied in regard to the morbid results of trophic neuroses, and more especially as to their operation as predisposing causes of disease. Let us now see what practical lessons in the use of remedies may be deduced from the fasts and the conclusions One class-viz., that of counter-irritants, including "rubefacients"-may be taken as illustrative of others; and "rubefacients"—may be taken as illustrative of others; and as they are in daily use, and their suckes operand, after nume-rous recent discussions to the sucket of the sucket of the What is meant by counter-irritation? The question is not sample as it appears, for the solution of various and wholly distinct problems is included in it. I think, however, we may affirm generally that the change we induce by counter-irritants locally is of the nature of inflammation, either with or without effusion, exudation, and, I may add, suppuration, in

the case of actons and issues

In all observations of this kind we must not, however, forget a general fact deduced from clinical observation and experimen tal research, and very manifest in the growth of cutaneous hair and scales—viz., that not only do the tissues themselves undergo normal vital changes independently of nerves or of a nervous system, but also that nerves and nerve fibrils perform their approsystem, but also that nerresand nerve florils perform their appro-priate functions independently of nerve-centres. Nerves are pro-duced anew in organised plasma, and join on to the general trunk in accordance with the order of embryonic development of the nerves from the periphery to the centre. MM. Philipeaux and Vulpian made numerous researches, which prove that nerves separated wholly from the nerve-centres, and completely altered as to nutrition, may become regenerated, although remaining separate, and recover all their vital properties. (b) Numerous experiments, also, on the nerves of muscles show that these motor nerve-fibrils have their own inherent properties in entire independence of brain, spinal cord, or nerve-centres, and not only in separated limbs, but in muscles that have been cut from the limbs. Unless these facts be borne in mind, it is not possible to appreciate the influence of even the sympathetic ganglia on morbid changes in organs and tissues

Again, varying results follow, according to the nature of the irritant used. When certain drugs are the means, then, besides their local action, there is that which results from their absorption, as, for example, spirit of turpentine, which, when used as a "rubofacient," gives a poculiar odour to the urine, or that element of the cantharides-blister which excites strangury.

⁽a) "Principles and Methods of Medical Observation and Research." coond edition, p. 283.
(b) Comptes-Rendus, Oct. 10, 1859.

Leaving this point out of consideration for the present, we may a further that, as to the tissues affected, all counter-irritants (amongst which heat and cold and other physical irritants must be included) act either locally on the issues, including the nerves and bloodvessis, or else on the nerve-centres through the nerves and bloodvessis, or else on the nerve-centres through the heavers, and thence by reform action on the same, or a distant organ or tisms. We thus service at this general principles prescribed the present in tenses and organs, must be our quiste in the second to the second control of the sec

of counter-irritants and rubefacients.

This being so, one practical conclusion follows directly—vir. that for the purpose of effective counter-irritation, beyond merely local results, it is necessary that there be continuity of seasory or affects trophin enerve between the surface irritated and the nerve-centre to be acted on, otherwise no change can be effected therein. Again, if there be no continuity of efferent or motor nerve between the part to be modified and the nerve-centre which modifies, no counter-irritation will avail, although centre which modifies, no counter-irritation will avail although surface may be made available for actiting reflex action, so in like manner other surfaces than the surface of the body may be available. for counter-irritation. Hence, when we excite vonithing by tartar emetic, myring by croton oil, acammony, or other drastic purgatives, and strangury by canthardes, we counter-irritate as certainly as when we apply sinapsium to the feet, funes of ammonia to the nearth, and dy-blatters, turned to the control of the surface, induced otherwise than by counter-irritation, of these surfaces, induced otherwise than by counter-irritation, will have a disaltalic action analogous to that of counter-irritation.

Having thus, then, widened our view of matters, let us take mp a few practical points. Firstly, we desire to alter the condition of the nerve-centres in centric diseases by counterirritants. The time-honoured use of sinapisms to the feet and wrists in apoploxy and comatose affections generally is a familiar example of direct irritation through afferent nerves; so, also, the irritation of the nasal branches of the fifth nerve in cases of the irritation of the massi orandess of the first nerve in cases of failure of the heart's action; but you may widen much the sphere of these remedies. For example, I have seen cephalic snuffs of great use in epilepsy, and I have no doubt they might be applied with advantage in other encephalic diseases of defective nutrient and vascular activity. The ancient Greeks used this class of remedies so systematically in head affections that this class or remedies so systematically in near aircrition man they invented a double-piped syringe for the purpose of injecting counter-irritants into both nostrils at once. In cases in which it is advisable to stimulate the nerre-centres through the afferent nerves, hot applications, as Donovan's button, may be applied, or rubefacients, which excite more or less pain and tingling. In certain cases of paraplegia I have found it very useful to cover the lower extremities with sinapisms for half an hour two or three times a day, so as thereby to excite vaso-motor activity in the motor cord through the sensory nerves. In these cases it is necessary that there be at least sufficient integrity of the sensory nerves and nerve-centres to evolve and transmit the regulative or sensory vis nervosa. If there be complete ansesthesia from structural change, little good will be done; but if the lost or diminished sensibility be only func-tional, you may re-excite centric sensory activity by stimulating the sensory nerve-fibrils, in accordance with the Wallerian law of line of physiological activity that I previously explained to you; for, just as sensory centric disease may begin at the periphery, so, also, may the cure. This rule applies to all those trophesies in which there is sensory defect, but not to the extent of absolute anæsthesia—a mere trophic debility being the result. In this numerous class there is commonly a defective evolution of both motor and sensory vis nervosa; but as the evolution of the one is excited by the other, it is plain we must act therapeutically upon the sensory system in the first in-stance, and this can be done by counter-irritants. It will be a daily problem for you to determine how far pain or tenderness on pressure should indicate or contra-indicate the use of counter-irritants. The facts to ascertain are the causes of the pain. Is it due to local causes, as when a wound is inflieted. pant. as future to local causes, as when a wound is linuscent, or, if there be local causes, has pain preceded or followed them: It is too often assumed that the pain is wholly due to local changes; whereas it either precedes or coincides, as in octain sensory trophesies. The connexion between pain, as courtains sensory trophesies. The connexion between pain, as coursalgis, and metastassis in rheumation and gout, shows how certain trophic changes are dependent on the sensory system. A morbid change is often the more dangerous, in system. A morous enange is once the more cangenous, in fact, because painless, as in the case of paraplegia I quoted, or because it ceases with cessation of pain, as in metastasis. In examples of this kind, pain is only a stage to that trophic palsy which is indicated by complete ansesthesis. Hence the import-

ance of studying morbid-tissue change in relation to pain and painful states, whether of body or mind, and under this head the relations of neurotic discasses of organs and tissues to mental work, and to mental pleasure and pain.

It may be held as a general princip chart diminution and It may be held as a general princip cheet in that centive princip cheet in that centive princip cheet in the centive princip cheet in

On the other hand, in a numerous class of cases—in those, for example, termed "idiopathic inflammations"—there is a healthy or normal reaction against injurious agencies, and, of course, a comparatively healthy nervous system. How shall we be counter-irritants in these? I think we can still fall back upon the laws of reflex action for guidance. When an irritant is applied to a nerve, and excites reflex movements, they are of a conservative character; so, also, when it excites the reflex nutri-tion, which is the result of its action on the trophic system. But this is only seen when the regulative or sensory system retains its functions; otherwise there is no healthy reaction, but rather a tendency to what is unhealthy. If, then, the counter-irritant fails to excite the afferent and regulative system normally, it is useless, and may be injurious. Pain is a natural sign of injury. When, therefore, there is tenderness on pressure, or referred to the region of an inflamed organ, would that indicate the use of counter-irritants? Here, again, the question is more complex than it appears on first considerati is more complex than it appears on first consideration, in some cases there is hyperresthesis of the six many second some cases the proper second second second second second tension or other local and merely mechanical causes. Furth, the pain is not always referred to the seat of the inflamma-tion, but elsewhere. Thus, occasionally, in both plenty and pneumonia it is not experienced in the affected side. but in the opposite; so that the question arises whether de cussating nerves are affected sensorially, and direct trophic nerves motorially. Upon the whole, in acute cases, both experience and theory are opposed to violent (i.e., inflammatory) counter-irritation—rubefacients, at the most, are all that are needed; but even these are more doubtful than local sedative with warmth and moisture to the skin. The local morbid con-dition has already caused those centric changes upon which pain depends, and the normal reaction has followed : so, it seems advisable to relieve the pain rather than increase it. In this way the great additional suffering may be spared the patient which the "heroic" use of blisters, tartar emetic, croten oil, and other inflammatory counter-irritants inflicts.

oil, and other innammony counter-irritants innited.

I think we can also make these views available to a piete in the control of the control

I rould multiply illustrations of this kind, if necessary Irritants to the stomach, for example, act as counter-irritants on the lungs as well as on the brain; irritants to the kidneys, urethra, and cervix uteri are counter-irritants to both brain

and spinal cord-in short, all the diastaltic actions of irritated mucous surfaces and of morbid viscera are of the nature of counter-irritation, and may be induced artificially. I will only mention one curious illustration:—Irritation of the urethra not unfrequently excites violent rigors. The New Zealanders adopt a coarse means for this purpose, as a counter-irritation for the cure of tetanus,

LECTURES.

ON THE PRINCIPLE OF LEAST ACTION IN NATURE.

ILLUSTRATED BY ANIMAL MECHANICS.

DELIVERED AT THE

Mogal Institution of Great Britain,

By the Rev. SAMUEL HAUGHTON, M.D., F.R.S., etc. (Corrected by the Rev. Professor.)

TUESDAY, MAY 23, 1871.

LECTURE I.

Science of Animal Mechanics defined as the application of the Principles of Geometry and Mechanics to Comparative Anatomy— General Principle of Least Action, as observed in Astronomy and Centeria Frincipia of Leau. Action, as observed in Astronomy and Physics—Application of this Principle to Animal Mechanics— Illustration of the Pleasures and Difficulties of the Study of Animal Mechanics, from the Lecturer's Adventures in search of the Co-efficient of Muscular Force.

LADIES AND GENTLEMEN,-I take for granted that there are none of those now addressed who have not read, both with pleasure and profit, the remarkable volume called "Gulliver's Travels." But of the many who have read that charming book, there are few who know the real circumstances of its production. It is only the fragment of a greater work, which the world has lost for ever—a work which would have been the world has lost for ever—a work which would have been the result of the combined genius of three of the most remark-able men which the world has produced—an English-man, a Scotchman, and an Irishman. More than 150 year-ago, in the good old times when Queen Anne reigned in England, and when Science, Literature, and Art were patronised in her Court, three remarkable men were com-panious—Pope, an Englishman: Dr. Arbuthnot, a Scotchman; and an Irishman, you will permit me to say greater than either, the illustrious Swift. It was proposed by Pope that a novel should be written by these three men. Pope was to have taught Martinus Scriberus logic, grammar, and metaphysics; Dr. Arbuthnot was to have taught him Medicine, while the great Swift was to have written his trayels. "Guillver's Travels" were Switt was to have written his travels. "Guilliver a ravets were produced, but, in consequence of the troubles which separated these illustrious men, they appeared alone under that name. The accession of George I. not only destroyed the prospect of the world's seeing the complete adventures of Martinus Scriblerus, but it lost for England a great work on Animal Mechanics.

Dr. Arbuthnot was a most skilful geometer as well as an expert anatomist, and he conceived the project of uniting these sciences into one, and of so creating a new field of discovery. His appointment as Court Physician to George I. withdrew him from the ranks of Science, and England lost the work on

animal mechanics.

It was left for the Italian, Giovanni Alphonso Borelli, to lay the foundations of this remarkable science. He taught mathematics and Anatomy in the University of Naples at the accountance and annuancy trans (inversity or Aphes at the union of anatonay and geometry, were approved by the re-fra-ing pope, and declared to contain nothing dangerous to faith or morals. He produced his remarkable book, "De Mota Animalium," in 1889, but he died before it was given to the world, and unfortunately without knowing what Newton had word, and ullocatacty without knowing what sewton has theovered as to the composition of forces. Although this book contains traces of the most brilliant genius, it is full of mistakes in consequence of its author's ignorance of the com-position of forces; but it remains with all its errors the only book published since 1680 that can be called a scientific treatise on animal mechanies.

In later times an attempt was made by two remarkable Germans—Edouard and Wilhelm Weber, Professors of Mechanics and Anatomy-to forward the new science. From conversing together, these two men came to the conclusion that if these two sciences were brought together they would make a third. They produced a treatise on the motions of the human body, which will always be quoted as a model of accuracy: but, from the necessary want of unity, in consequence of two minds being brought to bear upon the two subjects instead of one, their labour was frustrated.

The progress of science in the present day has rendered it inevitable that the science of animal mechanics shall arise and become worthy of taking its place among the other modern sciences; but its great want is the discovery of some general principle. I believe that I have succeeded in finding the true principle upon which this science must be founded, although it must remain for abler mathematicians and anatomists to fill up its outlines and bring them to perfection. This principle is one of almost universal application; it is the principle of Least one or amost universal application; it is the principle of Least Action. It is well known in its application to inanimate nature; and, with your permission, I shall call your attention to some applications of the principle well ascertained in physics and astronomy before I apply it to the study of animal nature, and particularly to muscular mechanics.

The celebrated Kepler, who died before Sir Isaas Newton's law of the contraction of the principle of the second particularly training more multihaded, discovered the laws of the

The oclobrated Kepler, who died before Sir Iaaae Newton's law of gravitation were published, discovered the laws of the motions of the planets. He discovered the important law that the motions of the planets. He discovered the important law that one focus of the ellipse, each portion of the planet's path being characterised by a velocity of its own. But it is not necessary for me to explain this to you, as Kepler's laws are now well enough known. It is extremely interesting to us, with the light of Newton's genius, to read Kepler's writings, and to see in what manner he regarded his own discoveries. Kepler was a scholar as well as a mathematician, and was charmed with the beautiful fiction of Plato that the earth and planets were great animals, and that the gods Neptune and Mercury, and all the others, were deities subordinate to these greater beings. Kepler was caught with this great fiction that the earth is an animal, and he discusses the question in his book. But he goes further than his master, and endeavours to prove that the earth must be an animal, because—

earsn must be an animal, because—

1. The earth moves uniformly on her axis.

2. The earth describes a particular path round the sun, and no other, moving at a particular velocity. It can only do this by observation of the planetary angles.

3. The earth must be an intelligent animal, for the highest and best of reasons, because it is a great geometer. The earth produces within its bosom many crystals, having certain specific forms, as shown in this diagram of Euclidean solids. specific forms, as shown in this diagram of Lucitata sound. No one can know or make these five solids accept an intelligent geometer; but the earth produces these, and therefore by the nule de optice testatur open, the carpenter is known by his chips, the earth must be a geometer. Kepler goes further still; he discusses what kind of an animal the earth is. It is no lap-dog frisking about our feet in joyful glee, but it is like a lazy and laborious ox, or an elephant if you will. The celebrated principle of least action is well known to astronomers. If I take certain points in the earth's course round the sun I can gather from the principle of least action the path of the earth, even to the millionth part of an inch, on the supposition that it is a lazy animal trying to swim round the sun with the least possible trouble to itself.

the teast possible trouble to itself.

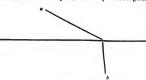
This idea seemed to me to afford a possible key to unlock
the science of animal mechanics. This law is similiar to that
of Kepler, and will be replaced by a higher and better law
when the science is more understood, just as Kepler's laws
when the science is more understood, just as Kepler's laws
what be care replaced by Newton's. It is as follows:—In every
arrangement of bones, muscles, joints, and parts of animals,
the arrangement must be such as to produce a given result
with the least expenditure of labour.

We can applicate with a cartainty as perfect as the next.

We can calculate with a certainty as perfect as the path of the planet the position of the bones and muscles which produce this result. But before proceeding to apply this principle to

this result. But before proceeding to apply this principle to the muscles, I must give you some further illustrations. When a ray of light passes from one medium to another, it always describes a bont path at the junction of the two bodies. If I take a point upon the ray of light in the six and a point in the glass, and if I imagine a fiction of the two bodies. If the property of the property of the property of the This principle has been actually applied by Six Isaac Newton Discovered the property of the trouble to itself, I can predict the path which it will describe. This principle has been actually applied by Sir Isaao Newton to describe the path of the ray of light, and it can be applied to many other branches of science. It can also be applied to intelligent animals like ourselves. I saw this some years ago while watching the movements of a few extremely unintelligent old women—the oyster-women of the Mumbles Harbour as Swansea. These women carried their oyster-baskets down to the oyster-bods empty, but they had to carry them back laden to the Mumbles along a road which had two paths—the alippery shingles and the smooth common. The velocity of these

women on the rough shingles was rather impeded, but I saw then making a tack to some point, which they seemed to guess,



and get to their homes faster than they could have done in a straight line. I do not suppose that these poor women had any more consciousness of their saving themselves troublo than a ray of light passing into a different medium or a planet in its course. I can hardly ould them havy animals, but they were performing great amount of work with the least effort, and they did so by the guidance of Him who makes both blanets and light and the saving th

planets and light.

I shall take another example from organic nature—the well-known cells of the bee. Everyone knows that the cells of the bee are constructed as hexagons, and that the ends of these cells are terminated with rhombic dodecahedra. Plate admired the cells are terminated with rhombic dodecahedra. Plate admired first, the cube was the thought that the terminated represented the carth itself. Another ancient geometer Large represented the earth itself. Another ancient geometer Large man are so struck with this that he called the bee the mathematician; but he says—" I cannot admit that the bee, however, is as expert as man, for we can do more than it." There is in this an unconscious supposition that the bee makes produced with the least quantity. The cell of the bee possesses remarkable properties. Then, The cell of the bee space is produced with the least quantity of wax. It is work with the least trouble to the bee. It costs the bee labour to make wax, and, if it acted upon the principle of least action, it would not only precious the wax with the least trouble, but would not only precious the wax with the least trouble, but

would not only procuse use was the line that the cocommiss the wax in securing the greatest space.

In all these cases, then, you see the same principle. Nature aims at a given quantity of work with the least material. The same principle applies to muscular mechanics. Nature has to produce a certain quantity of muscle to do a certain work; the produces a certain quantity of muscle to do a certain work; the and nourished and austicosts her inhour, and it has to be fed and nourished and austicosts her labour, and it has to be fed and nourished and austicosts her labour, and it has to be fed and nourished and austicosts her labour, and it has to be fed and her principle of least action in, beast quantity of muscle, and the principle of least action in beast and journed and sustant position of all muscular fabres, heave, and journed and suscular tissue. I hope to show you in my next lecture, from the kimbs of the tiger and the wings of the albatross, the complete demonstration of this, and in my concluding lecture I shall show you its action in the heart and other important muscles.

museics.

Before proceeding to apply this principle of least action to nature, it is necessary to obtain the conflictent of museular force. If you take a rope of hemp or silk or irron, or of any other layer than the properties of the conflictent of the constant of the conflictent of force, or many fine search to ten it across. A rope of musel contains many fine search a rope fibre anny be arranged like a rope. Imagine such a rope fibre anny be arranged like a rope. Imagine such a rope of the floor—what weight will it lift from the ground? To determine this cost me twelve years of hard work, and I now place before you the result. The power of the museles of the arm and leg and abdomen are represented in pounds per square inch.

Co-efficient of Muscular Force.

I have only been able to get the result in man, as not even the hairy quadrupeds with long tails will submit to the processes necessary for its discovery. The final result—104 lbs. square inch—is an approximation to the real force exerted in men.

I undertook two extremely laborious classes of observation to determine this co-efficient, for without it I can take no step further in the application of geometry to anatomy. It depends upon two things—first, the force of the muscles during life; and, secondly, to make most careful measurements after death of these muscles.

Now, making observations in life is not so easy as may might suppose. I cannot lift my hand to my head, or wal across that room, without requiring the aid of many macle. And although we can determine the force used in rowing a boat, etc., when we come to distribute that force among the many must-le employed it is difficult to obtain the result. We can only get empirical results, but we cannot get what science demands.

Again, the measurements of the muscles after death presented difficulties much greater than you would imagine often found, in my search for the actions of muscles in life, phenomena presented in disease that solve problems in muscular mechanics. In the contortions of the body produced by the agonising spasms of cholera or lock-jaw, or in the spasms of sponsing spasms of choices of rotes jaw, of in the spassans op-poisoning by strychnia, you can gain information while-helping the sufferer on his bed of pain. You need not bet less kind in helping him while taking note of the efforts which he is exerting; and I must say that, partly for this cause, and partly, I hope, from higher motives, I became personally and intimately acquainted with all the phenomena of cholers, hydrophobia, and lock-jaw. It is necessary for the student of animal mechanics to expose himself to some risk to study the science at the bedside, and to become acquainted with that most interesting class of the community—the poor. It would be wrong to proceed in my lecture without bearing them the highest testimony. I am not acquainted with the poor of England, but I can bear ample testimony to the better qualities of convertible to the conve of our Irish poor. Their devotion to their friends and neighbours in time of trouble is most extraordinary. Those who have quarrelled in prosperity become friends in adversity. Their hearty thankfulness to their benefactors and their brave cheerfulness in facing death are wonderful. In time of sickness and in trouble the extreme devotion of the poor to the poor is m trouble the externe account of the poor to the poor stremarkable. The rich often will give money, sometimes kind words, but the poor always give all they have — their fool, their money, their hearts. I am sure that my experience is that of every Physician who hears me. Those sufferers who have drank the bitter cup of sorrow to the dregs are the readiest to offer a cup of cold water to another in the name of the Divine

My efforta to obtain a co-efficient of maceular force were seconfined to the poor in the Hospitals. I had to come intecontact with a less interesting class—the criminals in our gols. It is necessary for us to know how to work the treadmil, ash how to use the crank. I have tried these, and know them freapersonal experience. My object was to work the treadmil with least trouble to myself, and I assure you I can do so is well as the latest burglar known, with all the skill of first of the control of

amendation of the control of the control of the masses, it is not seen to a masses, a then had to proceed to the examination of the measurements of these muscles after death. My observations of the measurements of these muscles after death, My observations of the force employed were made upon men in health, generally young men in their full vigour, because I was anxious to obtain the co-efficient in healthy muscle. But the examination of muscles after death was made necessarily on persons who were long wasted with sickness. I saw very quickly that if Ireliedupes may be a made to the control of the c

who should attempt to make an examination. Social or private crime is so extremely rare in Ireland that I could hardly find a case for examination. In the majority of cases the crime for a case for examination. In the majority of cases the crime to which accounts a factor of the control of the which accounts a factor of the control of the co this course, because public opinion in Ireland would not authorise the shooting of a landlord in order to find the coefficient of muscular force.

In conclusion, I have shown you that the planet meves in the course which a lazy animal would take; that the ray of light acts on the same kind of instinctive impulse; that the bee makes its cell with the least amount of trouble and the greatest room for storage. The tendons in the legs of animals are constructed on the same principle, and I hope to show you that the muscular organs obey the same law, as if each one of these things were instinct with reason.

Inligs were instinct with reason. by its own intelligence? Does the light travel in its path by its own intelligence? Does the bee build by her's alone? No. Who placed the tendon also in its exact position, enabling its muscle to perform its task? It is not by their instinct or by their intelligence they task; It is not by well in state to you act. There is instinct; there is knowledge; there is foresight; there is recollection; but it is the knowledge, the foresight, Geometrician of the Universe.

ORIGINAL COMMUNICATIONS.

NOTES ON THE PATHOLOGY OF MALIGNANT NEW GROWTHS.

By HENRY ARNOTT, F.R.C.S.,

Assistant-Surgeon to the Middlesex Hospital, and Lecturer on Surgical Pathology in the School.

(Continued from page 568.)

On the third or highest degree of malignancy, in which there seems to be a general infection of the system, growths springing up in various parts of the body, there is not much to be said that is not commonly received without question—for the bearing of the point upon the doctrine of the local or constitutional nature of cancer need not be discussed here. The theory of a constitutional disease with local manifestations is a pure hypothesis, and need not detain the practical Surgeon for its discussion, since such a view should not for one moment deter him from adopting such means as are at his disposal for the removal of such local manifestations. Granted, that a certain taint of the system—a "blood disease," or what not—is the cause of the appearance of the tumours, still it is the tumour which kills.

Mention is, indeed, not unfrequently made of death from cancerous cachexia; but who ever saw such a death? Surely the only obvious causes of death in cancer are the pain, the exhausting discharges, the mental anxiety, the enforced de-privation of fresh air and exercise, and all such unavoidable results of the presence of a rapidly growing malignant tumour.

And it has been well and forcibly said by one who is himself a believer in the predisposing cancerous cachexia, that he who would hesitate about removing a cancerous tumour, because of the constitutional taint underlying it, would show about as much wisdom as the man who, discovering an escape of gas through the wall of a given pipe in his house, should refuse to stop it because, with gas circulating all over the dwelling, fresh oscupes might be expected at any moment, either at the patched place or elsewhere!

It should be mentioned that the secondary growths are always essentially of the same nature as the primary. I lay some stress upon this fact, because it has been stated by writers some stress upon this fact, because it has been stated by writers of repute that this is not an invariable rule—that, for example, of repute that this is not an invariable rule—that, for example, assume the form of encephabidi anneer. This is, I believe erroneous. The secondary formations in epithelions will always be found to present more or less closely the characters of the primary disease, when subjected to microwepic examination, and I have myself seen in the muscular tissue of the beart as perfect "nests" of squamous epithelium as are to the heart as perfect "nests" of squamous epithelium as are be met with in the most typical "sweep's cancer" of the scrotum. In making this statement, however, I am reminded of a case in which a primary cartilaginous growth in the testicle was followed by secondary spindle-cell growths in the lungs. This sounds at first like a contradiction of what has been already stated, but I believe that it may be readily ex-

plained in the following way :

It has been said that there is no pathological product which has not its prototype in some normal tissue of the body, either in adult life or in the embryonic condition. Hence there is suggested a convenient classification of tumours or neoplasma, on the basis of the corresponding classification of the normal histological tissues. Now, the physiological groups are three, of which the first includes all the connective tissues, the second musele and nerve, and the third the epithelia, surface and glandular. It is with the first of these groups that we have mainly to do in the investigation of tumours, and great light is thrown upon the varieties and admixtures of certain growths by a due consideration of the normal development of the tissues from which they spring. Thus, if we remember that the group of connective tissues includes not only fibrous, areolar, and clastic tissues, but also mucous tissue, fat, cartilage, and bone, we shall be prepared to find any given peccaut portion of con-nective tissue which is developing into a tumour producing, at different times or in different spots of such new growth, radimentary fragments of any or all of these structures, which, springing from a common stock, are yet so widely separated in their physical characters. In this way I am in the habit of explaining, in the lecture-room, the curious mixture of cartilage, mucous, and fibrous tissues so often met with in the soft enchondromata of the paretid region. And, in like manner, much of the apparent confusion in certain ossifying sarcomata becomes easily intelligible. And applying this reasoning to such cases as that under consideration, in which a primary cartilaginous tumour gave rise to secondary growths of spiudlo-cell tissue (in many of which, by the way, nodules of true cartilage were developed), we see that the same disposition to morbid development might perfectly well produce a cartilage mass in one place, whose cells, by transplantation, might, without any departure from recognised laws of development, grow into a spindle-cell, a fatty, or an osseous tumour in another part.

As to how this transference of tumour germs takes place, and to the difficulties attending the universal application of and to the dimensions attenuing the universal application of such an explanation to many of the cases of malignancy coming before us, these are questions from the investigation of which we may again take refuge under the cloak of the arowed practical scope of these notes.

Before proceeding to the discussion in detail of the several varieties of malignant growths, it may be well to dwell briefly upon the importance of examining tumours by means of thin sections of hardened specimens rather than by scrapings from the fresh surface. It is unnecessary here to describe the requi-site mode of procedure with this object. Suffice it to say that sate mode of procedure with interopers. Sume it to say that the softest growths can be readily hardened by immersion of fragments in a pale straw-coloured solution of chromic acid, and if this solution be changed daily, three or four days at most will usually effect the purpose. If the chromic acid, most will usually effect the purpose. If the chromic acid, carmine solution, glycerine, etc., be kept in some convenient place with a few watch-glasses, the whole process of cutting sections, are a rew water-gasses, the wrote process of cutting sections, as a staining, and monating need occupy only a few minutes, and which is not amply repaid by the more accurate knowledge of structure so gained. The most useful magnifying power for general employment is the 4-inch objective with a low eye glass, magnifying together about 220 diameters. The sketches illustrating these papers will be cut from drawings made on the blocks of tumour-sections so magnified. But an inch or two-inch objective is also very convenient for giving a general view of the structure, and with a double nose-piece, carrying both lenses, these powers may be varied at pleasure without any loss of time.

In thus advocating the working with sections, however, I am

auxious not to underrate (as it is just now somewhat the fashion to do) the value of scrapings where more elaborate examination cannot be had. There is unquestionably much to be gained from such stray elements as are to be scraped up from the frushlyfrom such stary elements as are to be scraped up to the treasur-cut surface; and when one has to give a diagnosis at once, a very shrewd guess can be made by comparing the naked-ope characters of the tumour and its mode of growth with the appearances presented by its juice. In fact, the moment a tumour is cut out, a scraping of its cut surface should always be examined with a 1-inch glass, for this will often render further examination unnecessary for purposes of diagnosis.

Thus, I have shown in Fig. 1 a tolerably typical scraping from a scirrhous tumour of the breast. Given such a scraping from a tumour having



raping of a freshly-cut scir-

rear the margin of the tumour. If from the centre, little but near the margin of the tumour. If from the extreme edge, smaller cell forms, and more uniform, and consequently less characcell forms, and more uniform, and consequency ress charac-teristic, will be obtained. In like manner, such a scraping, as is shown in Fig. 2, will also throw much light upon the tumour yielding it. Here the juice is less abundant, and one



Fro. 2.—Cell-forms obtain a spindle-cell sarcoma. ne obtain

is at once struck with the comparative uniformity of shape of the cells-not that in the scraping of a spindle-cell sarcoma one necessarily only spindle cells. There are usually some few round and oval forms present, but the one type largely preponderates, and-un ess the central parts of the tumour have been selected—there is much ping change than in the former

case. And, thirdly, I suppose that there could

be very little uncertainty about pronouncing a growth yielding a scanty ground-rice-like juice, with the characters shown in Fig. 3, to be an epithelioma of the squamous variety. Here



Fig. 3.—Scraping from an epithelioma of the arm. Magnified 290 times.

the large flattened cells—some of them cohering by their margins, some clustered tightly in a manner suggesting a fragmentary "nest," and many others seen edgeways, looking like hard broken fibres-are sufficient to stamp the nature of the growth without the necessity of making sections. So, also, the juice of a lymphoma, showing only small round and oval corpuseles with shreds of delicate fibres, but with no large cell forms, would amply justify a temporary diagnosis pending a more elaborate examination.

(To be continued.)

WATER ON AN

ABERRANT FORM OF THE SUPRA-COSTALIS OF WOOD.

By J. BESWICK PERRIN. F.L.S., etc., Demonstrator of Anatomy at King's College, London

In a moderately muscular female subject, aged 65, recently dissected at the Royal College of Surgeons for the primary examination in anatomy and physiology, in noticed a pecular muscle on the left side only, which arose from the cartilage of the second rib along with the corresponding fibres of the pectoralis major muscle. It was about half an inch wide at pectoralis major musclo. It was about half an inch wide at the origin gradually tepring to a tendinous expansion as it passed obliquely upwards and outwards, perforating those fibres of the pectoral which arose from the first rib and sternum; (a) it then passed behind the portio-attollers to be inserted in this observation demotrane, close to the clavicle, and immediately over the subclavius muscle. In this instance, especially only the pectoralis major was very much differentiated. The interval between the clavicular fibres of firm and the performance of the pector of the performance of the performance of the pector of the performance of the performa the pectoral and deltoid was much wider than usual. There the pectoral and deltad was as second interval between the portio-attollens and the sterno-costal fibres, and a third areolar interval between the fibres arising from the mannbrium sterni and the first rib, and those arising from the second rib, cartilage, and sternum, the

those arising from the second rib, cartilage, and sternum, the latter being caused by the passage upwards and outwards of the poculiar muscle already described. The pectoralism saylo had also associated with it an opigastric slip, which arose from the aponeurous of the external oblique opposite the seventh rib, and which join the external oblique of the former nuscle, opposite or the signal opinion of the former nuscle, opposite or the signal opinion of the former nuscle, opposite or the signal opinion of the Compto the survey contains muscle of Wood, which is so execution.

form of the supra-costalis muscle of Wood, which is so persistent in the carnivores and some of the rodents.(b)

CATARACT, AND ITS TREATMENT BY THE SEMILUNAR CORNEAL INCISION.

By JABEZ HOGG.

Surgeon to the Royal Westminster Ophthalmic Hospital, etc.

In placing before the Medical Society of London(c) the results of thirty-three extractions by the semilunar corneal incision, of thirty-three extractions by the semitunar corneal incision, and the experience of my last year's operations, I have been mainly influenced by a desire to show that this well known method of extraction has in no way lost is hold upon the Surgery of the Royal Westminster Ophthalmon the contraction has in fortied the confidence it, largired before the introduction of alleged modifications and improvements, which we were told would supersede the old flap operation, and also that of more modern date, lineal corneal section, both of which that of more modern date, inseal corneal section, both of which were so successfully practicated by Adams, Travers, Ware, Gibson, Guthrie, Mackennie, and others equally well known in this department of Surgery. Indeed, what Mr. Travers wrote of semilunar section some fitty pears ago is quite. The work of semilunar section some fitty pears ago is quite. is by far the most perfect ever devised for the cure of cataract, but it is one of considerable difficulty, and the several modifications which have been at various times suggested owe their origin to the disappointments and defects which operators meet with in learning to execute it with success.

Soon after iridectomy was fairly established in the practice of eye-Surgery, it was proposed to engraft it upon all the operations for extraction of cataract, and this was followed by a (so-called) modified linear extraction, made by cutting out a (mo-cancu) mounes a mear extraction, made by cutting out through the selerotic, excising a portion of iris, and assisting the delivery of the lens by the aid of the book or scop. By such means it was said that the percentage of out hat published attainties bear out these contracts of the property of statistics of, I believe, some 2000 cases give an average of 10 per cent. of failures. I believe that if the statistics of the flap operation in this country were carefully collected and compiled, it would give the same percentage, and not, as has been stated, 20 per cent. But whichever way this may

⁽a) This is a remarkable instance of a muscle passing from a superficial

⁽a) January plane.
(b) My thanks are due to Professor Flower for allowing me the privileged of publishing this.
(c) Paper read March 20, 1871.

ultimately prove to be, it is pleasant to find that the feverish stage of excitement which ushered in iridectomy has entirely passed away, leaving us free to discuss it and judge of it solely on its merits, which are no longer denied in certain cases. In our Profession experience goes a very long way in toning down the most ardent and enthusiastic admirer of any particular operation or mode of treatment; and, however obstinately blind we may be to a weak point, time generally induces a more generous estimate of opinions thus gleaned. I am about to offer you my own experience on the flap operation, but I shall take care not to weary you by a too lengthy description of my cases, or mode of operating, which, in truth, differs very familiar. Neither do I intend to make an extended comparison between it and other methods practised. I shall rather confine my remarks to the results of operations performed at the Royal Westminster Ophthalmic Hospital, between April and Novemher of 1870

It is pretty well known that the mode of performing the operation for the extraction of cataract, like every other in Surgery, has undergone a variety of changes. The instruments also have received various modifications in form and character. Nevertheless, some of the carliest known modes of operating still maintain a place in our are chirarcicus. The well-known couching (needle operation), described by Celsus, and which was in vogue long before his day, is still largely practised in India and other Eastern countries. The removal of a cataract by and other Lastern countries. The removal of a cataract by extraction is of much later date, and was first regularly intro-duced by Daviel, a French Surgeon, in 1747. In his excellent easay on "A New Method of Treating Cataract by Extraction," he acknowledges that he "caught the idea from Petit, who in 1708 opened the cornea to extract an opaque lens, which, having reascended after depression, had fallen into the anterior chamber, and that he felt himself urged to devise some new mode of operating by the want of success which he found to attend couching, and the destruction of the internal textures of the eye disclosed upon dissecting the eyes of those who had been operated upon in that way.

Daviel commenced his operation for extraction by passing a small, narrow, lance-shaped knife into the anterior chamber at smail, narrow, iance-snaped kmile into the anterior chamoer at the junction of the cornea and sclerotic. Curiously enough, Yon Oracle's modified linear extraction is commenced in the same way, and with a sharp, narrow-bladed knife; so that we are asked to return to a knife, and, I may almost say, an operation, which Surgeons of great practical experience long since determined to abandon for that more perfect knife introduced by Von Beer, and which seems to most of us so well adapted for the corneal incision.

The successes of those who have preceded me in this field of Surgery point to the brilliancy of the results obtained by semilunar section pure and simple; and so far as my observation enables me to offer an opinion, I feel certain that, in cases free from local or constitutional complications, extraction by the old flap operation is to be preferred to any other. Moreover, it is the only one which secures a circular movable pupil to the is the only one which secures a circular movahle pupil to the patient—a matter of some moment, as in this way a limited power of accommodation for viewing distant objects is pre-served; while in all the more modern operations, preceded by an iridectomy, the pupil hecomes fixed, and accommodation is very nearly destroyed. Extraction by semi-circular corneal section, then, possesses the advantage of rendering the sight cleaver and quicker than most other methods, while its disclearer and quiezer than most other methods, while the advantages are comparatively unimportant. One of these, particularly dwelt upon by those who do not follow this plan of operating, is that with a large semi-circular section we are very likely to have an escape of vitreous. My answer is that it is not always necessary to make a large corneal section; it should be made of a sufficient size to admit of an easy delivery of the lens, and not larger. The probable size of the lens can generally be fairly estimated by fully dilating the pupil before attempting the operation.

Dilatation serves another useful purpose: it lessens the danger of wounding the iris, and it renders the capsule more accessible, while it facilitates the delivery of the lens. I look upon the instillation of a drop of atropine a day or two before the intended operation as a precautionary measure—in another way, that of determining suspected adhesions; it, therefore, greatly assists a diagnosis, and clears up a doubt as to which operation will be the safest, or attended with the best possible results. A patient having once had a rheumatic attack, is very likely indeed to suffer from rheumatic iritis after the most carefully performed operation. An iridectomy in such a case will often be attended with a greater amount of success than the simple flap operation. In such instances, I do not scruple to

resort to the two operations at one sitting rather than follow the practice of allowing a week to elapse between the iridectomy and the extraction.

In so much, then, my cases may be said to be selected; but this remark applies only in a very restricted sense, for it would be extremely difficult to say so when we have a frequent com-plication to deal with, a fluid vitroous, which might escape detection in any examination. By a careful inquiry into the previous history of the patient, we avoid the risk of failure from diabetic and other causes. I lately had a patient sent up from the country for operation with a fully formed cataract in the right eye, and the sight of the left much diminished. Upon making the usual inquiries into his general health, I discovered what had previously escaped observation—that he was passing a considerable quantity of sugar in his urine. The opacity was due to the diabetic state of the patient, and any kind of modified operation would, in all probability, fail to restore

In my thirty-three operations, three total failures occurred these were due to causes over which it may be fairly said I had tness were due to causes over when it may be narry said I may no control. In the case of Elizabeth II., admitted to the West-minster Ophthalmio Hospital, July 20, 1870, the House-Surgeon reports—"The operation, by the usual flap method, was perfectly successful, and everything went on exactly as could be wished until the third day, when the patient accidentally struck her eye rather violently, which caused considerable pain. Belladonna was applied and warm fomentations. The next morning there appeared a suspicious swelling of the lids, and norming there appeared a suspicious swearing of the ride, and on making a more careful examination the corneal flap was found turned down. Inflammation ensued, and ultimately sloughing of the cornea. In the second case a nervous restless stong mag of the corneal. In the second case a herrous restless patient uncovered the eye and attempted to use it on the second day after the operation; inflammation and separation of the flap followed, and the eye was lost. In the third case failure arcse from an extremely fluid vitreous, the greater part of which escaped during the operation, causing collapse of the eyeball, and probably tearing the retina, as on the third day erysipelatous chemosis of the lids and deep-seated inflammation

supervened, and the eye was lost.

superrence, and the eye was iost.

It by no mean follows that a push results as these interpretation and the eye and the properties of the eye and the eye of the eye and the eye of of the anæsthetic had been inhaled that she became unconot the amentatete had been inhated that she became unconsions and quiet enough to permit me to attempt the section. Having completed this, was a buryon the section. Having completed this, was a buryon the section. Having completed this, was a buryon the section of the section age was removed, and the eye open, but as the patient complained of intolerance of light, it was reapplied. A few days later an of intolerance of light, it was reapplied. A few days later an examination was made, and the eye was found to be going on well, the pupil being quite clear, and she could count fingers. At the end of six weeks, with a convex glass of two and a half inches focus, she was able to read ordinary-sized print with

I may observe that I prefer, for two or three reasons, to operate without chloroform. In the first place, the natural resistance of the recti muscles gives firmness to the eyobal, and the corneal section is made with a rapidity and cleanness, if I may so express it, quite unattainable when an anesthetic is administered. Sickness often follows the use of chloroform, as administered. Sucknoss often follows the use of chloroform, and then the vitroous either escapes, or rupture of the hyaloid membrane or of the internal vessels produces hemorrhage, and secriously compromises the operation. The risk of sickness is, however, lessened by the use of bichloride of methylene.

I look upon loss of the vitreous as a much less serious affair than some operators do. I have repeatedly noticed that the eyeball has been restored to its normal size, after the loss of a considerable quantity, in twenty-four hours; and as complete a recovery made, with a good pupil, in an ordinary period of time, as if no such accident had happened.

Adhesions of the iris are not unfrequently the cause of an escape of vitreous, and, if we fail in detecting them, the operation is not only rendered more difficult, but the convalescence of the patient is liable to be retarded.

This was the case with a patient, aged 52, in whom I met with the additional difficulty of an unusually large lens, and

attachments to the iris at its inferior border. Our House-Surgeon reports of this case as follows:—
"Ellen H., double cataracts, On July 18, Mr. Hogg extracted

very large hard lens from the right eye. In attempting to deliver the lens, extensive adhesions were found to exist, and, on careful pressure being made, a large quantity of the vitreous

on careful pressure being made, a large quantity of the viscous humour excaped. With some difficulty the lens was accoped out. "July 19.—The patient complains of great pain, to relieve which I gave twenty minims of neperathe, which in half an hour afforded considerable relief. The cyclid is a little swellen, but no tenderness of the eyeball. Ammonia and bark mixture prescribed three times a day, and four ounces of brandy in the twenty-four hours.

"25th.—Gradually improving.
"August 5.—With a two and a half inch convex glass, can

read ordinary print.'

(To be continued.)

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

GUY'S HOSPITAL.

OPERATIONS.

Removal of Ecostosis from Upper Surface of First Rib; Amputa-tion of Leg for Injury (by Mr. Birkett)—Amputation of Thigh for Gangrene (by Mr. Cooper Forster).

for Geogram (by Mr. Coper Forster).

On Tassday, May 23, Mr. Birkett operated upon a very interesting case of exostosis. The patient was a girl, aged about 20, who had suffered from beceure pains about the neck and arm for some months, and who had first noticed a swelling on the left side of the neck last January. The Doctor to whom about 10, may be seen to be sufficient to the control of the neck last January. The Doctor to whom about 10, may be sufficient to the control of the neck last January. The Doctor to whom about 10, may be sufficient to the control of the neck last January. The Doctor to whom about 10, may be sufficient to the patient of the neck last January. The January last January las usual—the tumour was not notoday sheeted by the application. Finally, the pain increasing, the girl was sent up to Guy's Hospital, and placed under the care of Mr. Birkett. There was now a hard swelling felt, deeply placed in the left side of the neck, close to the main artery, and with the cords of nerves going to the brachial plexus passing over it so that they could be felt rolling upon the tumour. Mr. Birkett pointed out to the students that the cose was clearly one of exostosis, but the seat of the growth was not so easy to define. It was most likely connected with the first rib or with some portion of one of the lower cervical vertebrae, and it had not been possible to come to a definite opinion as to which of these bones gave rise to it; for such tests as deep inspiration to move the first rib, and motion of the neck to affect the vertebra had neither of them produced any perceptible effect upon the The external jugular vein coursed along its anterior margin, and the incision was therefore made behind the growth parallel to the vein, and as little use made of the knife as possible when once the superficial incisions had laid bare the nervous cords. The carotid artery was found to lie in a groove in the anterior surface of the tumour, and had to be cautiously moved aside. Mr. Birkett remarked that he thought it right to sacrifice the beauty of the specimen to the patient's safety, and to remove the growth piecemeal rather than risk injury to the vessels by cutting through its broad base; for it could now be clearly felt to spring from the surface of the first rib, close to the margin of the scalenus. He secondingly took it away in two bits, and closed the wound, having twisted one or two small bleeding vessels. In his after-remarks, Mr. Birkett dilated upon the instructive nature of the operation for the students, on account of the grave anatomical connexions of the part, and reminding them that the rough surface left by the action of the bonenippers would be speedily smoothed down by the reparative process, mentioned that he had never known an instance of return of a bony growth of this kind when it had been removed by operation, a result which he attributed to the damage caused to the periosteum and other bone-forming tissues about the growth. The sources of anxiety remaining now were the nossible result of the irritation of the nerve-trunks, and the possible result of the irresponding to the pus from a wound in this situation. The growth itself seemed to have an ordinary cancellous osseous structure, with a thin layer of investing

Mr. Birkett also amputated the leg of a man who had met with an accident causing severe compound comminuted fracture of the right tibia and fibula. There was pulsation of the anterior tibial at the foot, but there had been already much hemorrhage, the parts were greatly bruised, and some bone had been already removed. The amputation was performed by lateral skin flaps and a circular sweep of the muscles, a by lateral sain haps and a circular sweep of the magics, a method usually practised in this Hospital, and the arteries were secured by torsion, great delay and difficulty being occasioned by the retraction of the vessels out of reach of the forceps, so that an extra bit needed to be sawn off the fibula-

before the vessels could be secured.

Mr. Cooper Forster afterwards amputated a thigh in the same manner. The patient was an old man, with gangrene of the foot and leg reaching half-way up to the knee. The line the foot and leg reaching hair-way up to the foot and leg reaching hair-way up to the foot and leg reaching hair-way up to the knee. There was very little bleeding, the larger arteries even in this position being mostly blocked. The dresser twisted the vessels and sewed up the flaps. We learned that a few days before Mr. Forster twisted the femoral artery in a similar case, in which the vessel was highly atheromatous—brittle indeed, with chalky notules. Two and a half turns sufficed to safely close that artery. The rule at this Hospital is never to twist the end of the vessel completely off, but to turn it slowly round and round until the coats are felt to "give" under the forceps, and this in healthy large arteries is accomplished in four or five complete twists.

Amongst other recent Surgical experiences here, there have been two cases of excision of joints, in which a stream of carbolic acid solution was kept constantly playing upon the parts during the operation, and the after-dressings conducted careduring the operation, and the after-dressings conducted exer-fully after Luser's method, with the result of securing primary union in both instances. Mr. Bryan has also have evid was shot through the arm last week, at 600 yards' distance, the conical bullet comminuting the bone and forming typical "apertures of entry and exit." The wounds were closed with benzoic said dressings, and hitherto the case has progressed without an unfavourable symptom, the dressings not having

been touched as vet.

MATER MISERICORDIÆ HOSPITAL, DUBLIN.

CASE OF BRONCHOCELE CAUSING URGENT DYSPNŒA-OPERATION-RECOVERY. (Under the care of Mr. P. J. HAYES.)

[Reported by Mr. ROBERT P. CURRAN.] E. W., age [8, a healthy-looking grit, was admitted into the Mater Misericordise Hospital on January 10, 1870, and placed under the care of Dr. Curran. She was suffering from extreme difficulty of breathing, accompanied by strider, the consequence of pressure upon the trucher accreted by a large bronchoeele, which, the patient stated, had very rapidly increased in size. The chief bulk of the tumour occupied the middle line of the neck, the median lobe of the thyroid body being the part principally hypertrophied, though the lateral lobes were also much enlarged. She noticed increase in the size of the thyroid during three years, and Dr. Curran prescribed for her at different periods, but, about six months previous to her admission at the Hospital, rapid growth of the tumour began to cause difficulty in breathing, and as this increased she was cautioned that it might become necessary for her to seek relief by opera-tive means. During the earlier period of her stay in Hospital various measures were tried to reduce the size of the bronchocele, relieve any tendency to laryngede spasm, and cause re-appearance of the menstrual discharge, which had been absent for some time. Despite of Medical treatment the difficulty of breathing became more marked each day, on February 25 amounting to orthopness, with total loss of rest, and accomamounting to orthopions, with total loss or rest, and scorin-panied with difficulty in deglutition, so that no solid food could be taken. On the 26th a consultation was held, at which it was decided to postpone operative interference, to apply ice to the tumour, and to administer internally lobelia apply too to the tumour, and to administer internally society, and bromide of potassium. The tumour was at this times very large and tense, extending in front of the thyroid eartilage above, and close to the supra-sternal noteh below; it was apparently very vascular, and large veins ramified over its auterior surface. Mr. Hayes being the Surgeon on accident duty, the girl was placed in his care, and on the afternoon of the 27th, as her condition was becoming worse, he decided at 4 p.m. to divide the tense cervical fascia covering the tumour, so as to allow the gland to start forward, and relieve the traches from dangerous pressure. Mr. Haves made a vertical

incision three and a half inches long over the middle line of the tumour; this incision was carried down as far as the sternum. and much of the thickened subjacent fascia was carefully divided. The hemorrhage was trifling, not exceeding eight or nine ounces of venous blood, and as the wound allowed the tumour to protrude with a fair degree of relief to the patient, tumour to protrume with a lair agree or react to the patient, further proceedings were postponed, principally on account of the great difficulty experienced in operating by artificial light when the condition of the patient required that she should be supported in a sitting posture. At ten o'clock the same night the girl was decidedly worse, for the improvement which followed the operation soon gave place to symptoms of exhaus-tion, the pulse became small and intermittent, the respiration hurried; but there was no lividity of the face or lips. The patient being so weak, stimulants were prescribed, and taken satisfactorily, as the difficulty in swallowing was much less than before the operation.

Fobruary 28.—Patient still weak; pulse small, but not intermittent; breathing much easier, but requires to be more fully relieved. Mr. Hayes further and completely divided the fascia, and to some extent the sterno-hyoid and sterno-thyroid raseia, and to some extent the sceno-nyold and sterno-thyroid muscles, until the thyroid gland was freely exposed, the patient immediately expressing herself as feeling such relief that she was able to lie down with comfort. Nine hours after the was able to he down what eathers. Whe hours after the second operation the pulse gained strength, and became slower; the breathing easy; no distress in swallowing; and the patient was able to sleep well. Dr. Curran again took charge of the

patient. March 1.—Breathing continues easy; pulse 140, small and weak; tongue furred; respiration 40 in the minute; some bronchial rules audible over the chest.

Frontain rates another over the caused by mucus in the air passages, accompanied with pain in the left side, cough, and a sones of constriction over the anterior part of the chest. Beef-tea and stimulants taken freely; pulse 120; tongue still conted

3rd.—Patient feels better to-day; hoarse cough, with mucopurulent expectoration; pulse 120; tongue furred.

4th.—Lost about nine ounces of blood last night from the
wound, caused by ulceration extending to a small artery; the
bleeding ceased on the application of cold; pain in the chest still

continues, but the cough is much better.

6th.—Breathing easy; cough slight; wound suppurating freely; treatment stimulating and tonic.

The patient steadily improved, and on March 20 was able to sit up. She was able to leave the Hospital on April 12. The catamenia, which had been very irregular, became established. The bronchocelo gradually diminished in size, the wound cicatrised quickly, and the tumour became quite soft. She visited the Hospital occasionally, but no longer required

Medical treatment

Menucal treatment.

Remarks.—The particulars of this case are interesting in many respects. The girl was the child of healthy parents.

She resided in a dry. elevated locality, favoured with the name of "Constitution-hill"; and she enjoyed very fair health, save in the particular that the menses were always irregular, and, for a time, suppressed. With irregular mentruation, enlarger ment of the thyroid body appeared, and, during the period that, interesting properties of the grant of the critical facility much that, interesting growth of the certical facility much that, interstitual growth of the cerrical fascia being much solwer, the tumour was caused to press upon the traches, and less directly even upon the cosophagus. Owing to the mecha-nical cause affecting injuriously so important a function as respiration, and causing the whole organism to feel consequent ill effects, we may readily understand why renedies failed at first to restore the uterine functions. Yet, when, by mecha-nical means, the pressure was removed from the traches, and the system generally became improved, then, nader skilful Modical treatment, the uterine functions became active, and, in turn, affected favourably the abnormally enlarged thyroid. The operation of dividing the tissues covering the median portion of a hypertrophied thyroid body reads as a very simple proceeding-in practice it was found by no means easy of accomplishment, and for the following reasons:—Firstly, the surface of the tumour was remarkably convex from above downwards, especially near the upper end of the sternum, where the sense of pressure was most marked, and where the knife required to be most carefully though extensively used, Secondly, the patient could not tolerate the recumbent position, owing to extreme dyspnos; and the operator had to kneel during the performance; also, it was difficult to expose the lower angle of the wound to a sufficient amount of light. Thirdly, enlarged veins had to be avoided; and, when this was impossible, they were doubly ligatured and then divided.

Fourthly, though the patient displayed admirable fortitude throughout, yet the almost convulsive respiratory movements necessitated very guardel action on the part of the operator. The division of the cervical fascia in cases of bronchocele is usually viewed as a palliative proceeding; in this instance, however, it proved more or less curative, as has been already pointed out. Again, it is an operation that has been rarely pointed out. Again, it is an operation that has been rarely performed, if we may judge from the absence of recorded cases. It may not be out of place to mention here that, at the time of the operation, the tumour resembled, both in form and bulk, half of a fair-sized melon. Now (May, 1871), it is hardly the size of a small orange.

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Medical Times and Gazette.

SATURDAY, MAY 27, 1871.

THE BRITISH MEDICAL ASSOCIATION.

A MEMORANDUM is in circulation amongst the Members of the Council of the British Medical Association, which, whatever its worth as a statement of facts, may at least serve to point a moral. The paper we allude to is a draft for a report by the Sub-committee of Finance and Organisation of the British Medical Association, drawn up by Mr. G. F. Hodgson, of Brighton, who proposed the formation of the sub-committee. If this draft memorandum contain an accurate representation of the organisation and financial condition of the British Medical Association, it is at least clear that there is ample room for its improvement. The allegations of Mr. Hodgson and the Sub-committee, with whom he acts, are that certain resolutions appointing committees on various subjects passed at the annual general meeting of the Association have not been carried into effect by the proper officer of the Association; that no minutes had been kept of the most important business meeting held during the annual meeting of the Association; that a collector, for whom no guarantees had been obtained, had absented himself, and it had been discovered that there was a deficiency to the amount of £500 in his accounts; and that the number of members suspended for non-payment of subscriptions had yearly increased, so that the amount of arrears at the end of 1870 amounted to £2103. Now, we know nothing as to the truth of these allegations. We presume that they will be made the subject of full inquiry by the Association; but the fact that they have been brought thus prominently forward at least is evidence that the working of the Association does not give satisfaction to certain of its members, that its system requires supervision, and that its present condition evidences a great want of cohesion and stability. In this we see nothing at which to be surprised. Experience teaches that no great professional or scientific association can be long held together unless it acquire substantial property.

by Charter or Act of Parliament sequire a legal standing. These are the advantages which have given stability to the great Medical institutions of this country-institutions which it is now the fashion to decry, but which have made the Medical Profession what it is, and have separated it from the fraternity of barber-Surgeons, simplers, and quacks. It must not be forgotten that every one of our Medical Corporations has begun in one way. Certain men carrying on the same business unite and form an Association for the defence of their rights and the promotion of their branch of knowledge. After a time, to become a member of one of these implies a certain status. Society prefers Practitioners guaranteed by membership. Then Government gives a charter, and endows the chartered Corporation with privileges, and commits to it the exclusion of ignorant and unworthy persons. But to all intents and purposes the Colleges remain in their original function, as the Professional centres of thought, and charged with the education and protection of their members. Time flows on ; abuses set in; and subordinate societies start into existence to reform the errors of the corporate bodies; but the subordinate societies follow the same course, and can nohow be ensured against corruption, jobbery, favouritism, and drowsiness. There are in the British Medical Association no greater guarantees for purity and efficiency than in the College of Surgeons. But the Association has missed its point. In lieu of helping, by liberal expenditure in the cause of Medical science, to promote the interests of British Medicine, the British Medical Association has sunk into little more than a commercial speculation for the publication of a weekly Medical journal-of acknowledged excellence, truly, but claiming and possessing no higher distinction than that of an ephemeral scientific newspaper, competing with, but in no way surpassing, other papers of the same class. Again, the British Medical Association has to a great extent lost its original character, and has failed of its original purpose. It was started to meet the want felt by provincial Medical men of a common meeting-ground, where they might exchange the results of their labours and experience, get rid of the insulation implied by provincial Medical practice, and promote the science which they knew they cultivated as ardently and as successfully as their brethren in the metropolis. But the Provincial Medical Association no longer exists; it has been changed into the British Medical Association, with London virtually for its head-quarters, a journal published in London reflecting metropolitan rather than provincial Medicine and Surgery, and with a Metropolitan Branch which undoubtedly overshadows and leads the rest of the Association. We may be told that one of the chief officers of the Association resides at Birmingham. This is true; but the sasco revealed in Mr. Hodgson's paper is a telling commentary on the system which places a general secretary at Birmingham, and the head-quarters of the Association in London. The Provincial Medical Association existed for a definite and needed object-the cultivation of British provincial Medicine and Surgery. When it became the British Medical Association it abandoned this object, lost its special character, and seems to be gradually but surely sinking into a mere publishing firm which invites its subscribers

CHINESE MATERIA MEDICA.

to an annual picnic,

It is a matter of some interest to the student of the history of Medicine to know the direction which the art of healing has taken amongst a people like the Chinese, too often set down in a rough way as the very antipodes of European peoples. The elucidation of the subject of Chinese Pharmacology, as an important branch of it, has been left very much to the occasional labours of such men as Clever, Keferstein, Tatarinov, and the solitary English investigator Hanbury, who have given only occasional attention to what seems to be the concrete and only definite form of Chinese Medical study. It is, therefore, with peculiar pleasure that we hall the publication of a work(a) which promises to afford ample opportunities to those who, in the absence of a knowledge of the Chinese language, have been checked at this point of their studies in what we may be permitted to call Comparative Pharmacology.

The author of this interesting work is apparently a practical man, who, enjoying the advantages of long residence and direct communication with the natives of the "middle kingdom" of China, gives us the results of his examination and employment of the common drugs of the country. We gather from the preface, which precedes the alphabetical arrangement of the plants, minerals, and animal substances employed in Medicine, that several objects are desired to be met by this work. In addition to the introduction to the notice of European students of these sample drugs of the Chinese Pharmacopusia-as one, at least, of the works largely quoted by Dr. Porter Smith may be called-foreign drugs, as quinine, chloroform, and ipecacuanha, are introduced into the list, and fitted or found with Chinese names.

It may be hoped that in this way interchange may take place between the two countries of their medicinal products, though vastly, we expect, to the advantage of the Chinese. Such a country as China, with some eighteen provinces worthy of being ranked with European countries as to particular extent and peculiar dialect, and a great variety of climate, must have a rich flora.

Of the benefits of this flora we hourly partake, in the shape of that dietetical and medicinal article, tea. If Dr. Smith shall have made known any suchlike substances as tea, rhubarb, and mnsk, which western countries draw with so much advantage from China, his labours will immortalise his name.

The Chinese Medical Faculty seldom employ mineral substances internally. Safe hitters, mild demulcents, sweet diluents, gentle purgatives, and warm derivatives make up the sum of their Medical substances, generally derived from the imperial kingdom of Flora. Many of the drugs used by the Chinese Faculty are the simples of a past generation of Practitioners, or the domestic nostrums of the country people of the present day in Europe. Chemicals, such as calomel, corrosive sublimate, sulphuret of mercury, Æthiop's mineral, minium, white lead, sulphuret of silver, and a few other such drugs, are made on a large scale for use in the arts and in Medicine. Cups of rhinoceros horn, melted sulphur, realgar, sulphurised silver, and other materials are used to impart medicinal properties to wine or water by Chinese Doctors.

Many interesting references to the Sanscrit names of Indian drugs or the Sanscrit synonyms of drugs common to both India and China, are met with in the Pun-to'au-kaung-muh, a work largely drawn upon by Dr. Smith in his "Contributions." The peach, pear, and many other trees and plants were introduced into India from China, and much interesting information will be found in Chinese works about Indian drugs imported into China along with Buddhism, the common religion of the two great countries.

The study of Chinese herbals reveals many curious resemblances between the popular and Professional notions about plants held by Eastern and Western peoples. The Sedum, or common stone-crop, called Donnerblatt in German, is thought by some to ward off lightning. The Chinese plant these same Crassulaces upon housetops, with the notion that they ward off fire. Opium is a drug now produced on a large and increasing scale in China, and might well be exported to England, where the price of this drug is something dreadful. It is hardly necessary to say that a lot of abominable messes are recommended in Chinese works on Medicine to be employed in

⁽a) "Contributions towards the Materia Medica and Natural History of China, for the use of Medical Missionaries and Nature Medical Students." By Prederick Porter Smith, M.B. Lond. Trübner and Co., Paternoster-row, London.

orthodox practice. Such substances are still employed in the rural districts of Western countries by the old women, who readily prescribe nasty remedies for all sorts of evil diseases.

THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

AT the meeting of the Association on the 20th inst.—the final meeting of the present session-two papers were read. The first was read by Dr. Ballard for the author, Mr. F. W. Lowndes, of Liverpool, upon the subject of "The Interment of Still-born Children." Mr. Lowndes, in this paper, detailed his observations as to the arrangements in force for the burial of still-born children at the cemeteries belonging to Liverpool. The special points to which he directed his attention were-the number of children interred as still-born in the year 1868; the fees required in the case of still-born children and those that had lived; the regulations, especially as regards certificates; and the opinions of the cemetery officials regarding the present system. In the year 1868 he ascertained that at five cemeteries 864 still-born children were interred, but remarked that this is by no means to be taken as the total number of still-births actually occurring within the borough, as there are many others of which he could obtain no account. He was satisfied that the total number would considerably exceed 1200; and, taking the number of births annually in Liverpool as between 19,000 and 20,000, this would give a ratio of about 6 per cent--2 per cent more than the highest averages of foreign countries. The general result of his inquiries were briefly as follows :-- 1. That at all the Liverpool cemeteries there is a difference, ranging from 1s. 6d. to 7s. 6d., between the fees required for interring a still-born child and one which has lived, which is an inducement for fraud. 2. That while a certificate is always required, a large number, probably about one-half, are received from midwives, and of these many were from the lowest and most ignorant women. 3. That no penalty attaches, either under the Registration Act or any existing law, to any person giving a false certificate. The only way hy which anyone can come within the law is when a sexton or other person inters as still-born the body of a child without a registrar's order, wilfully, knowing at the same time that the child was born alive. 4. In Liverpool we see the result of having a system of check, as in the case of the parish cemetery, the result being the detection of fraud, falsehood, and foul play. The suggestions of the author for amendment are-1. That the registration of births should be compulsory. 2. That still-born children should be registered. 3. That, when no Medical certificate was produced, the midwife in attendance should, in conjunction with the father of the child or occupier of the house, register the stillbirth, and be liable to the usual penalty for making a false declaration.

A bundle of curious original certificates from midwives was exhibited; among them were the following:---

"60 Mount Plesent Liverpool this is to Sertify that i a tended Annie Croot No 26 Chapell Lane a Boy Primature Birth Still Born M D Jones Sep the 22 Born this morning 10 ockock"

"SepterBer 22 1807 i here serify that i Broght forth a still Born Bady Be longing to Merrey poole Wife of thoumes poole a sailor no 2 court Southwell street

i Misses haetherston Mid Wife "

"I hereby scrtify that I Delivried Elibath Duneen Wife of William Duneen No 27 Graften street on the 12xt of A still Born Male child Mrs Watson

Midwife To The Ladies Chariety "

In the discussion which followed, Mr. Holland, of the Burial Acta Office, said that he did not see how still-births were to be registered; for where was the line to be drawn between a miscarriage and a still-birth? He thought that the temptation arising out of the great difference in charge for the burial of a still-born child and one that had just breathed, was too great for poor people to withstad. He suggested that this might be removed by burying young babies without formal service at reduced fees. With respect to the registration of still-hiths, Dr. Ballard pointed out that there could be no very scrious practical obstacle, inasunch as such births are registered as a matter of course in New York, as well as in some places on the Continent; and that, although it may be difficult to drawn between miscarriage and still-birth which might suffice for the purpose of registration.

The next paper was by Dr. Letheby, on "The Quality of the Water-supply of some Large Cities and Towns of England, in relation to their Sanitary Condition." This was a long paper. and consisted of a commentary upon a series of letters in the Scotsman, by " A Physician." Dr. Letheby maintained throughout the superiority, in a sanitary point of view, of a hard-water supply to towns over a soft-water supply. His arguments were based first upon physiological considerations. He maintained that the earthy matters in the hard waters were essential elements to be provided for the construction of the osseous tissues, and that they supplied much of the calcareous salts necessary for the nutrition of the frame, and that by repudiating their use we should be throwing away one provision of nature for this purpose. No one could say that a hard water was not far more agreeable to drink than a soft water, while it certainly was cooler, and also quenched thirst better than a soft water. He maintained, in the second place, that the finest specimens of the English race were to be found in regions where the waters were hard, from flowing ont of or over calcareous strata. The same was the case with cattle and horses-witness those reared in such counties as Durham and Leicester, and the horses of Flanders, while the Shetlands only produced a race of ponies. But his principal argument was that on distributing the towns of England, so far as their water-supply was known, according to the degrees of hardness of the waters, the average of the deathrate was least in those towns supplied with hard water, and increased as the waters became softer and softer, until it was highest in those where the water supplied was most soft. The following table was exhibited in proof of this assertion :-

Tables showing the Quality of the Water-supply as EEGARDS HARDNESS, AND THE DEATH-RATES IN SIXTY-FIVE ENGLISH AND SCOTCH CITIES AND TOWNS.

Hardness over 10 Degrees-

rdness over	10 D	egree.	-					
Places.							ath-rate er 1000.	Degree of hardness.
Banbury							21	16-9
Bedford							19	24.3
Birmingh	am						27	15.5
Bristol							28	17:1
Canterbu	rv						23	18.0
Cheltenha	ım						19	12.0
Congletor							23	11.9
Croydon							19	16.4
Donl							20	18-4
Derby							24	14.4
Dover							20	17.0
Guildford							19	18.5
Leamingt	on						20	18.5
Lincoln							20	11.0
London							24	15.5
Newcastle	and	Gat	eshead	d.			26	19.5
Norwich							25	14.5
Rughy							19	11.1
Runcorn							21	17.7
Southport	Ł.						19	19.5
Sunderlan	d an	d So	ath S	hield	s .		24	12.6
Wakefield							23	16-0
Warringt							24	12.7
Worthing	,						18	17:3
York	٠.						23	14.3
1011	•	•	•		•	-		-
		Av	rage				21.9	16-0

Pince i.					y	eath-rate er 1000,	Degre of hardne
Herdness from 10	to	6 De	reca-	-			- Inni-
Accrington						29	6.9
Ashton-unde	T-L	ene.				27	9.9
Birkenhead						19	8-3
Carlisle .						23	6.1
Durham .						23	7.5
Edinburgh	- 1					25	7.0
Leeds .			- :	- :		28	7.5
Leicuster .						25	9-4
Leith .	•				:	23	7:0
Liverpool an	a iv	out D.	orhy	- :		28	9.6
Macclestield			a.			25	5.9
Northampton		:				24	7.2
Northwich						22	
Preston .				*			9.8
St. Helens						27	6.3
Wigan .						26	8.0
Worcester						27	8:4
Worcester	٠					23	10.0
		verag				24-9	8.0
Hardness from 6 to	2 1	hegrees					
Blackburn						29	4:1
Bolton .						27	3.4
Bury and Rad	delif	fe .				23	3.8
Chorley .				- 1	- 1	22	3.8
Chorlton .				- :		24	2.5
Dundee .				- 1		29	4:3
Manchester as	nd S	alford	1			29	2.5
Maryport.						24	2.3
Oldham .					:	25	4.9
Over Darwen		:	•	:		34	4.4
Paisley .	:	:				28	2.9
Plymouth	•					24	3:0
Preston .	•		•			27	
Rochdale .				-			5.5
Stockport.						24	3.6
Clockpott.	•		•			26	5.8
		erage				26.3	3.8
Hardness less than :	2 De	grees-	_				
Aberdeen .						26	1.4
Cockermouth						33	1.5
Glasgow .						31	0.6
Greenock .						32	1.3
Lancaster						30	0.6
Perth .						26	2.0
Sheffield .						28	2.0
Whitehaven					÷	22	1.0
	Av	erage				28.5	1:3

		gree of	Ha	rdness.		rate	per 1000	Average Degree of Hardness.	
Over							21.9	16.0	
10 to							24.9	8.0	
6 to 2					٠		26.3	3.8	
2 and	un	der					28.5	1.3	

Several speakers, among whom were Dr. Tripe, Mr. Wanklyn, and Mr. Holland, criticised Dr. Letheby's inferences as drawn from this table, pointing out that several of the towas indicated as having a high death-rate with soft-water supply were motorious for their general unannitary condition; that several of them were scappt towns; and that before any inference could be drawn from such a tabulation, the causes of death in the several towns should be distinguished, together with the agree of the populations both living and at death. The preference of hard water over soft water for drinking was held by one speaker to be a mere matter of habit, and by others it was shown that the problem was very complex, and not to be solved by calculating any one factor.

THE SMALL-POX EPIDEMIC

Tur fatal cases of small-pox in London, which in the previous week had declined to 232, rose again last week to 267. Distributing these, with the Hospital deaths, into districts, the West furnished 16 fatal cases; the North, 79; the Central, 29; the East, 61; and the South, 101. Although in every district except the West there has been an increase over the previous week, proportionally greatest in the North and Central districts, yet in none, except the Central district, have the numbers of the week before last been exceeded. The Registrar-General further tells us that the greatest fatality from small-pox again prevailed in Somer's-town, St. Pancras, Bethnal-green, Mileend Old Town, Southwark, Walworth, Lambetli, and Battersea. In the latter sub-district, during the past seven weeks, no less than 96 deaths have been referred to small-pox, showing an annual rate of mortality from this disease alone equal to 13 per 1000 of the enumerated population in April last; the deathrate from small-pox in the whole of London has averaged 4 per 1000 during the six weeks ending last Saturday. He adds, for our comfort doubtless, that, high as this death-rate is, it is still small compared with that which prevails in the large Dutch towns, and in many other parts of the Continent. Referring to the provinces, he gives 50 as the small-pox deaths last week in Liverpool, 14 in Newcastle, 10 in Manchester, 9 in Sunderland, and 5 in Salford. Its fatality has declined in Croydon, Brighton, North Meols, Stockton, Hartlepool, South Shields, and Llanelly. In Great Grimsby the disease became epidemic towards the end of last quarter, causing 18 deaths; in the six weeks ending the 13th, no less than 70 were registered, showing an annual death-rate of 21 per 1000 upon the enumerated population at the recent census. The Registrar also reports that 17 more fatal cases occurred between the 13th and 17th inst. This epidemic approaches in severity that which has been raging in the large Dutch towns with which Great Grimsby is in intimate communication.

At Stockwell and Homerton, marquee tents are being used for the accommodation of the overflow of cases at the Hospitals. At Stockwell they are used, like the Hospital corridors, for those patients who have passed the acute stage, and Dr. Barbour reports of them favourably. At Homerton there are six marquees crected, and acute cases are being treated in them. Six beds are put into each, the allowance of cubic space being thus 660 feet for each patient. In one tent Dr. Collie had placed twelve children. With the two sides and the two ends of the tent open, and a free flow of sir through, there appeared nothing objectionable; but the children's tent, open only at the sides, had, when we visited it, a decidedly offensive atmosphere. There certainly were two very severe cases in it at the time; but, this offensiveness being one of the concomitants of bad small-pox, there is the more reason for doubting the propriety of treating such cases in a tent with other patients. where a ventilation cannot be maintained sufficient to ensure a proper purity of the air within. When the tents are closed at sight the ventilation must be of a most imperfect description, and the danger to those treated there must be commensurately enhanced. We think that the beds in each tent should be reduced in number to one-half, if acute cases are to continue being treated in them. We hear that Dr. Collie proposes putting some of the scute cases out of doors altogether in the day-timeprotecting them, we presume, in some way from the direct rays of the sun. To this we see no objection-quite the contrary, The patients would probably be benefited, and the tents purified by freeing them from their tenants for several hours daily. Each tent has its own nurse. The bedsteads are folding iron bedsteads, and the beds are of flock; each patient is provided with extra blankets-a necessary precaution, since Dr. Collie finds that the cold at night penetrates into the tents.

THE WEEK.

In the list of promotions in, and appointments to, the Order of the Bath, on the occasion of her Majesty's birthday, published in the supplement to the Gazette of Friday last week, we notice that David Dumbreck, Esq., M.D., C.B., has been promoted to be an Ordinary Member of the Military Division of

the Second Class, or Knights Commanders of the Most Honouralout Order. Sir David Dumbreck, K.C.B., whose long and valuable services are than fittingly rewarded, will receive the congratulations of his Professional hrethren both in and out of the army. The following Medical officers have been appointed Ordinary Members of the Military Division of the Third Class, or Companions of the Order:—Inspector-General of Hospitals Joshus Paynter; Deputy Inspector-General of Hospitals Richard James O'Flaherty; and Surgeon-Major John Ashton Bostock, M.D., Scote Fuellier Guards.

The election of Members of Council of the Royal College of Surgeons is to take place on Thursday, July 9. At present it appears there will be four vacancies to be filled. Mr. Cock, whose presidency last year gave him an extra tenure of office, now retires, and with him Messrs. Busk, Lane, and Le Gros Clark, whose terms of councillorship have also expired. These gentlemen have, of course, the option of presenting themselves for re-election, and some, if not all, will most certainly again ask the suffrage of their Fellows. At present we believe their intention has not been made known, unless, indeed, Mr. Lane's refusal of the vice-presidency of the College denote a wish to slip off the coils of office. We have heard the names and claims of three new candidates principally canvassed. They are Mr. Spencer Wells, Mr. Critchett, and Mr. Holmes Coote. The first-named of these gentlemen has claims to the highest honours of British Surgery. Ovariotomy is the one great contribution of British Surgery to the healing art which will especially mark the nineteenth century, and Mr. Spencer Wells is the British Surgeon who, par excellence, has demonstrated that it can be performed with the practical certainty of success in a large percentage of cases. Next to the discovery of anæsthetics, which cannot be placed to the account of the pure Surgeons, ovariotomy appears to us to be the Surgical achievement of the age, and, as we have said, no Surgical honours can be too high for the man who has been the main instrument in establishing the operation. But, besides this, Mr. Wells has other claims, which must not be overlooked. It is well known that for a long period he conducted this journal with skill, judgment, and fairness, which secured the favourable verdict even of opponents. He is well acquainted with the state of Medical politics, and with the different motives which are at work in directing them. We believe that no fitter or more representative man could be found amongst the Fellows of the College to fill a seat in the Council; and, to judge from the large number of votes he obtained last year, we think that our opinion will be shared by a majority of the Fellows.

The scheme for a Conjoint Examining Board of the College of Physicians, to which we drew attention last week, is still, we understand, under the consideration of the other Corporations. The difficulties to which we drew attention last week do not, on closer inspection, it seems, resolve themselves into thin air. We conceive that, if the scheme is not to follow its predecessors into the land of shadows, it must be radically modified. The power which it would give the Universities is disproportioned to their influence in the Profession. They are not Medical institutions in the sense in which the Medical Corporations are Medical institutions; they exercise no more influence over the Profession of Medicine than they do over the profession of the law or engineering. The four Universities together in a year do not confer so many Medical diplomas as one of the Corporations grants in a quarter, whilst one of them very rarely gives a Medical degree at all. It is not to be expected, therefore, that the Corporations will quietly consent to give the Universities so large a share in the government of Medical examinations and Medical education. It is conceded on all sides that the Universities should have some representation in the matter upon certain conditions; but to give them so many as four votes in a committee of ten

is, as we have said, to give them an amount of influence quite disproportioned to their just claims. Besides this, the scheme, as it stands, is too artificial. It has not the simplicity which promises success. The Comnittee of Examinations which it proposes, unless its action were very carefully defined, would certainly be in frequent collision with one or other of the Medical Licensing Bodies, which, acing under Royal Charter or by Act of Parliament, would have agal and definite powers and rights which it could not relinquist. We firmly believe, however, that even now, out of the schenes which, one after another, have been framed, discussed, and cast aside, one might be constructed that would meet the requirements of the case. be acceptable and useful to the Profession, and, at the same time, not diminish the prestige or prosperity of the timehonoured institutions which represent Medicine in the eyes of the law and of the public.

A case of suicide by swallowing an ounce of chloroform is reported from Australia, which presents some points of interest. The deceased man was suffering from delirium tremens, brought on by a long course of drinking, and in this state procured and swallowed the chloroform. He immediately became insensible. His eyelids could be opened and pupils touched without the slightest proof of sensibility being manifested. When things were at the worst, and the man apparently dying, Mr. Gillben and Dr. Neild, the Medical men in attendance, determined to try the injection of ammonia according to Professor Halford's plan of treating snake-bites. Ammonia, in the proportion of one part to two parts of water, was injected four times into the veins of the arms. Two drachms were injected altogether. The effects were most promising. Sensibility returned, and after five hours the patient could sit up and talk. He died, however, suddenly next day, apparently from syncope. The brain was found to be highly congested, and smelt of alcohol. The liver was diseased.

A complaint was lately forwarded to the Poor-law Board by one Mr. John Stallard, of Worcestor, against Dr. William Woolward, Poor-law Medical Officer of that town, on the ground that Dr. Woodward had advised a poor woman, who was very ill, to apply to the Worcester Dispensary for relief, in place of attending her himself on account of the parish. Dr. Woodward's reply to the charge was a complete one. The woman had not procured an order for parochial Medical relief, and had been previously attended by one of the staff of the Dispensary. The Poor-law Board very properly dismissed the complaint by informing Mr. John Stallard that the circumstances did not render their interference necessary.

Much interest is felt in the forthcoming elections at St. Thoman's Hospital. We hear that Dr. John Harley and Dr. Payne are likely to be candidates for the Assistant-Physician-cies, and for the Assistant-Surgeoncies Mr. Wagstaffe, Mr. Arnott, and Mr. Bellamy, Mr. Wagstaffe has the claim of long service at the Hospital, a claim which we should think the Grand Committee will not overlook. There are only two fresh appointments to be filled up.

At St. Mary's, the Medical Committee having determined to support Dr. Meadows for the Obstetric Physiciancy, Dr. Edis has retired from the contest.

We are informed that the authorities of University College Hospital do not at present intend to make the contemplated appointment of an Assistant Obstetric Physician.

BOYAL MEDICAL AND CHIRUBOICAL SOCIETY.

Ox Tucsday, June 13, we are promised a Surgical evening at the Modleal and Chirurgical Society of unusual interest. The meeting will open with a paper by Mr. Papet on "Removal of Tumours of Bone," and a paper by Mr. Spencer Wells is to follow on a "Fourth Sories of 100 Cases of Ovariotomy, with Remarks on the Disaposis of Ovarian from Uterine Tumours." Of late years the discussion in this Society have become very tame, owing partly to be absence of the Dit majors from the meetings, and partly be a table understanding that the Society ought not to become a debating Society. We have never had any doubt that, jown leading men would attend this Society as our brethren ir Paris attended their Academy, the discussions would be infinety more valuable than the papers; and we trust that the time is coming when our wise men will not disclain to utter the words of wisdom, or shrink from the criticism of their junics.

THE RET. PROPESSOR HAUGHTON'S LECTURES.

WE publish to-day the first of a series of lectures "On the Principle of Least Action in Nature, illustrated by Animal Mechanics," which are now in course of delivery on Tuesday afternoons at the Royal Institution. Whoever knows Professor Haughton will be well aware that these lectures will contain conclusions rigorously drawn from observation and measurement, and will throw new light upon many of the most remarkable points of construction in the animal frame. But it were not easy to represent in any report the gratification which these lectures afford to all who, whether they care for animal mechanics or not, can relish the admirable facundia, the humour, the sarcasm, the abundance of anecdote, the wit that flickered around the subject like the sunshine on a gem, culminating in the grave assertion that really in Ireland public opinion would not justify the shooting of landlords for promoting scientific inquiries. As our readers know, Professor Haughton is at once a priest, a Physician, and a philosopher, and the graceful tribute which he paid to the humane and unselfish instincts of the suffering Irish poor, as well as his reverential allusions to the Creator whilst describing His works, showed him a master of every chord that finds an echo within the human heart, and produced that genuine emotion amongst the anditory which is only caused in presence of a great orator.

GERMAN APPRECIATION OF RED-CROSS SERVICE.

It is not a little satisfactory to find that now, when the Germans have a breathing-time, and are able to look round them in peace, they begin to appreciate more highly than at one time they seemed to do the aid so lavishly extended by the British public to the sick and wounded on both sides. The ill-feeling which Prince Bismarck and Count Bernstorff excited by their assertions that we persistently broke the laws of nations and exceeded the rights of neutrals, tempted Germans to look upon these kindnesses merely as sops to the great German nation, with a view to induce them to overlook our peccadilloes. Now, however, the mists of rage are passing away from their mental vision, and they see more clearly that, however done, our kindness was well-intentioned and free from any taint of self-interest. There has been no more satisfactory proof of this than the farewell the people of Darmstadt have just given Dr. Mayo and Messrs. Galton and Rundle on the occasion of their giving up charge of the Alice Hospital. This Hospital, though small, has done eminent service, and the people are duly grateful. It is well known that Dr. Mayo has been decorated for his services. That is one thing, and shows the Court cognisant of those services; but, owing to the intimate connexion existing between the house of Hesse and our royal family, that might be explained away. Not so the popular farewell given to these gentlemen; for, though the Prime Minister of Hesse was present, that was in his private, not in his public capacity. The Main Zeitung of May 18 gives an account of this entertainment. The chairman, in proposing the health of the Medical gentlemen, alluded not only to the bounty of the English Aid Society, but to the care and attention lavished by these gentlemen on the sick and wounded, day and night, for nine long months. Dr. Mayo, in returning thanks, gallantly toasted the ladies of

Darmstadt, without whose aid he assured the company their work would have been too much for them. Finally they parted well pleased with each other, Mesers. Galton and Rundle going on to Munich and Vienna. For the meantime Dr. Mayo says behind a little while longer, for the purpose of establishing a permanent Hospital and institution for nurses on the foundation of the temporary Alice Hospital. On this good work the Princess Alice has set her heart, and there can be no doubt of its accomplishment.

THE UNITED HOSPITALS' ATHLETIC SPORTS.

Over and above the sports of each Hospital club, there are now annual sports got up by members of different Hospitals banded together. Our opinion of these sports within moderate limits has long ago been pronounced, just as it has been when they are cultivated to an injurious extent. A healthy athleticism is undoubtedly good, were it only that it precludes an inordinate devotion to pipes and beer; but carried to an immoderate excess it tends to convert mind into muscle, as has perhaps been too vividly pictured by Wilkie Collins in his recent novel of "Man and Wife." The annual sports of the United Hospitals above referred to will take place on June 1, at the grounds, Lillicbridge, West Brompton, and we would bespeak some little interest on the part of the public in the proceedings. The band of the Grenadier Guards is to perform on the occasion, and that alone, with the fine weather which we trust will be vouchsafed for the day, is enough to draw a crowd of visitors. Nevertheless, the sports themselves are well worthy of a visit, and we trust they will prove in every respect a success.

REMARKABLE INQUEST AT DUBLIN.

THE Dublin Daily Express of the 22nd inst. contains an account of an inquest held an Saturday last, at Dublin, on the body of a lady who had died on the preceding Sunday. The deceased was the wife of a gentleman of position in the County Armagh, but had for some months been residing in Dublin in delicate health, on account of which she had been attended by Mr. Ledger Erson, an unregistered Practitioner, who described himself as a Doctor of Medicine of the College of New York, and a Licentiate in Midwifery, but who admitted, on crossexamination, that he had neither studied in New York nor, in fact, over been there. His qualification in midwifery is a diploma from the Coombe Lying-in Hospital; but it was not in his capacity as accoucheur that he had been attending the deceased lady. Mr. Erson is also a Justice of the Peace for the borough of Dublin, and appears, from the advertising columns of the same paper which contains the account of the inquest, to combine with his Professional and magisterial functions the sale of "Church Missionary" arrowroot at one shilling per pound, feeding-bottles, breast-glasses, violet powder, puffs, homosopathic preparations in variety, sago, spice, nursery-lamps, and lamp-oil. The inquest appears to have been held because the following statement had been made by the deceased lady a few days before her death, in the presence of her servant and Mr. Erson, who wrote it out-but not in his capacity as magistrate—and the deceased attached her signature :-

"Mr. — struck Mrs. — "Thursday, May 12, 1871.
with his fist, which has left a black mark; told her to go to hell; said he wished she was in hell; said he was cursed with her."

After the patient's death, Mr. Erson says he called on the hubband. "I told lim," says the report, "that I had a sad duty to perform, and gave him a copy of the document, which I told him was made from memory." The husband of the lady having put the case into the hands of his solicitors, those gentlemen wrote to Mr. Erson, requesting him to state in writing whether he considered an isquest necessary, and declining to receive any verbal communication

on the part of their client. Mr. Erson, however, only replied verbally that it was for the husband to decide whether there should be an inquest or not. The inquest was therefore held, and, according to the evidence of Dr. R. W. Egan, who had made the post-mortem examination, and of Dr. Edward Hamilton, who had attended the deceased lady since January, it was decided that death was the result of exhaustion caused by constant vomiting, the result of hepatic disease. The jury also added their opinion that there was no necessity for an inquest. although the coroner, having been put in motion, was bound to act as he had done. Mr. Erson added his testimony that the husband of the deceased was a most excellent husband in general matters, and that death arose from natural causes, although he thought that under his treatment she might have been alive and able to walk and drive on that day had she not been over-excited by domestic differences. It must also be highly satisfactory to Mr. Erson's brother-magistrates to observe that, on his cross-examination, he denied having ever made any claim on the husband of the deceased lady, or sent to say that he had a document in his possession, and that it would be better to settle quietly with him, and that he had never sent a demand for £700, or any other sum. He, however, expects £100 for his attendance; we hope he may get it-as a honorarium, as he cannot recover by law. It is clearly no part of the "sad duty" of a Medical Practitioner to receive a private statement of a married woman's alleged grievances. It should have been handed to the husband at once, if at all; there was no use in producing it after the patient's death, and the doing so gave rise to suspicion. We observe, by the way, the names of several gentlemen of very high standing in the Profession in Dublin are mentioned as having met Mr. Erson in consultation in this case; and we are tempted to inquire whether there is a by-law of the College of Surgeons and Physicians in Dublin, forbidding their Fellows and Licentiates to meet unqualified men in consultation. The Poor-law Commissioners of Ireland are the only body, we believe, which recognise the diplomas of the Rotunda and Coombe Lying-in Hospitals as qualifications to practise Medicine and Surgery,

PRESENTATION TO DR. EVANS, OF BIRMINGHAM.

On Friday last, two presentations were made to Dr. Evans. of the General Hospital, Birmingham, in recognition of his services to that institution during thirty-four years as Physician, and of the high esteem in which he is held by all classes in the borough. The presentation was made by the Hon. and Rev. G. M. Yorke, in a very eloquent speech, which was responded to by Dr. Evans in appropriate and feeling terms. The two pieces of plate are the work of Messrs. Elkington, of Birmingham, and the value of them is £211 10s. They each possess the following inscription, and are enclosed in beautiful cases made of oak :- " To George Fabian Evans, M.D., F.R.C.S., for thirty-four years Physician to the General Hospital, Birmingham, and 'beloved Physician' and generous friend of many households, this salver is presented, in order that there may remain in the possession of his family a proof of the high esteem in which he is held by men and women of all classes of society in the borough of Birmingham and the neighbouring counties, who, to the number of 420, in order to provide a suitable testimony to his many virtues, contributed a sum of money, the greater portion of which he has devoted, with that noble generosity that forms so large a feature in his character, to the founding of a Medical library, keeping this small portion only for himself and heirs, in memory of the affection of his friends .- May 1, 1871." A meeting was subsequently held, at which numerous patrons and friends of the Infirmary were present, when a portrait of Dr. Evans was presented to the governors. The work was painted by subscription, and is considered an excellent likeness. We congratulate Dr. Evans on his well-earned honours.

HEALTH REPORT OF GEORGETOWN, DEMERARA.

DR. H. G. DALTON, Officer of Health for the city of Georgetown, in his report for the half-year ended June 30, 1870, states that of 747 deaths recorded during the six months, only twenty-nine are put down to fover : liver disease caused only two deaths, but fifty-two are attributed to dropsy. withstanding that the mortality from diarrhora was larger than might have been expected, that dysentery has prevailed as an epidemic in the city for about two years, and that phthisis, which not many years ago was almost unknown among the Creoles of the colony, has exhibited a startling frequency among the causes of mortality, ninety-one deaths, or one-eighth of the whole, having been attributed to it. Dr. Dalton sees no cause at all for the general depreciation as regards healthfulness in which this colony is held, especially by strangers, He also hopes, with more correct and extended returns of the births and deaths, and with ordinary attention to sanitary measures, to be able to establish the fact that the colony can vie with many other countries in the satisfactory exposition of statistics as to disease and mortality. The deathrate of the population, exclusive of children under one year old, was about 20 per 1000, while of children of that age, 160 per 1000 died. Although he has not yet the statistics necessary to prove his statement, Dr. Dalton considers that the number of twin-births occurring in the city is much greater than in most other countries.

FROM ABROAD,—PREVALENCE OF DRUNKENNESS IN THE FRENCH ARMY.

Ar the meeting of the Académie de Médecine on May 9, M. Jeannel read an important paper on the "Repression of Drunk enness in the French Army." He observes that during his long sojourn with the French armies, and especially during the campaign of 1870-71, he has had ample means of observing the much-to-be regretted fact that drunkenness among soldiers is neither reproved nor repressed, but encouraged by public opinion, and indulgently tolerated by the officers from the subaltern to the general. At the commencement of the campaign, the troops as they passed through the towns or along the railways were everywhere plied with drink, so that numbers of them were in a state of complete drunkenness along the route. The majority of the officers regard this state as a kind of consolation to the soldier for the miseries, privations, and fatigue which he is subjected to, and think that it would be unjust and cruel to restrain him as long as he does not quarrel and is still able to obey the commands. Drunkenness was indeed often admitted as an excuse for the commission of many faults in discipline, and numbers of officers did not regard the habit as necessarily opposed to the possession of the qualities essential to form a good soldier. While on march, therefore, at every halt the soldiers, under the eves of their officers, rushed in crowds to the cabarets, while every battalion was officially accompanied by a cart (decorated with flags, on which might be read the name of the cantiniere and the corps) containing. barrels of spirit, which, by addition of water, was extemporaneously converted into cognae. A crowd of nomad cabaretiers was always found along the roads or in the midst of the camps, and a brisk competition was maintained with these by ragged girls from the neighbouring towns with baskets filled with bottles of spirit. Moreover, some of the generals relied less on firm courage, patriotic devotion, or military honour, than on a large distribution of brandy when the moment arrived to attack the enemy and carry a position-maintaining that commencing drunkenness was a highly useful stimulus to bravery. That under these circumstances habits of drunkenness have become propagated throughout the army, is only what might be expected. And M. Jeannel shows in addition, by quotations from the military regulations, that drunkenness is by them regarded with a very lenient eye, to be punished as little as possible.

"It has become evident to ail," M. Jeannel observes, "that the habit of drunkenness, become thus generalised among our troops, has contributed a great share in the sapping of discipline which has been attended with such disastrous consequences. At the same time that it demoralises the army, it ruins its physical condition, diminishing the power of resistance to fatigue, to exposure to weather, and to privations, aggravating the effects of wounds, impeding the success of operations, and contributing to the mortality from epidemic causes.

He regards, then, the "repression" of drunkenness as one of the primary conditions of military regeneration; and no matter what improvements in this respect may be going on amidst the civil population, these will be of no avail -if authority and discipline do not succeed in arresting the habits of intemperance in the army itself-for it is not until he enters the army that the young soldier, as a general rule, contracts habits of debauchery and drunkenness; and it is there that is recruited the fearful band of drunken and debauched outriers which dishonour and disorganise national industry. Any regulatory dispositions intended for the repression of drunkenness will, however, be of no avail whatever in the army if the bad examples given by officers and sub-officers are not steruly restrained by penalties. "To those who would exclaim against this I can only say that during the last campaign I knew, intimately, a chef d'escadron who frequently furnished a scaudalous example of drunkenness, bedizened though he was with decorations." M. Jeannel terminates his paper by enumerating the various penalties which, he suggests, should be enforced in counteraction of this monster evil, so destructive of all military efficiency.

M. De Ranse, editor of the Gazette Midicale, reporting M. Jeannel's observations, observes-

"We have several times had occasion to signalise in these pages the sad and painful spectacle which has only but too often presented itself to ns during the siege of Paris when we have made excursions beyond the walls. One was really astonished and distressed at meeting with, up nearly to the very outposts of the enemy, so large a number of drunken soldiers, and especially in observing the tolerance which was extended towards them.

PARLIAMENTARY .- ASSESSING AND COLLECTING THE INCOME-TAX-WATER SUPPLY OF LONDON-ADULTERATION OF FOOD, DRUGS, ETC., BILL-QUESTIONS TO BE ASKED.

On Thursday, May 18, in the House of Commons,

Mr. Chadwick moved for a select committee to inquire into the mode of assessing the Income-tax. In the debate which arose on Mr. Chadwick's motion, Mr. Lowe offered, if Mr. Chadwick would furnish him with a list of thirteen grievances, with his comments, at once to make a searching inquiry into with his comments, at once to make a searching inquiry into such of them as were not of a speculative or metaphysical character. This compromise was declared unsatisfactory by Mr. M. Cullagh Torrens. On a division the motion was rejected by 56 to 47.

In committee on the Income-tax Bill there was a protracted conversation on a clause moved by Mr. Hermon, providing for the collection of income-tax in two instalments. resisted by Mr. Lowe, and ultimately negatived by 76 to 37.

On Tuesday, May 23,

Mr. Kay-Shnttleworth moved a resolution declaring that water supplied to householders in London should be derived from pure sources, and delivered on the "constant supply' system. Though dealing only with the metropolis, he treated it as a part only of the great question of sanitary reform for the whole country, and the key-note of his speech was struck in the assertion that 100,000 preventible deaths occur annually in this country (for which he held the House of Commons to some extent liable), and that the Metropolis Water Bill of the Government is incomplete. In the first place he showed that the present supply was derived from impure sources, and for this purpose, with the avowed object of disgusting the House tine purpose, with the avowed object of disquesting the Houses and line country with the present state of things, he read some and line country with the present state of things, he read some Commission, of Mr. Simon, Dr. Farr, and other authorities. From these he drew the conclusion that the consumption of Thames water is a fertile source of cholers and typhold fever, that no process of filtration or re-oxidisation can make the Thames water fit for drinking purposes, and that we ought to go for our supply to head waters or spring wells. Next he examined the alternative plans of supply—for instance, the plans for bringing water from Wales, Cumberland, etc.—pronouncing decidedly in favour of drawing on the chalk formation about Loudon. To obtain two hundred millions of gallons daily from this source he calculated would not cost more than 400,000/, a year, and the softening process necessary for chalk water would amount to about 600,000%. But he pointed out that this would be counterbalunced by a great saving in soap, amounting, according to a distinguished water authority, to half a million a year in London. Dealing next with the continuous system of watersupply, he dwelt on its advantages on the score of health, in e case of fires, etc., and from the example of Glasgow and Manchester, where the system had been successful, he showed that it was attended with a great saving of water, and no increase of rates.

Dr. Playfair, in seconding the motion, maintained that no Bill on the subject would be satisfactory which did not join the control of the metropolitan supply with the Conservancy of the Thames and Lea, so as to prevent us drinking the refuse of the upper riparian population. He argued, also, in favour of the continuous system, and the transfer of the supply to a

public trust.

Mr. Clay dissented from the conclusion that the present supply was derived from impure sources. At any rate, considering the discrepancies which he pointed out in the evidence, instead of a direct condemnation Mr. Kay-Shuttleworth . onght to have moved for a commission or a committee to reconcile them. Not going so far as to characterise the idea of drawing water from the chalk as Utopian and absurd, he held that the evidence in favour of it was utterly inconclusive; and he maintained that the water companies were ready to try every improvement required by Parliament.

Mr. Hardy, who confessed that he was a New River shareholder, did not object to any amount of inquiry, but deprecated the passing of an abstract resolution which was opposed to all the decisions of past commissions and committees. that the chemists had yet come to any unanimous conclusion that the water-supply was fatal to health. The adverse judgments pronounced on it were not drawn from analysis, but from a mere assumption that a certain ascertained condition of health was due to the water-supply. To draw the water from the chalk would be to exhaust the rivers, and the great objection to a constant supply-which was not demanded by objection to a constant supply—which was not demanded by the rich—was the neglect of the landlords to provide the pipes and fittings for the purpose. The quality of the Thames water, too, would be much improved if the upper towns carried out the powers given to them.

Mr. Bruce entirely approved the language of the resolution, but at the same time he held that many of Mr. Kay-Shuttloworth's quotations did not apply to the present condition of the water-supply. There was no evidence to show that the Thames water was absolutely deleterious. Mr. Bruce also was absolutely deleterious. explained and defended the principle on which the Government

Bill was framed.

Mr. Dalrymple believed that the Thames water, properly purified, was wholesome, and the very soft water was only good for laundresses and tea-drinkers.

Mr. Cave, seconded by Mr. M'Callagh Torrens, moved the "Forcious question," and after some remarks from Mr. Your, Sir John Lubbock, Mr. Cawley, and Mr. H. Lewis, the motion was disposed of in this way.
Mr. Muntz noved that the House should go into Committee

on the Adulteration of Food and Drngs, &c., Bill.

Sir C. Adderley moved as an anneudment that the House should resolve itself into the said Committee on this day six months.

Mr. Cave opposed the Bill, which, in his opinion, would rove wholly inoperative in small towns and villages, because the burden of prosecuting offenders was thrown upon their

Mr. Bruce, on the other hand, supported the Bill, because it increased the penalty for adulteration, and was a useful measure as far as it went. Another Bill might be subsequently introduced to establish a central authority, which should be charged with the initiation of prosecutions.

The amendment having been negatived without a division, the House went into Committee on the Bill pro forms, but progress was immediately reported, and the House resumed.

The following notices were given on Tuesday, May 23:—
Mr. Wilmot,—To ask the Secretary of State for the Home
Department, whether Mrs. Ingham, who was tried at Derby

Assizes in July, 1869, for the murder of her child, and acquitted on the ground of puerperal insanity, has been certified by the Medical officer of Derby County Gaol to have become perfectly sane within a few days of her trial; whether the visiting justices have, on the strength of this Medical certificate, twice applied for her discharge; whether, in answer to their last application, on April 4, 1871, they were informed that if her application, on april 1, 1871, they were informed that if her health was suffering she might be received into a criminal lunatic asylum; and whether, if this is the case, he does not think such a course would be likely still more seriously to think such a course would be inderly said indice settlemy, so injure the health of a sane woman; and if he will be good enough to state to the House on what grounds he does not fee

enough to state to the House on what grounds he does not fee justified in granting her discharge after her recovery has lasted for s:venteen months.—Friday, May 26.

Ou going into Committee of Supply:—Mr. Clare Read,—To call attention to the operation of the Contagious Discasses. (Animals) Act, and the recent orders relating to foreign stock, and to move for a select committee to inquire into the cost,

constitution, and working of the veterinary department of the Privy Council.—Friday, June 2.

Dr. Lush,—To sak the President of the Poor-law Board if he proposes to bring in a Bill to enable him to extend the system of Poor-law dispensaries to the provinces; and, if so, (Deferred to Monday, June 5.)

when. (Deferred to Monday, June 3.)
Mr. William Fowler,—Contagious Diseases Acts (1866 and 1869) Repeal,—Bill to repeal the Contagious Diseases Acts 1866 and 1869.—Tucsday, June 20.

SMALL POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the

	_	und	lern	entio	ned 1	Dietri	cts.			
				_	No	of C	anes :	week	ending	
Distri	lets.			April 15.	April 22.	April 29.	May 6.	May 13.	May 20.	May 20. Sent to Hospital.
West-			Т			T.				
Chelsea . St. George,	٠,	Hanov		9	9	9	4	16	_	-
square .	. *	CHRIST	er-	16	19	23	14	11	9	6
St. James, W	cat	minste	pr .	8	6	2	8	9	9	_
Paddington Norra-		•		2	24	12	20	24	15	7
St. Pancras				102	121	890	104	101	117	2
Islington .				69	67	59	64	59	42	25
Hackney . CENTRAL	٠	•		. P	46	30	P	18	1	-
City of Londo				16	14	13	5	13	11	2
St. Giles-in-t	he-	Field	8 .	11	2	14	5	5	\$	-
Holborn .				8	8	9	5	13	10	8
St. Luke's East—	٠	٠	٠	20	17	25	12	13	17	15
Whitechapel				14	17	23	7	4	23	9
Poplar .	٠	•	٠	F	P	9	. 5	2	11	6
St. Mary, New	ing	ton		34	37	47	25€	28	22*	27
St. Olave, Sor				3	3	5	3	2	2	2
St. George-	the	- Mart	yr,						١. ١	
Southwark				30	31	26	8	P	9	-
Lambeth .	٠			24	?	32	20	?	1	-
Clapham . Wandsworth	٠	•		28	23	32	29	13	16	1
Putney .				6	6	8	4	4	1	1
Streatham	•		•	7	2	P	P	P	9	_
Greenwich			•	2	2	1	9	P	12	-
Plumstead	•		•	5	3	3	1	6	6	6
T ramerend				0	. 3	3	-	. 0	0	-

· Return imperfect.

THE Peterhead correspondent of the Aberdeen Free Press says, "We are at present overrun with quack Doctors, who, if report speaks truly, are making a rich harvest off the more credulous of our townsfolk. There is no disease known more creamons of our townshork. Aftere is no disease known that they are not prepared to cure. It is astonishing that sensible people could allow themselves to be duped in such transparent fashion."

THE APPLICATIONS OF ELECTRICITY TO MEDICINE.

PRELIMINARY CONSIDERATIONS.

The almost simultaneous appearance of a number of valuable treatises on the subject of Medical electricity, certain of which will fall into the hands of special students, and which will fall into the hands of special students, and render them service, but which are too bulky and too full of detail to aid the busy Fractitioner, has induced us to give an outline of some of the principal facts relating to electricity in its applications to Medicine. (a)

To do this with full effect, certain preliminary considerations are necessary, so as to give a proper understanding of the kind of force thus employed, its mode of generation, of transmis-

sion, and of action.

In accordance with modern scientific notions, we must teach that Force is one, variously modified, it is true, and in its modifications variously manifested as motion, heat, light, electricity, magnetism, or chemical force, but that the total electricity, magnetism, or chemical force, but that the total capatity of this kind of force in the universe is invariable. True, it may be stored up so as not to be appreciable, or, as it is called, become latent; but it is still capable, under appropriate circumstances, of being again rendered namifiest. To take the case of a projectic ejected from the mouth of a gun; this, if the gun is pointed straight up into the circumstances are considered as the contract of the cont the air, will pass upwards with constantly decreasing velocity, until the initial impulse is completely expended. If left to itself, it will then, again, descend towards the earth with constantly increasing velocity, until at last, when it reaches the ground, this will equal the force of the primary impulse, minus a certain small proportion expended in overcoming the resistance of the atmosphere in the ascent and descent, and which will appear as heat. But, if we can suppose the ball caught just as it began to descend, when its force was nil, and retained at that elevation, we should have an example of latent energy. When caught, it had no force, but its elevation above the ground was acquired by a certain expenditure of force an expenditure which can, in great measure, be recouped by allowing it to again descend. So long, therefore, as it is retained at that elevation, this force will remain latent; the moment the bullet is set at liberty and begins to fall, force again becomes patent, pari passu with the fall of the body.

Electricity is one of the forms of this omnipresent Force; and it can only be developed at the expense of some other mode of its manifestation, especially of motion or chemical force. It has been known almost from time immemorial that certain bodies rubbed against certain others acquired new cortain bodies rubbed against certain others acquired new properties whereby they are able to attract to them small and light objects. Thus, if a stick of scaling-wax be rubbed on the sleeve of the coat, it will acquire this property; so, also, if a glass red is rubbed with a slik handkerchief, to will become quite hot, but will never acquire this property. Whence arises the difference? In both cases a certain amount of force has been expended in rubbing; but in the one case both heat and electric force have been developedthe one case both heat and electric force have been developed, in the other, apparently heat only. Really, however, as in both cases energy has been expended in rubbing, so in both heat and electricity which has been developed is dispersed as fast as produced by means of the metal rod and the human body—both fairly good conductors of electricity; in the former it has been retained, and so made manifest, because glasse and resin are bad conductors of electricity. We are to conclude, therefore, that by thus rubbing any non-more conclude, therefore, that by thus rubbing any non-more concluded.

conductor we may secure the manifestation of force partly as

heat, partly as electricity. But it is to be noted that, in certain

heat, partly as electricity. But it is to be noted that, in certain (1s. A Treation on Localized Electrisation, and its Applications to Pathology and Therapeutics. By Dr. O. B. Duchenne (de Boulagre). Translated from the Traide Edition of the Origanal Py Brever Resplication of the Company o

of its properties, the latter varies. Thus, that produced by the glass rod is called *positive*; that produced by the sealing-wax is called *negative*. And of these it is to be said that, whilst bodies electrified negatively attract those electrified positively, negative repels negative, and positive, positive.

tree repeis negative, and positive, positive.

This form of electricity—that is, the one produced by friction—is commonly called Static electricity or frictional electricity.

By means of appropriate a paparatus it may be collected, and stored up in glass jars of peculiar construction, called Leyden jars. These may, in turp, be combined in groups, and in this fashion sufficient electricity may be stored up to produce, on discharge, effects similar in kind to those of lightuing, and, when a considerable number of jars is used, even approximately in degree, inasmuch as they may give rise to fatal effects.

Such a combination constitutes a true electric battery But other kinds of force, besides motion coupled with friction, may exhibit themselves as electricity, especially chemical force. It is perfectly well known that all our artificial modes of producing heat depend on the energy stored np in bodies kept apart from or uncombined with, each in bodies kept apart from, or uncombined with, each other, and which, when brought in contact under favouring circumstances, give this latent force forth as heat. In certain circumstances, give this latent force forth as heat. In certain instances, however, a preportion of this energy developes itself as electric force. Thus, if we take a plate of zinc and a plate of copper, and introduce the two into a liquid such as dilute sulphuric seid, which has a strong tendency to combine with the zinc, those two will unite, and so set free a cer-tain amount of energy, part of which will appear as positive, part as uegative electricity; for the one plate will be positive, the other negative. But if the two metallic plates are brought in contact, etcher immediately by touching each other or mediately by means of a wire, these two varieties will constantly tend to again unite through its conducting agency; but, being as constantly broken up by virtue of the chemical combination going on an electric current will be formed. Electricity so produced is called contact, current, or dynamic electricity. When the two plates are united in this fashion, electricity. When the two plates are united in this fashion, the zinc is more vigorously attacked by the acid than is the copper. That portion of its surface above the fluid seems to give off negative electricity; from that below the surface positive electricity passes through the fluid to the copper plate, and exhibits itself where the copper is joined by the connecting wire, through which the hypothetic electric current is supposed to flow from the copper to the zinc. As it is the course of the so-called positive electricity we always follow, that of the negative is tacily ignored. An electric current is invariably produced when two metals are introduced (in contact) into a fluid which affects one metal more than the other. The one most affected is called the positive or geneouter. Into one most ansected is caused the positive or gene-rating plate; from it the electricity passes through the fluid to the loss affected or negative plate. But any number occupies, as they are call-id, may be thus counceted; and by this means the quantity of electric force produced is propor-tionately increased. The whole collection of couples is called a Voltaic or Galvanic battery, after the names of those concerned in the discovery and primary elucidation of this form of energy. If the wire joining the copper and the zinc of the extremes of this battery be cut, the electricity produced will tend to accumulate about their cut extremities, which are con-sequently called poles. Hence, the wire connected with the copper would become the positive pole, that with the rine the negative pole. The term electrode is now very often used as

(To be continued.) MR. CORRANCE, M.P., AND POOR-LAW MEDICAL REFORM.

synonymous with that of pole.

WE learn that Mr. Corrance is at present travelling in Ireland, whither he has gone purposely to investigate the administra-tion of the poor-law, and particularly the working of the Medical Charitics Act, and, with the object of making his inquiries more complete, has sent to the Medical and Poor-law Inspectors as well as to several Dispensary Physicians the form of questions which we append. Mr. Corrance will, at an early day after the Whitsuntide holidays, call the attention of the House to the unsatisfactory state of English Medical relief, and urge the expediency of assimilating the system here to that which has existed with so much advantage to the community for many years in Ireland.

"Carlton Club, Pall-mall, London. " May 24, 1871.

" Dear Sir,-You would much oblige me if you would kindly

answer the following questions and return them to me, at the above address, at your earliest convenience :-

"1st. Has the operation of the Medical Charities Act (Ireland) enabled the guardians to enforce a system of indoor relief without undue hardship towards the indigent classes?

" 2ud. Has it led to a diminution of pauperism arising from sickness !

"3rd. Has it exercised a controlling effect in diminishing the severity of epidemic outbreaks and the amount of symotic

"4th. Have the Medical Profession, acting as general Practitioners, any just ground of complaint arising out of its

"5th. What is the feeling of the Medical Profession generally in Ireland respecting it?
"6th. Has there been any appreciable falling off in poor-

relief expenditure in any district since it came into operation, the diminution of population in such district being taken into account?

"5th. Are there any, "sth. Are you favourable to us ";
"9th. Are you favourable to us ";
recommend it for general adoption? rours truly,
"I am, yours truly,
"F. T. CORRACE,
"M.P. for East Suffolk." "7th. Has it led to a better administration of the poor-laws? "8th. Are there any, and if so, what are its principal defects?"9th. Are you favourable to its operation, and would you

THE EFFECIS OF CHANGE OF CLIMATE ON THE HUMAN ECONOMY.

WE are indebted to Dr. Rattray, Surgeon R.N., for a very elaborate memoir "On Some of the more Important Physiological Changes induced in the Human Economy by Change of Climate, as from Temperate to Tropical, and the reverse." (a) After as from temperate to Tropical, and the reverse. (a) After pointing out that tropical pathology, whether of native or foreign races, cannot be properly studied till we know its physiology, and that many so-called tropical diseases are merely exaggerations of the ordinary effects of climate, or, in other words, physiological merged into pathological phenomena, he glances at the various experiments that have been artificially made (by hot-air chambers, the rarified atmospheres of high elevations, etc.), with the view of elucidating the effects of hot and cold climates on the human body, and shows that such observations, although interesting as approximations to truth, are evidently wauting in practical importance, because we fail in obtaining fair examples of natural climates.

Special sections, containing most elaborate tables of ex-periments, are devoted to the Influence of Tropical Climates —(1), On the respiration; (2), on the pulse; (3), on the temperature of the body; (4), on the kidneys and skin; and

temperature of the body; (4), on the analyse and cain, (5), on the weight and strength.

1. No less than eleven pages, containing five tables, are occupied with the consideration of the Influence of Tropical Climates on the Respirations. The first table gives the results of observations on the effects of tropical weather on the capacity of the chest, as indicated by the spirometer. The observations were made on four strong, full-chested, adult seamen, fourteen healthy adult four strong, full-chested, adult seamen, ionreen neating adult officers, and six lads, aged 16-17 (twenty-four individuals in all), during a voyage from England (lat. 51° N) to Bahia (lat. 11° S.) and back. In twelve of the seamen-wiz, the four adult seamen and eight of the adult officers, the experiments were carried out more thoroughly than in the remainder, and the results yielded by the twelve were as follows. In the temperate summer climate of England (June 13; average temperature 65° Fahr., shade) the mean capacity of the chest was 256 cubic inches. Nineteen days afterwards (July 12; 78° F., shade), in the equatorial doldrums, and greatest heat of the outward voyage, the capacity had increased to 280 cubic inches, equal to an average gain of twenty-four inches per man. Thirty-eight days later, (August 20; 83° F., shade), in the equatorial doldrums, and (August 20; 60 **, snate), in the equatorial colorums, and highest temperature of the return voyage, the increase was further augmented in ten of the cases by an average of six and a half cubic inches, from prolonged tropical exposure; while in the remaining two the capacity remained stationary. The total average increase in the twelve cases during fifty day's residence in the tropics was thirty-one cubic inches, or 12:24 per cent. In evidence that the increase was due to climatic causes, and not to merely an increased facility from custom in using the instrument, the same cases were again tested about three weeks afterwards, as they approached the English coast

(a) Proceedings of the Royal Society, June 16, 1870, and February 16, 1871,

(September 14; 65° F., shade), when it was found that the capacity of the chest for air had again decreased in every case by an average of twenty-six cubic inches. Although the by an average of twenty-six cubic inches. Although the temperatures were the same on their leaving and returning to England, the time was apparently too short to allow the capacity of the elect to resume its first average of 256 cubic inches, being still at 250 inches; but on a subsequent examina-tion, five months later (February 10: 42° F., shade), the average capacity was found to be 255 cubio inches, or three inches below the first trial. The results among the other adults and five of the six youths were identical, and showed that the thoracic capacity is considerably greater in the tropics than in temperate climates. The greatest increase amounted to thirtynine, and the lowest to twenty-one cubic inches.

The second and third tables, showing the effect of climate on the capacity of the chost in the black races, and in pulmonary disease, are based on too few cases (three and four respectively) to give trustworthy results. In two pure blacks the capacity of the chest in the tropics (99 F.) was twenty-five and eighteen cubic inches greater than in the winter in England (32° F.). In four cases of phthisis there was a decrease of from eight to fifteen cubic inches in an interval of only five days, on the first of which the temperature was 83° F., and on

the last 78° F.

Dr. Rattray points out that a knowledge of the law that "the pneumatic capacity of the chest varies with temperature, increasing in tropical, and diminishing in temperate and cold climates," has an important practical application in preventing mistakes in the spirometric diagnosis of certain lung diseases. Thus, "the capacity of the chest of an individual debilitated by residence in the tropics, and weak-chested, but with no active residence in the tropics, and wear-contex, our win no make illing disease, being say, 200 or 270 cubic inches, he might be supposed to have contracted incipient phthias on reaching England in winter, labouring under eaterth, with the pneumatic capacity of his chest reduced by from twenty-five to thirty-five cubic inches. On the other hand, a patient actually in incipient phthisis might be erroneously considered to have permanently recovered by a trip to the tropics, having raised the capacity of his lungs for air by a similar amounti.e., almost or actually up to the normal standard for his age and height in a temperate climate. A similar mistake might be made, especially if the instrument is carelessly used, in the same climate—e. g., that of England, at different seasons of the year, such as the height of summer and the depth of winter, when a considerable difference in the capacity of the lungs for air must not be taken as an index of disease."

As it is not by deep and forcible breathings that ordinary respiration is carried on, it is important to ascertain whether the air inspired in each ordinary breathing undergoes a similar change, according to the climate. This is a far more difficult point to decide than anything we can learn from the spirometric point to decide than anything we can learn from the spirometric experiments. From analogy, we may infer that the law holds for ordinary respiration, and a few observations made by Dr. Rattray upon himself confirm this view. "My ordinary respirations," he observes, "ranged from four to eight, and averaged six cube inches in a temperature of 44 "Fahr, (shade) during the winter of England. At Lisbon, during an average temperature of 65 "Fahr, (shade), they ranged from froe thirteen, and averaged nine cubic inches. Unfortunately, while in the tropies I had not the proper apparatus to ascertain how much they increased during the far greater temperature of equatorial regions."

ascertain how much they increased during the far greater temperature of equatorial regions."

The fourth table may be passed over without comments, and merely shows that in the tropics the period of the day has very little influence on the capacity of the chest. The fifth table shows how the frequency of the respiration is affected by tropical climates, and is chiefly compiled from the daily results of the three months' royage to Bahia and home; the observations being taken in the standing position at 9 a.m., 3 p.m., and 9 p.m.; and the averages being for a week. This table shows that in the summer of England, with an average temperature of 62° F., the average number of respirations per minute was 15 68, whereas in the doldrums or warmest part of the tropics, 10 08, whereas in the doldrums or warmest part of the tropics, during the outward vorage, with a temperature of 78.74 F., the average was only 12.74, and on the home vorage, with a similar temperature, 13.74—a decided decrease. In the winter of England (February) with a temperature of 42°, the average had increased to 16°5, and at freezing-point, 32°, to 17°6. These results were confirmed by Mr. Knott, Assistant-Surgoon to Dr. Ruttray's ship, the British, who showed that while, as in temperature of the surface rate latitudes, the activity of the respiration varies in different individuals, there is a diminution in the number in the tropics.

Here, then, are two closely-related but opposite results-viz., an increase in the capacity of the chest for air in the

tropics, with a decrease in the number of the respirations. Dr. Rattray explains the first of these results by assuming that "there is really no actual increase in the capacity or size of the chest and inclosed lungs, but only an alteration in the relative proportion of blood and air contained in the latter." remaive proportion of blood and air contained in the latter."

He believes that the lungs, unaltered in size, contain subblood and more air in tropical than in temperate climates, the
blood being in part diverted to the excited skin and liver. We can thus explain the benefit derived in the early stage of phthisis by a sojourn in a sub-tropical climate. "Residence in a warm atmosphere is followed by a decrease in the quantity of blood in the affected lungs, by diminished activity in the vital processes carried on therein, by facilitated respiration, and, above all, by diminished lung-work, from vicarious action of the physiologically exited skin and liver; while the inhalation of milder, more equable, and less irritant while the limitation of imitter, more equation, and the intrease of air diminishes the chances of excitement or increase of distressing local inflammation, and those bronchial attacks so apt to break np old, and cause the deposition of new, tuberole.

Now, if we can imittate Nature's operations, and, by increasing the temperature of a sick-room or ward in the tem-perate climate of England, can convert it into a local sub-

tropical or tropical climate, we withdraw no inconsiderable amount of blood from the lungs to the skin and liver, thus relieving its overburdened capillaries, permitting freer access of air, and so aiding the respiratory process—a safe and sure mode, both of relieving dyspaces and cough and aiding the via medicatrix. The author likewise believes that this law is suggestive in

relation to the nature of the food, and to hygiene generally in relation to the nature of the food, and to hygiene generally in the tropics. He calculates that, in a tropical climate, the lungs eliminate less carbon to the extent of above an ounce in the twenty-four hours than in England. Hence he infers that in twenty-tour ours man in Engrand. Hence he interest that in hot countries the diet should be less carbonaccous than at home, and than independently of the diet, especial attention should be paid to the condition of the skin. We presume that Dr. Rattray gets over the apparent difficulty of carbonaccous food being the chief support of the natives of tropical climate by assuming that the climate does not affect them as it does Europeans.

The sixth and last table in this section of the memoir states that (1) the number of respirations-morning, afternoon, and evening—are all less than in temperate regions, and (2) that, in tropical as in temperate latitudes, the respiration is less frequent in the morning, and gradually increases as the day goes on.

in the morning, and graduanty increases as say say a system of 2. The Influence of Tropical Climates on the Pulse may be considered in a few lines. The observations were taken three times a day (at 9 a.m., 3 p.m., and 9 p.m.), in a standing positioned voxege. It appears (1) that tion, during the above-mentioned voyage. It appears (1) that the average pulse for the tropics (874) is lower by two and a half beatsthan that for the temperate zone (90), indicating a more lan-guid circulation; (2) that the same holds good for the average gam erreasion, (2) that the same noise good for the average morning and evening palse; (3) that the average afternoon pulse is higher in the tropics than in temperate latitudes, pro-bably from the solar heat, which is greatest at that period of the day; (4) that the highest (112) and lowest (66) pulse of the period occurs in the morning; and (5) that the morning pulse has the greatest and the evening the lowest range. As these observations, which extended over sixty days, were made on one individual only, their confirmation is necessary.

3. A table is given in the section on the Influence of Tropical Climates on the Temperature of the Body, contrasting the average heat of the body in the tropics and the temperate climates, and showing that "while in England during a summer, and almost sub-tropical temperature, ranging from 60° to 70°, the average was 98.3°, it rose in the tropics to 98.6°, and in the equatorial doldrums, at a temperature of 84°, to 99°, and on one occasion to 99°.6°. The difference would have been greater had the season in England been winter, or the latitude higher. had the season in England been winter, or the latitude higher. The temperature of the body in the tropics attained its maximum during the afternoon, when the sun is high and the body most active, and least in the morning." On special occasions in which the atmospheric temperature was very high, the heat of the body was greater. Thus—the thermometer standing at 99° in the shade at 3 p.m.—out of fitty-one observations, the animal heat was 99°5 in seventeen, and 10° in five cases. almina near was 5 m sections, and the temperature of the body in health is about 2° Fahr. Dr. John Davy gave it at from 5° to 1°, and Eydaux and Brown-Sciquard at from 1° to 2.5° or 3° Fahr. In hot and very humid elimates, the temperature of the healthy body may probably rise considerably higher than 100°.

(To be continued)

THE ARMY MEDICAL DEPARTMENT REPORT FOR 1869.—VOL. XI.

THE new nomenelature and classification of disease, prepared in 1868 by a Committee of the Royal College of Physicians, assisted by representatives of the Medical Departments of the Army and Navy, the Registrar-General, and other professional bodies, having been adopted by the Government as a standard, was taken into use in the army on January 1, 1869. An important change in the form of the statistical tables has thus become necessary, and the report opens with a brief but very practical and clear explanation of the nature of the new nomenclature and classification, and of the modification necessary to render the latter applicable to military statistics. The College being unwilling to attach any designation implying a special theory to the two sub-divisions of general diseases, preferred to indicate them by the letters A and B. But in the preparation of the Medical statistics of the army, it has been found conof the Medical statistics of the army, it has been found con-inging the statistic correct, by the desires of both of any constitutional properties of the constitutional constitutional properties of the constitutional group. The former comprises choices, anticuous, experience and constitutional group. The former comprises choices, indicuous, experience and the constitution of fever; the latter includes rheumatism in all its forms, expellis (primary, secondary, and hereditary), scordula and phthasis (including secondary, and nervitary), sourry and purpura, amenia, and other constitutional affections. The College of Physicians did not deem it necessary to retain a separate class for enthetic diseases; consequently, in the classification, gonorrhors and its complications and results are returned among affections of the urinary system. But as, from a military point of view, this class of diseases is so important, especially with reference to the amount of inefficiency and invaliding to which they give rise, the Director-General decided to call for special returns of them annually from every corps, and issued instructions for the mode of preparation of these returns, from which all the uccessary information respecting the prevalence of enthetic diseases is compiled. The constitutional form of syphilis, and the local venereal ulcer, according to the Director-General's instructions, are to be carefully discriminated; genorrhosa and all its sequelæ to be entered under their respective heads; while suppuration of the inguinal glands, orchitis, etc., arising from causes other than venercal, must be excluded from these returns,

and centered in their proper class and order. A mainted to the Army Medical Department cluster the year 1809, the strength of troops erroing in the United Kingdom was 73,764, among whom there occurred 68,707 admissions into Hospital and 694 deaths, the average number constantly sick being 3011. These numbers give the proportions of 797 admissions, 941 deaths, and 40 52 constantly sick per 1000 of mean strength; and 40 52 constantly sick per 1000 of mean strength; the admissions into Hospital were 159 per 1000 of the strength under the average of the preceding nine years; there was also a slight decrease in the deaths, and the proportion constantly sick was less by 8 per 1000. General diseases gave rise to upsick was dead to the strength of the death of the death, and the proportion constantly sick was less by 8 per 1000. General diseases gave rise to upsick was dead to the strength of the death. Spithis of the strength of the death. Spithis of the strength of the feath of the death, and the proportion to nearly one of the strength of the death. Spithis of the strength of the feath of the feath of the death of the death

during the eight years from 1860 to 1867.

Of the local diseases, those of the urinary system furnished the highest proportion of cases, the excess being entirely due to gonorrhoas, which gave 107 out of the 122 admissions per 1000 included in this group. The number of self-inflicted deaths was thirty-four, or 46 fee 11000 of the strength, being slightly above the average of the preceding nine years; it wenty-one were effected by firerarms, seven by cut-throat, they drowning, one by poison (cyanide of potassium), and one by multiple injury, the man having thrown himself off the Castle

Rock at Edinburgh.

The admissions from the febrile group were 46-9, and the deaths 49 per 1000. Eruptive fevers did not prevail at any of the military stations, although at Woolwich, Chatham, Canterbury, and Maidstone, the ratio of admissions was above the average, in consequence of some cases of vaccination having been almitted. Only three deaths from eruptive fevers—all from scratef ever—were returned; they occurred at Windsor, Pembroke Deck, and Stirling. Of continued fevers, only twelve were returned as typhus, with four deaths; forty-one cases and

thirteen deaths as enteric fever; one as relapsing; five with

four deaths as cerebro-spinal; 700 cases and seven deaths as simple continued fever; and 711 cases as febricula. The case of relapsing fever occurred at Pembroko Dock; two of the cases of erebro-spinal fever occurred at Pertomouth, and one Aldershot, Dover, and Kilkenny respectively, the last being the only one which recovered.

by pline season are recovered.

Hyphilis caused a very high preportion of admissions among hyphilis caused a very high properties of admission and the properties are the deek parada and arsenals. The season towns and camps had the next lowest proportion, the comparative exemption of both groups being probably due to the operation of the Contagious Diseases Act. The proportion of cases of primary to secondary sphilis was as a 3 to 1.

to secondary syptims was as 3 to 1.

A short paper in the appredix, by Dr. S. Graham Balfour, F.R.S., Deputy Inspector-General and head of the Statistical Branch. "On the Operation of the Contagious Diseases Act of 1866," contains most important information. Dr. Balfour observes that it is only in primary venereal sores and gonor-heas that the immediate operation of the Act may be expected; that it is influence in reducing the amount of secondary yphilis cannot, from the nature of the disease, be deduced from the statistics of the different stations, and a considerable time must slapse before any marked effect in this respect on the army generally can be developed.

Comparing the prevalence of primary venercal ulcer and gonorrhea at the stations under the operation of the Act, and at those to which it has not been extended, Dr. Balfour gives the following results:—

Ratio of Admissions per 1000 of Mean Strength.

	196	1987.		(a)	1869.		
	Primary venereal sorte.	Gordi-	Primary venereal sores.	Genor-	Primary veneraal sores.	Gonor-	
tations under the Act , tations not under the Act	86 106	131 127	72 108	127 127	61 113	108 99	

The proportion of cases of primary venereal sores at the protected stations in 1869 is, therefore, nearly one-third less than in 1867—or, in other words, for every 100 cases of primary

were all orders and a second of the control of the

We must defer further notice of this report, merely saying that in abundance and variety of information it is considerably above the average of the series to which it belongs.

NEW BOOKS, WITH SHORT CRITIQUES.

The Repid Cure of Ansurium by Presume: Illustrated by the Cuss of Mark Wilton, who was Cured of Ansurium of the Abdominal Arts in the Year 1884. By William Murnar, M.D., etc., etc., Lecturer on Physiology in the University of Durham, Consulting Physician to the Children's Hospital, Newcastle-

on-Tyne. London: J. and A. Churchill. 1871. Pp. 43.

** So long as the temple of Medicine stands, so long is Dr. W. Marray certain of a niche, as the man who carried out the principle of the rapid curo of a neutrain by pressavenunder-follors-form, in a conspleuouscase, to a happy conclusion. This little book severas as record of the case, and the severas as record of the case, and the control of the current of blood through an aneurism so as to allow of a gradual deposition of fivine in layers, but the use of means for producing "the complete stagnation of a mass of blood in the aneurism until it coagulates." The patient was a man aged 28, a paviour, consequently liable to severe exertion. During elseven months he had comfore which he was blistered, seched, etc., etc. Ceming under Dr. Murray's care, he was found to have an aneurism the size of a large orange, so

(a) In this column we have extracted the figures given in the extended table in page 311, as, owing to a typographical error, those in page 310 are not quite correct. situated that there was just room to compress the aorta below the left free borders of the ribs and the umbilious. In this space pressure was applied, under chloroform— the first time fruitlessly, the second time with better re-sult; for during the last of the five hours during which it was applied the turnour lost its pulsation, and so did the sorta and every branch of it below. The patient became feverish, and passed no urine for some hours, and was numb and sore in the belly and limbs; but these symptoms slowly disappeared, and he was able to resume his ordinary occupa-tions with the ancurism cured. In 1870 he died of another ancurism of the aorta higher up, near the colinc axis. A post-mortem examination confirmed the diagnosis, and showed the enlarged anastomosis of the epigastric and internal mammary arteries, and of the branch of the hepatic, by which the circulation was carried on. The writer does justice to Mapother, Holden, Lawson Tait, Heath, Lawson, Russell, Banon, and others who have either practically led the way or who have followed in the wake of this kind of treatment.

Street's Indian and Colonial Mercentile Directory for 1871.

London: G. Street's Cornhill. Pp. 617.

*India, Ceylon, China, Japan, the Eastern Archipelago, Java, the Philippine Islands, the Mauritius, Australia, Now Zoaland, Tasmania, South Africa, Canada, British Columbia, South and Central America, West Indies, Gibraltar, Malta, and Constantinople are included in this carefully compiled directory. customs tariffs and principal products of each country are given. Nearly 200 cities and towns are concisely described, the population, means of communication, trade returns, etc., being stated, followed by the names of the consuls, banks, merchants, and a "classified list of professions and trades." The utility of this " classified list of professions and trades." work to manufacturers having commercial relations with the countries cummerated is sufficiently obvious. exceptions, our own Profession is represented at each city or town, and our confrers who contemplate trying their fortunes in the colonies will do well to consult this directory, and inform themselves of the extent to which the colonial field of Medicine and Surgery is already occupied.

Lectures on the Lous of Life; with special Reference to the Physical Education of Girls. By ELIZABETH BLACKWELL, M.D. London: Sampson Low, Son, and Marston. 1871. Pp. 176.

This is a reprint of fectures originally delivered in 1852; is, for the most part, a rational protest against the system of cramming girls with accomplishments, and neglecting their bodily development. One point in which we must cordially agree with the author is the plea for the extension of time in fermale clucration; so that, before seventeen, the greatest pains should be taken to secure good bodily strength and develop-ment, and to train the senses and moral faculties, superabiling to this a course of education which should last to four- or five-and-twenty, in which such science and language and know-ledge of art may be acquired as shall fit a woman for society or business, and, above all, to be the manager of a household, the mother of healthy children, and the companion of a busy and thriving husband.

PROVINCIAL CORRESPONDENCE.

SCOTLAND.

EDINBURGH, May 15.

DURING the past few months the female Medical students and their friends have not been idle. Frustrated in their attempts to obtain clinical instruction in the wards of the Ro Infirmary, th y have been directing their attention to other smaller Hospitals with the view of turning them to account.

As the Royal Infirmary is the only one which contains the As the Royal antimary is the only one which contains the requisite number of bods, various plans have been proposed by which, independent of it, the ladies might obtain a qualifying clinical course. It has been suggested by some that two of the amaller Hospitals might combine their wards for this particular purpose; others have proposed that to one of them should be added sufficient additional beds to make its instruction qualifying; while some more haphazard individuals have recommended the ladies to seize whatever opportunities they could get of attending at such Hospitals, in the hope that the University might ultimately be prevailed upon to recognise such attendance as, under the circumstances, sufficient.

But the ladies' friends considered how to cook their have before they caught it, and having spread their net full in sight of the game, no wonder the game got shy, and was not to be

caught. Your readers are already aware that the managers of Leith Hospital recently determined not to entertain their proposals for adapting that institution to the purposes of clinical instruction. On Thursday last the directors of the Royal Hospital for Sick Children, on the unanimous recommendation of their committee, appointed to consider and report

on a similar application, came to a like decision.

The committee appointed by the directors of the Royal Hospital for Sick Children must have had a difficult task in coming to the decision at which they finally arrived.

coming to the decision at which they hastly arrived.

Amongst the public generally the prevalent feeling was that in it, of all Hospitals, the presence of female students could be least objected to, and that, if ladies were to study Medicine at all, the department of children's diseases was one of the branches of study for which they were best fitted. It may be remembered that, when the question of admission to the wards of the Royal Infirmary was discussed at the last meeting of the subscribers, the lady students were twitted with never having sought admission to the Children's and Maternity Hospitals, where, surely, were to be found the subjects of greatest interest to them.

The taunt was a just one. Everyone, except the ladies themselves, expected that—coming forward, as they professed to do, on behalf of suffering womanhood—they would have manifested a special interest in these Hospitals. It would have been politic on their part, to say the least of it, to have sought the earliest possible opportunities of obtaining clinical instruction in those branches of Medicine which they professed it to be their intention to practise, and it is telling against them now, that they are only falling back upon these Hospitals as a sort of forlorn hope. It is impossible accurately to guess what were the difficulties which occupied the committee of the Children's Hospital for several days; but a good deal may be gathered from the unanimous decision at which, contrary to general expectation, they ultimately arrived —viz., "That, as this Committee feel it impossible to decide

upon the question involved in the application now before them agon are detected interesting an opinion on the general ques-tion of female Medical education, which, under present cir-cumstances, they are not prepared to do, they think it inex-pedient that this Hospital should take any action in the matter and would recommend to the Directors that they should post-and would recommend to the Directors that they should postpone its farther consideration until such time as the position of the necessary qualifying and licensing bodies with regard to it shall have become defined."

At the meeting of the directors on Thursday, the course recommended in the above resolution was almost unanimously approved of. The position which they have thus assumed is a neutral one, but it indicates a determination not to be made use of as a lever for the purpose of acting on other more responsible bodies, as well as a reluctance to take the initiative in a question which ought to be decided by the responsible authorities, and by so doing to place themselves in an attitude of antagonism to these anthorities.

The University has already receded from its original position, having shown an unwillingness practically to acknowledge and bring up its newly adopted children; and it is generally believed that the school of the Royal Colleges is about to follow its example. When those powers that be thus refuse to teach those whem they have recognised as students, it would ill become an institution like the Children's Hospital to go farther.

The result of these adverse and wise decisions will be that the ladies-if they are to continue their contest here-will bo obliged to fight it out on the proper field, and without the advantage of any side-thrusts from allies, unwittingly and nawillingly entrapped into an unexpected antagonism. will have to begin where they ought to have begun long ago

at the beginning.

The first question to be settled is, Have they or have they not a legal right to be admitted to the Medical schools as "students"? If the word "students" shall be proved to include females as well as males, then they will have an unquestionable right to every class and every advantage in every Medical school. If the reverse should be decided, then legislation alone can give them any right to the advantages which they now claim. The present state of the question is a dis-grace to all parties who have mixed themselves up in it—it is confusion becoming gradually worse confounded.

With regard to the ultimate issue of this female physic estion, I do not agree with the writer of the letter signed question, I do not agree with the writer of the retter signed "M.D." in the Medical Times and Gozette, May 6, in thinking that the advocates of the movement "will one day return successfully" to the charge. I daily come across old supporters of the ladies, to whom a further experience has taught a change of views, and who are now decidedly opposed to them. My own firm conviction is that the days of this struggle in Edinburgh are numbered. If anything more than another has ourge are summered. If anything more than another has strengthened this conviction it is the signs of desperation which are seizing the party. Within the past week three letters have appeared in the Sectaman from subscribers to the Boyal Infirmary, in which the writers threaten to withdraw their annual subscriptions if the ladies are not admitted. Could more contemptible tactics be conceived? Can this be characterised as other than the very madness of despair? It is maduces, for the opposite party might retaliate with the same threat. It is suicidal madness, because by ceasing to be subscribers they cease to be voters, and thus cut their own throats

IRELAND.

DUBLIN, May 24.

DUBLIN SEWAGE DIFFICULTIES. The sewage difficulty, which besets every community of any size at the present moment, has received at the hands of a Committee of the House of Commons a strange solution. will just preface a few remarks on the subject by glancing at wan just presnee a few remarks on the subject by glancing at the interests mainly involved in the question; they seem to be comprehended in the following:—In years good swught to be avoided by the water-closet system, first brought into use by Bramab. This system soon made itself, felt by the serious amount of contaminated water, and the more solid parts of excrementitious matter mixed through it, which mutually reacting one upon the other gave rise to which mutually reacting one upon the confergers in sections and even fital consequences, by permeating many soils, and so poisoning well-water and the soil and air, in the case not only of cities, but sho of towns and hamlets. The action of the then Board of Health, about the year 1849, ended in the selection of waterounces or the sea as the outlets for these matters, which had proved so deleterious at closer quarters. Short, however, was the respite afforded by this change, for soon it was found that the very source of water-supply to millions had become offensive and poisonous. With this result of its action made patent to every nose, and showing itself in or its action make patent to every noe, and anowing itself in serious bills of mortality, disfavour began to be shown towards the then Board of Health. Fublic opinion once aroused against thin institution, other plaints were entered against it, many, no doubt, being groundless. At length, however, it was abolished. Suspicion now attaches to the most recent expedient for transferring the nuisance further away from our houses, by the plan known as the intercepting main-drainage systems, coupled, in almost all cases, with some scheme or other of sewage irrigation, this latter having recommended itself in the hope that more abandant feeding would be obtained for cattle-the price of the latter having risen so enormously of late. But here again we have been doomed to disappointment; for excellent authorities now show that such use of the enemy, which should be our friend, acts so injuriously on human life that residence in the vicinity is nnhealthful and even dangerous. For this reason, and because it has been found unremunerative, the public voice is raised against irrigation-so much so that the Committee of is raised against irrigation—so much so that the committee or the House of Commons has arrived at the determination to the House of Commons has arrived at the determination to sum of money to enable that body to concentrate the swange of some 300,000 people, and discharge it by sewers (in some nases over eight miles in length) into a couple of reservoirs— one to be used for subsidence while the other is being filled. It is asserted that in this way all the solid matters will be separated from the supernatant fluid, which is to be allowed to separated from the espernatant fluid, which is to be allowed to run into the see, only at that time of tide most favourable to its being carried out to sea. It was stated, we learn, that during sixteen hours of every twenty-four there will be no flow of sewage through the main sewers. It was also stated by the engineering evidence in favour of the Bill that the deposit in the great apphons which will be required will amount to extremely little, if any—which is doubtful. Pump-ing-stations will also be required to elevate the sewage, as he natural gradients of the large districts to be drained are, it appears, to be disregarded. A large extent of the surface-drainage of the watersheds of the Dodder, Swan River, and Camac are to be concentrated by large sewers to naver, and cause are to be concentrated by large sewers to terminate in those of the city of Dublin, adding greatly to the costlines and liability to injury of the latter, whilst the people of the city are to pay for the construction of their sewers, thus increased in size and costliness. To meet the wants of their

generally much wealthier neighbours living in the suburbs, they are to be taxed to the amount of eightpence in the pound, while the suburbans are to pay but fourpence. Besides the in-fliction of this heavy taxation, the impoverished inhabitants of the older parts of Dublin have sufficient germs of ill-health amongst them without the introduction of sewer gases disseminated through their ill-kept and narrow streets and courts from a long and complicated network of sewers.

GENERAL CORRESPONDENCE.

ISOLATION OF SMALL-POX PATIENTS. LETTER FROM DR. SEPTIMUS GIBBON.

[To the Editor of the Medical Times and Gazette.] Sir,-One of your contemporaries has, without any sufficient grounds, stigmatised me as an opponent of the above means of preventing small-pox. The facts of the case the Lancet reporter on small-pox alludes to are briefly these :- On the 15th inst. I was, owing to the illness of the parish Doctor, asked by the relieving officer to enforce the removal of a pauper to the reneving officer to enforce the removal of a pauper to the Small-pox Hospital at Hampstead. On examination, the child, aged 4½ years, proved to be in the tenth day of confuent and unprotected small-pox; secondary fever had set in, and it appeared to be much too ill to be moved. It was lodged in two rooms, on the second floor, in one of our most open and healthy courts—viz., Birkbeck-place, Lamb's Conduit-street, and was well tended by its mother and aunt. The rest of the family, consisting of the husband and three children, were well accommodated in the basement of the same house; so that, in my monasced in the observant of the same nouse; so tank in my opinion, it could scarcely be said that, in the terms of the Sanitary Act, this child was "without proper lodging or accommodation, or lodged in a room occupied by more than one

The sufficiency or insufficiency of this latter condition must, of course, be decided by the magistrate on evidence. I regret, therefore, that in this instance he granted an order for removal on an er parte statement, and without the parents having had an opportunity of being heard. It would have been of interest to Medical Officers of Health to have heard what degree of isolation would have satisfied the intentions of the Legislature.

In cases of scarlet fever, I have had experience that effectual isolation can be secured in one room of a house containing several unprotected children, by the use of disinfectants-viz.

several unprotected children, by the use of disinfectants—vir., carbolic acid—where, as in this case, you can have a person to attend upon the patient, and the patient only.

I am a staunch advocate of isolation as a preventive of all infectious diseases, and very much regret to think that its efficacy during this epidemion has been questioned, owing to the fact that many patients have been discharged from our large purper Hospitals before that when the product of th without being submitted to a process of thorough disinfection.

I am, &c., SEPTIMUS GIBBON,
Medical Officer of Health for Holborn District.

INJECTION OF AMMONIA INTO THE VEINS. LETTER FROM DR. JAMES EDWARD NEILD.

[To the Editor of the Medical Times and Gazette.] Sin,—I enclose you the newspaper account of a case of poisoning by chloroform, in which the immediate effects of this agent

mg up canonsorm, in which the unmentate effects of this agent were counteracted by injection into the veits of liq, ammonise. The history of the case is briefly as follows:— A young man, aged 28, who had been drinking hard for more than a month, swallowed, at half-past four in the afternoon, a fluid onnee of chloroform. A few mitutes afterwards he was made to take an emetic of salt and water, which caused him to vomit some of the poison. In about a quarter of an hour he was comatose. Mr. Gillbee saw him between five and six o'clock, and used the stomach-pump, and adopted some other routine measures for resuscitation. About seven I saw him in consultation, and suggested the injection of the ammonia. The man's condition at that time was extremely critical. He was nnconscious, and perfectly insensible to any kind of atimula-tion; the breathing was laboured and stertorous, and, as the air-tubes were manifestly full of thick mucus, he seemed every air-tubes were manifestly full of thick muchs, he seemed every moment in danger of suffocation. The pulse was fluttering, and exceedingly small; the pupils were dilated; the extremi-ties cold. Half a drachm of the liq. ammonie (British Pharma-coponia) was injected into the median cephalic vein of the left

arm. The pulse immediately improved in volume, and became regular; the pupils at the same time contracted, and the breathing was less laboured. In about twenty minutes we repeated the injection in the same vein, and with a like improvement as the injection in the same vein, and with a last injection.

At the expiry of twenty minutes more we injected the same quantity of ammonia into the median cephalic vein of the right arm. The pulse was thereupon singularly improved, and the respiration correspondingly so.

At each expiration he ejected a quantity of thick, frothy mucus, alightly tinged with blood. We then left him for about threealightly tinged with blood. We then left him for about three-quarters of an hour. When we returned, the breathing had greatly improved, and the air-tubes were evidently free from the nuncous obstruction. As the pulse, however, was still feeble, we injected a fourth quantity of liq. ammonis, with the same indications of benefit. In twenty-five minutes from this last injection, slight sensibility was found to have returned. The pulse was then 140; small, but quite regular. returned. The pulse was men 140; sman, our quite reguest. The pupils had contracted. About a quarter to eleven, on my titillating the nostrils, he slightly raised his arm, and from that time he progressed to complete consciousness. In the course of administering the ammonia the body had steadily become warmer, and was now all over warm, and over the precordia perspiring. The next day he complained of weari-ness and of dryness of the fances, but he walked about in his ness and of dryness of the fauces, but he walked about in his room, and did not appear greatly different from a man suffering recovery from drink under ordinary circumstances. This was on the Friday. During the night he rested moderately, but on Saturday morning, about six, he had alight delirium, and at seven he had an attack of synope, and suddenly died. The analysis of the seven delivery of the brain, enlarge-ter analysis of the seven delivery of the complete walked idiation and commercial ordinary of the brain, enlarge-ter and the seven delivery of the seven delivery of the seven idiation and commercial ordinary of the seven delivery of the seven lidation and compression of the left lung, and a thin-walled heart. These conditions, coupled with the fact that the tissues were completely saturated with alcohol-the brain strongly smelling of it—were sufficient to predispose to fatal syncope. I cannot but think, therefore, that if this man had been otherwise healthy, the ammonia would have permanently recovered him from the effects of the chloroform, and I venture to submit this case as an interesting example in proof of the efficacy of the treatment adopted by Professor Halford, first in snake-poisoning, and afterwards in other kinds of poisoning where the nervous system is powerfully depressed.

I am, &c. JAMES EDWARD NEILD, M.D., Lecturer on Forensic Medicine in the University of Melbourne. Melbourne, Victoria, March 27.

THE ORIGIN OF THE GUINEA-WORM.

THE following is an extract from a private letter sent home by Dr. Clarence Cooper, of the 5th Madras Native Infantry; it is dated Secunderabad, April 4. Dr. Cooper writes :-

"I have lately been busy in trying to find out which animal, out of a great number, it is which becomes converted into guinea-worm. A great many of the men in the 5th suffer from it, but almost nine out of every ten belong to either No. 7 or No. 8 Company, who draw their water from a particular well. Under the microscope I found it alive with animalculæ, and I have an idea that I have hit upon the one that grows into the worm when it has found its way into the body, probably in the form of an ovum, through the pores of the skin. My animal, under various forms, looks like this—

aud cuts about very actively, apparently by contracting ragge on his abdomen, like a snake, or rather like some molluses. The spike or spikes in front of 3, 4, and 6 seem to be retractile, and are, I fancy, intended to assist the animal in piercing the fibrous tissue. Many have a reddish spot; I fancy it is the heart, and the tail part of all is full of granules or ovules.

"Perhaps all this will end in nothing beyond what I have already had done, which was to have the well completely emptied out, and all the mud also removed from the bottom. Since this has been done I have not been able to find any more auimals, and the result may be beneficial, but as the animals can lie dormant in the system for about a year, no great change can be expected at once." THE RECENT SERIOUS CHARGE AT THE LAMBETH POLICE-COURT.—AN EXPLANATION.

LETTER FROM DR. STEPHEN DURS.

[To the Editor of the Medical Times and Gazette.] SIR,-Having seen a report, in last Saturday's Telegraph, of certain proceedings at Lambeth Police-court with reference to a serious charge preferred against two persons for attempting to procure medicine with intent to cause abortion, in which the mention of the name of "Dr. Duke," without an address, has caused me considerable annoyance, I think it right to say into caused ne considerable ampliance, I mini it right to say that I am the only Dr. Duke practising in the submbs of London, and I am in no way connected in business with mist-consin, Mr. Benjamin Duke, who figures so conspienceally in the case. I am, &c., STREHEN DUKE, M.D. I, Langton-place, Vasseall-road, Brixton, May 24.

REPORTS OF SOCIETIES.

CLINICAL SOCIETY OF LONDON. FRIDAY, MAY 12, 1871.

Dr. W. W. GULL, President, in the Chair.

Mr. Warrington Haward exhibited a patient on whom M. Ma. WARENOVON HAWARD exhibited a patient on whom M. Reverdin's operation of Sking-gratting was first performed by Mr. Pollock at St. George's Hospital. The serv operated upon was caused by a severe burn, was originally about fourteen inches by five inches, and was situated on the right buttock and outer aspect of right thigh. The case has been under treatment for a very long time, but has made a good recovery, and the extension of the leg is almost perfectly, as where of the processing the statement of the size of the processing the statement of the size of the si

Mr. GEORGE LAWSON said that when sores such as ulcers of the leg healed in this way break out again on the patient begin-ning to walk about, those portions of skin grafted on did not

Mr. COOPER FORSTER said his first case failed because the woman would persistently pick off the pieces of skin as they grew. As to getting skin, that might be done from amputated limbs immediately after removal. This answered (as he had tested) perfectly well.

Mr. Callender was glad to see this result in Mr. Pollock's

case. He had seldom seen a more unpromising case when the experiment was tried. He had noticed in several cases that spots of grafting in the centre of a large sore did no good; when planted near the margin, they speedily extended, and formed bridges of skin to the textures at the side. He had ono

now being treated by this process.

Mr. T. Sauth said that it had been found in Bristol that the skin of an amputated part did quite well. This had been severely samo an amputated part and quite west. Into sad been severely tried at St. Bartholomew's in one case. The skin removed from an amputated limb was carried about for two hours before application to the ulcer, but was kept warmly wrapped up in lint. The case did well.

The PRESIDENT thought it might be of some importance under such circumstances to ascertain fairly the nature of the individual's constitution who had supplied the skin, as disease

might be introduced by it.

Assurance was given that in all cases due care of this had

been taken.

Mr. Cooper Forster read notes of a case of Naso-pharyngeal Polypus. The subject was 19 years of age, and had a large growth filling up the left nostril, which appeared firm, fleshy, and fibrous, and covered with mncous membrane. The right nostril was not much interfered with; no swelling of the face nostril was not much interfered with; no swelling of the face or fulness of the palate, or any projection in the throat. Chloroform was given, and a wire snare put round the growth, which broke off, and bled profusely. Mr. Forster then made a further examination, and, having passed his finger up the nostril, found an enormous growth, which could not be circum-scribed, but large portions of which he tore away with forceps. Four days after the operation the patient suddenly became unconscious; the right half of his face was numb, and, though he rallied he was never able to sneek except as av "Texates." the railied, he was never able to speak except to say "Too-too,"
The temperature rose to 102° Fahr. He had three convulsive fits on the seventh day, and became totally unconscious, and died twelve days after the operation. The post-mortem examination showed general arachitis, and sloughing of the brain about Broca's convolution. That portion of the growth which had not been removed occupied the left side of the external base of the skull, and filled the space between the greater and lesser

wings of the sphenoid, the orbital plate of the frontal, and the cribriform plate of the ethmoid. It had extended from the nasal fossa by way of the sphenoidal fissure into the back of the orbit, but without damaging the optic nerve. cribriform plate of the ethmoid was broken, and at the back part there was a small opening about a quarter of an inch in diameter, and a fracture extending forwards from the opening.
Microscopic examination showed the growth to consist of small fusiform cells and stellate connective tissue. Mr. Forster, in alluding to the advisability of bringing forward for discussion unsuccessful as well as successful cases, remarked that though it might possibly have been advisable not to have proceeded further in the operation when the true character of the growth was apparent, yet, under any circumstances, the life of the patient could not possibly have been much prolonged. He submitted to the Society four reasons as to the brain complication : mitted to the Society four reasons as to me orain compinence—

1. As to the idea offered that the forceps might have broken
the bone of the skull in the act of operating, Mr. Forster said
the instrument used was a pair of strong bone forceps, the length of which by measurement precluded any possibility of this accident. 2. The growth might have been adherent to the portion of bone broken and at the seat of the small ing, and this was the most probable explanation. 3. The growth might have already destroyed the bone and reached the membranes, so that the brain was exposed in the course of the operation. 4. The mischief might by contiguity have extended om the periosteum to the membranes. Mr. Forster also called attention to the inutility of treatment generally when the brain became involved.

Dr. Anstie asked the President if he had any belief in the utility of mercury in cerebral inflammation of a non-syphilitic

character.

The PRESIDENT considered the case of great interest Medically. The tumour was akin to a malignant structure. Had the operator known this, and that it was attached to the dura mater, he probably would not have operated. He asked why this boy should have had twenty grains of calomel, were it not for fashion.

Mr. George Lawson had seen several cases where brain-matter was removed along with polypi, owing to thinning of

the cranial hones

Mr. Thomas Smith asked if they ever removed polypi in any other fashion at Guy's. At Bartholomew's they taught that cutting was better than pulling, and that the cavity of the nose should be laid open to enable the knife to be used.

Mr. SPENCER WATSON thought the rhinoscope would have been of use. From the history, he thought there must have

been some protrusion of the eyeball.

Mr. CALLENDER asked the condition of the brain itself. Mr. ARNOTT had seen mistakes made in diagnosis of nasal Mr. ARNOTT has seen mastakes made in diagnosis of massi polypi. In one case there was a large projecting tumour, which was very soft. It was not, however, mucous, but spindle-celled sarcoma, with myeloid cells. In another some-what similar case the structure was medularly. From the presence of certain elements he predicted its return. It did so,

and death followed the next operation.

Dr. Silves pointed out that one conclusion drawn by Mr. Cooper Forster was quite contrary to that which the facts seemed to imply. Mr. Forster thought the case favoured the notion of to imply. Air. corsect thought the case havened the notion of the control that the individual had been sphased on. the chief the the day before his death his speech had been quite intelligible. After death, the left posterior frontal convolution was only perfectly softened. Were, then, that the site of speech how account for his speech being intelligible he day before his

account for ms specen being intelligative the day before his death, when the offening must have existed be was not re-sponsible for every portion of the report, part of which had been communicated to him by Dr. Corner. The whole sate turned on the diagnosis. The polypus seemed an ordinary fibrous one; the would have left; it alone had he known it was semi-malignant. He did not like the knife in these cases.

The rhinoscope had not been used. The calomel was probably

given as a convenient purgative.

Dr. Buzzako read notes of a case of Cervico-brachial-Neuralgia, treated with the constant current. The patient, a Neuralgia, treated with the constant current. The patient, a woman aged 65, had suffered for three months from paroxysms of agonising pain in the neck and right arm, which attacked her several tunes every hour, night and day, deprived her of rest, and rendered her arm useless. The neuralgia had followed seizures which sufficiently indicated its central origin, and this, coupled with the are of the patient and the degeneration of her tissues, rendered its current in the lightest degree imition of her tissues, rendered its current in the lightest degree imition of her tissues, rendered its current in the lightest degree imiprobable. Applications of a sedative character had been

useless in relieving her suffering. A constant current derived from ten cells (increased afterwards to fifteen cells) of a Weiss's battery was applied from time to time between the cervical vertebras and the hand, with the effect of producing remarkable relief to her pain, insemuch that, at one time, she thought herself cured. Under the influence of this treatment the herself cured. Under the influence of this treatment the patient was enabled to sew, and to cut her food with the right hand, which had previously been so helpless that she was forced to lift it with the other. With the view of testing the effects to lift it with the other. With the view of testing the effects of the application, it had been intermitted on several occasions, and other remedies, as blisters, sedatives, and tonics, had been employed, but these failed in preventing the paroxysms of pain. Summing up the results of treatment, Dr. Buzzard said that, out of sixteen applications of the constant current, ten had been followed by very great and well-marked relief, two by mode-rate relief, and four by very slight relief. Dr. Buzzard brought the case forward, not as one of cure of neuralgia, but as a good example of the effects of the constant current in relieving pain;

example of the offects of the constant current in reheving pain; and he drew attention to the process because he believed it was a yet very little employed for this purpose in this country, compared to the purpose in the country, or compared and insisted upon abroad for many years past.

Dr. Abrrin offered, as a pendant to Dr. Buzzari's case, two examples of the treatment of neuralgia with the constant current, one successful, the other insuccessful. The first case was that of a married woman, aged 48, borr of a case was that of a married woman, aged 48, borr of a nenrotic family, and herself the subject of migraine in youth, in whom the change of life had passed over quietly some years before. She was attacked with severe and well-defined right neuralgia in the cervice-brachialis. Treatment with every kind of internal remedy and internal application was tried for two months, with none but the most trifling and temporary She then tried country air, without medicine, amelioration. for one month, but returned to town worse than ever. The constant current from ten (afterwards increased to fifteen) constant current from ten (alterwards increased to inteen) cells of Weiss's battery was applied aligh for twenty-four days; the positive pole being applied, alternately, on the various for of pain, the negative pole being applied by the right side of the three lower cervical vertebre. The pain was at once diminished, and ceased altogether at the end of thirteen days; and a secondary anasthesia of the skin, with secondary paralysis of the deltoid, and trapezius were removed at the end of sis of the deltoid, and trapezus were removed at the end of the twenty-four days' treatment. The cure was found per-sistent six weeks later. The other case was that of a hard-worked and III-fed unmarried needlewoman, aged 39, who suffered from double cervico-occipital neuralgia. A variety of internal remedies, and also blistering, having failed, to produce any benefit, the daily use of the constant current was tried for sixteen days. No good was effected by the treatment. Dr. Anstie remarked that the effect of the constant current in neuralgia was very remarkable, but that there were, as yet, neurages was very remarkable, out that there were, as yet some unexplained anomalies in its action. In the large majority of cases it acted as a palliative most strikingly. In not inconsiderable number of cases it appeared to cure the disease absolutely. But in a few examples, like the second case he had read, without any discoverable reason it failed to case he had read, without any discoverable reason it lained to produce any good results. As a general rule it was far less effective in the neuralgias of old persons, with degenerated tissues, than in younger subjects. But occasionally even a young subject, like his second patient, quite failed to derive benefit from it.

Dr. Durrin confirmed the statements as to the use of electricity in neuralgia, even when that turned out ultimately to depend on organic causes. He had recently seen the termination of a case of this kind-viz., neuralgia of the trigeminus. Everything had been tried, and at first the constant current had seemed to do harm, but afterwards to do good, and the neuralgia gradually faded. The patient was well for three months after this, but fell back again, and was again relieved, but next time it failed. Now she showed signs of a central

lesion.

Dr. Althraus said some cases of neuralgia were central, some peripheral. If central, it was best to apply one pole to the sympathetic and one to the head. In other forms of neuralgia, peripheral applications were best. The direction of the current was important, as the good seemed to be done by the positive pole alone. The negative sometimes did harm, and solud therefore be removed as far as possible from the site of the pain—viz., to the opposite side. Epileptiform tie was thus benefited. If this falled, galvano-punerum might be tried. There was no use in trying any plan too long.

The President thought there had been a want of precision in discussing this subject. Certain forms of neuralgia were strictly personal, depending on no organic change. Such forms

were cured by metallic tractors as readily as by electricity. He had tried to investigate the subject for twenty years, and could come to no definite conclusion. It struck him that the constant current does most good because it does the least harm. He would ask the Society to have some more exact discussion on some future occasion. He did not think that the present one was of any clinical value.

Dr. Greenhow proposed a committee on the subject, and Mr. Kesteven seconded the motion, which was not, however. acceded to.

Dr. Anstre had thought unbelief in the powers of electri-eity was fading away. He had been convinced by the most striking proofs, and referred as a final test to Niemeyer's celebrated case.

OBITUARY.

DR. PHELAN, LATE POOR-LAW INSPECTOR. (From the Dublin Freeman's Journal, May 22.)

On Saturday, at noon, there passed away from our midst a truly, a thoroughly good man—may we not say a great man, if to have worked for a long life with unparalleled success for the benefit of the poor of Ireland gives a right to the name. He was an Irish Howard, devoting himself incessantly, not to poor prisoners merely, but to the whole mass of our countless destitute. In early life a nameless, unknown Practitioner in a small provincial town, Dr. Phelan, feeling acutely the deficiencies of the dispensaries of that day, took upon himself, with a generous and noble courage, the arduous task of making at his own cost and peril a general inspection of the dispensaries in every province and every county in Ireland. The result of this tour was that remarkable work, "The Medical Charities of Ireland," in which one is at a loss which Charities of Ireland, in which one is at a loss which most to admire, its extreme painstaking accuracy, or its horest, bold, uncompromising truthfulness. It is mainly owing to this book, and to Dr. Phelan's subsequent and unre-mitting labours in the same field, that our Irish dispensary system has attained its present high repute, far above that of either of our more favoured sisters, Scotland or England. Dr. Phelan the country is further mainly indebted for that most valuable boon, the workhouse fever hospital, which supplied a crying want, and gives most opportune relief to thou sands, not of the extreme destitute only, but of the whole humbler classes in the rural districts, whose only resource in fever cases had been the far-off county infirmary. Upon our lying-in Hospitals, too, he has left his mark—the benevolent mark of the kindly reformer-and recent strictures of his on that matter will probably have the effect of saving many valuable lives. As a Poor-law official it would be hard to valuable lives. As a Foot-law official it would be hard to appreciate dully, impossible to commend too highly, Dr. Phelan's untiring industry, his minute carefulness, his zeal-ous and anxious devotion to duty. As an Irishman, he was a grounce patriot, an ardent lover of his country, and always took, as long as the field was open to him, an active and influential part in the performance of every civic duty. And, as usually happens to thoughtful, far-seeing men, he was long before his time, and some forty years ago he proclaimed, almost prophetically, that sound political doctrine which is now in the ascendant, that the true course for Ireland is to demand a federal reconstruction of her union with England. And so, in the fulness of time, he had completed his 86th year; going to meet the great reward of a well spent-life, he passed on painlessly to the spiritual world, it being exactly true that he gently and almost imperceptibly "fell asleep in the Lord"

-obdormivit in Domino.

FREDERICK WILLIAM RICHARDS, M.B., F.R.O.S.,

FREDERICK WILLIAM RICHARDS, M.B., F.R.O.S., OF WINCHESTER, Dign on February 23. Those who entered St. Bartholomew's in 1861 will well remember Richards, the highest and best man of his year. Educated at Merchant Taylor's School, and subsequently a pupil of Dr. Butler, of Winchester, and having already passed the Matriculation and Preliminary Scientific Examinations at the University of London, taking at the former honours in mathematics, chemistry, and botany, he came well prepared to the Hospital. Clear-headed, observant, and diligent, working to good purpose, with polished manner, with fluent speech, and ready wit, he became well-known. In his with fluent speech, and ready wit, he became well-known. In ms first year he obtained the first prize for general proficioney and the first for practical anatomy, and in the next the first scholarship in anatomy, physiology, and chemistry, passing the first M.B. examination, with honours in physiology and Materia Medica. Having qualified at College and Hall, he held the post of Obstetrie Assistant, and subsequently obtained the licence of the College of Physicians—graduating M.B. in 1865. In the following year he entered into partnership at Winchester with his old master, Dr. Butler, and if ever a successful Profeasional career might have been anticipated from intrinsic worth, and qualifications both natural and acquired, such was to be expected would be that of Dr. Richards. But his earthly career was to be short, and at the age of 29 he has passed to his rost

Dr. Richards became a Fellow of the Royal College of Surgeons by examination in 1867, and was Assistant-Physician to the Hants County Hospital. He has left a widow and two children.

MEDICAL NEWS.

ROYAL COLLEGE OF SURGEONS. - The following Members ANY ACCOLLEGE SCHOLLEGE - Incliniving alembers of the College, having undergone the necessary examinations on the 22nd inst. in Anatomy and Physiology for the Fellowship of the College, were reported to have acquitted themselves to the satisfaction of the Court of Examiners, viz. :—

Life Saturdation of Life Solidon of Exchanners, vi., 200 Salp data Overomer's 15, 1842. Salp data Overomer's 15, 1842. Churchill, Prederick, Edinburgh and St. Thomas's Hospitals, Presensa, Delamari, Rt. Thomas's Hospital, April 195, 1869. Hardwicks, Junius, of the Dublin School, June 3, 1844. State Shalp of the Lyzdon and St. Thomas's 1844.

1885. Boherta, Charles, St. George's Hospital, April 18, 1839. Solly, Samuel Edwin, St. Thomas's Hospital, May 8, 1867. Square, William, St. Bartholomes's Hospital, April 24, 1862. Thomas, William Robert, Dublin School, May 29, 1863. Welch, Francis Heary, London Hospital, May 8, 1800.

The following gentlemen passed on the 23rd inst., viz.:-

Anby, Alfred, of Guy's Hospital, July 21, 1980-pital, May 19, 1980.
Goodsall, David Henry, of Nt. Bartholomew's Hospital, May 19, 1988.
Law, William Thomas, of Guy's Hospital, May 16, 1971.
Percival, George Henry, Guy's Hospital, May 16, 1971.
Talk, Robert Lawon, Edinburgh and Buramgham Hospitals, January 23,

The following gentlemen, who are not Members of the College, also passed their Primary Examination for the Fellowship, viz.:—

Fellowship, viz.:—
Baber, Pidward Crewedl, of 8t. George's Hospital.
Beaufort, Henry Seymour, of Guy's Hospital.
Beaufort, Henry Seymour, of Guy's Hospital.
Hospital.
Garton, William, of the Liverpool and 8t. Thomas's Hospitals.
Hartrinde, Guisterva, of King's College.
Seymour, Edward, of 8t. Thomas's Hospitals.
Seymour, Edward, of 8t. Thomas's Hospitals.
Sobey, Atthur Lyne, of 8t. Barthdolmes's Hospitals.
Wall, William Barres, of Ulterway College.

The following gentlemen passed on the 24th inst., viz.:-The following gentlemen passed on the 24th inst., viz.;—
Adama, John, 68. Bartholomer Brogital.
Appleyard, John, of University College.
Bliott, Norman Bruce, of Guy's Rogital.
Bliott, Norman Bruce, of Guy's Rogital.
Gonid, Alfred Pearce, of University College.
Bliott, Norman Grant, Grant Bruce, of Guy's Rogital.
Gonid, Alfred Pearce, of University College.
Blootty, Charles Bobert Bell, of the Bull and St. Bartholomer's Hospital.
Koetley, Charles Bobert Bell, of the Bull and St. Bartholomer's Hospitals.
Botter, Charles Bobert Bell, of the Bull and St. Bartholomer's Hospitals.
Schiffer, Edward Albert, of University College.
Storge, William Allen, of the Breatel School.
Wanklyn, Arthur, of the Cambridge, Westmaster, and University College
Hospitals.
Wanklyn, Arthur, of the Cambridge, Westmaster, and University College
Hospitals.

The following Members of the College having undergone the necessary examinations, were admitted Licentiates in Midwifery at a meeting of the Board on the 24th inst. :-

unsty as a moving of the Board on the 24th inst:— Glie, Peter Broone, Saunton-aw-Wyr, diploma of Membership dated May 2, 1871, of University College. Igrett, John Allan, LSA., Sasthorough, April 19, 1871, of the Middlesex Hospital. Stekland, Samuel, Hawkhurst, Kest, July 26, 1870, of Guy's Hospital. Pires, Joseph Octaviano, LE.C.P. Ed., Bombay, January 25, 1871, of St. May 2 Bloopt.

Two candidates having failed to acquit themselves to the satisfaction of the Board were referred to their obstetrical studies for the usual period.

APOTHECARIES' HALL. - The following gentlemen seed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday, May 18, 1871:-

Beech, Lionel, Royal Infirmary, Margute. Clarke, Frederick Howard, Devenport.

Forshaw, Thurston, Heanor, Derbyshire, Jackson, Thomas William, Leyland, Lancashire, Forshaw, names William, Leyland, Laneas Moody, Henry, Erith, Kent. Powell, Lionel Lewis, Melton Mowbray. Younger, Edward George, Blackheath-hill.

The following gentlemen also on the same day passed their first Professional examination :-

Archer, Edward Lewis, St. Bartholomew's Hospital. Price, Hugh Pugh Jones, Manchester Royal School of Medicine.

APPOINTMENTS.

The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

GOWAN, Mr., M.R.C.S. Edin.—Assistant Medical Officer to the County and City of Worcover Pauper Lunatic Asylum. JOLLY, ROBERT, M.D., F.R.C.S.E., Surgeon to the General Hospital, Bir-rathe-ham—Joint Demonstrator of Anatomy at Queen's College, Bir-

Manganan, J. R.C.P. Lond, M. R.C.S. Bar, and L.S.A.—Assistant Lateractic Medical Office to the Bogal Surrey County Heapting County and College of County Heapting County and College of County County, I. R.C.P. Lond, Senior Assistant Medical Officer, and Gromerly Resident Clinical Clerk at the Wort Highing Asylum, Wakefield, —Medical Superintendent of the City Asylum, Stapleton, Bristol, rec Pr. Stephena resigned.

BIRTHS.

B sp.-On May 17, the wife of T. Bond, F.R.C.S., of Parliament-street.

on a unuquier.

Figura.—On May 23, at 12, Chippenham-road, St. Peter's-park, W., the wife of Stamford Felce, M.R.C.P. Edin., of a daughter.

Grav.—On May 19, at 45, St. Giles, Oxford, the wife of Edward B. Gray.

M.D., of a daughter.

M.D., of a daughter.

Inst. No. —On May 23, at The Limes, Linton, Cambs, the wife of Edward Ireland, Surgeon, of a son.

Paul.—On May 19, at Bedford, the wife of Surgeon-Major Paul, M.D., Surgeon to the General Hospital, Madras, of a son.

MARRIAGES.

BESTALL—ASRINS.—On May 15, at St. Mary's Church, Donnybrook, Robt, Bestall, M.D., son of the late William Law Bestall, Eq., Templelyon House, county Wicklow, to Mary Eleanor, youngest daughter of the late William Askins, Esq., of Sandymount, county Dublin.

Larger —Gastrix —On May 16, at the British Consulate, and afterwards at the Episcopal Church, Boulogue-sur-mer, John Stevenson Selwyn Harver, M.D., M.R.C.S. Eng. to Ellen Louisa Marry, eldest daughter of the late Lieutenant-Colonel H. M. Garstin, Assistant Adjutant-General Technwar Division, Bengal

Kirkwood, Army Medical Staff, to Anna Bella, only daughter of Major-General Pottinger, C.B., of Mount Pottinger, county Letrim.

Mackey — Fay.—On May 17, at 8t. Chad's Cathedral, Birmingham, Edward Mackey, M. B., of Birmingham, to Blanch, eldest daughter of Henry A. Fry, Eq., of Edghaston.

OGLE-ROBERTSON.—On May 17, at the Independent Chapel, New Mills, Derbyshire, the Rev. Joseph Ogle, to Jessie, youngest daughter of John Robertson, Surgeon, Manchester.

OSDORN-KROURES.-On May 13, at Christ Church, Dover, Ashby G. OSDORD, M.R.C.S. Eng., to Mary Jenny, second daughter of the late Captain J. B. Knocker, R.N.

DEATHS.

Becreally, Harran, the beloved wife of Leonard Buckell, M.D., in the Pallant, Chichester, on May 18, aged 48.

CHADWICE, ADAM, M.D., at his residence, Heathfield, Greenbeys, Manchester, on May 11, in the 68th year of his age. Dale, Eller, the beloved wife of Edmand Dale, of 9, Gloucester-road, Regent's-park, on May 22, in her 62nd year.

GRAY, MARY KELLOW, relief of the late Robert Gray, M.R.C.S., at 168, Brompton-road, S.W., on May 20.

HUNTER, ELIZABETH GEORGIERA, the beloved wife of Dr. John Gilland Hunter, at Stobb House, Durham, on May 20, aged 22.

RAWSON, ELIZABETH JOSHUISE, SECOND daughter of Thomas James RAWSON, M.D., at Barrowville, Oarlow, Ireland, on May 17, aged 28. SHITH, Dr. CHARLES IRVINO, late Inspector-General of Hospitals, Madras Army, at Montague House, Bath, on May 21, aged 62.

VACANCIES.

In the following list the very of the office wears, the qualifications required in the Candidate two of the office wears, the qualifications required in the Candidate two of the office whose application should be made, and the day of election (as far as known) are stated in succession. CRAING-CENS HOSPITAL WEST STRATO, W.C.—Registers; must be legally qualified to practice, and be registered. Applications and testimonicals to the Secretary, on or before May 3.

COUNTING THE OFFICER PARTY — House-Sorgeon; must have both Medical and Surgical qualifications, and be registered. Applications and testimonals to Adam Fox, Eq., Hon. Sec., 54, Ann-street, Manchester, on or before May 27.

CUMBRILAND INVIRMARY.—House Surgeon; must be legally qualified. Applications and testimonials to Mr. John Laver, Secretary, Carlisle, on or before May 27. Election on June 7.

DENTAL HOSPITAL OF LONDON, 32, SOBO-SQUARE.—Assistant Dental-Surgeon; must be L.D.S.R.C.S. Eng. Applications and testimonials to the Husorary Secretary on or before June 9.

DUNDER BOYAL INFIGUREY.—House-Surgeon; must be qualified to practise. Applications and testimonials to the Secretary, Mr. D. Gordon Stewart, IS, Mesdowside, Dundee, our or before May 31.

East Ribino Lewaric Asylum.—Medical Superint-indent, must be duly qualified and registered. Applications and testimonials, together with a copy of the last Report of the Commosciures in Luncar six the state of the Asylum with which the applicant is now connected, to Mr. F. Hob-son, Beverley, Yorkshire, on or before Jun.

EEDS PUBLIC DISPENSABLY.—Resident Medical Officer; must be duly qualified. Applications and testimomisis to Mr. John Horsfall, 31, Albion-street, on or before June 18.

Leighter Inference and Frum House,—House-Surgeon and Apothe-cary; must have both Medical and Surgood qualifications. Applications and testimonials to Mr. T. A. Weekes, Secretary, on or before June 5. Election on June 13.

LOYION SCHOOL OF DENTAL SCHOOLIN, 32, SOME-SQUARE.—Lecturer on Mechanical Dentistry; must be L.D.S.R.C.S. Eng. Applications and testimonials to the Honorary Secretary on or before June 15.

testimonials to the indicary severatory on or settors June 19. Legescaute Usors.—Medical Officers wanted for five districts of this Union. Candidates must have the qualifications pre-crited by the General Orders of the Poor-law Board. Further information may be obtsized of Mr. John Hoggarth, Clerk, 87, Church-street, Lancascer, to whom applica-tions and testimonials are to be sent on or before May 29. LUTTRAWOATH UNION .- Medical Officer and Public Vaccinator for the dis-

CTRANDATIC DROS.—attendar Universal fruinc vaccinator for the dis-trict comprising the parishes of Arnesty, Bruntingthorpe, Kimode, etc. Candidates must have a certificate of profession; in Vaccination, and possess the qualification prescribed by the General Orders of the Poer-law Board. Applications and testimonials to Mr. James Driver, Clerk, on or before June 7. Election on the 8th.

Macclespield Dispersary.—House-Surgeon; must have both Medical and Surgical qualifications. Applications and testimonials to the Secretary, on or before June 10. Election on the 15th

NAMERICALLY, ON OF OWNERS AND ASSESSED AS A CAPACIAN ON THE OWNERS AND ASSESSED ASSESSED AS A CAPACIAN OF A CAPACI

QUEER'S HOSPITAL, BIRMINGHAN.—Resident Physician and Medical Tutor; must be a Graduate in Medicine of a University of Great Britain or Ireland. Applications and testimonials, under cover, to the Secretary, on or before May 27,

on or retore and 72.

BOYAL GEREAL DISPERSABLY, 25, BARTHOLONEW-CLOSE, E.C.—Resident Medical Officer; must be duly qualified and registered. Candidates to attend at the meeting of the Medical Sub-committee on May 30, at 2 o'clock p.m. Further particulars can be o'damed of the Secretary, Mr. K. J. Downell, ob, Oraccelarch-Secret, E.C.

ART. B. P. ROWSELL, 60, O'RECCRIPTION STREET, IN THE ACCUPANCE OF T

Salpond and Productor Royal Hospital and Dispersary.—House-Surgeon; must be legally qualified. Applications and testimonials to the Secretary, on or before May 27.

Secretary, on or hefore May 27.

Salor Evinemant, Sherwardat,—Resident House-Surgeon; must be a

Member of the College of Surgeons of London, Edinburgh, or Dublia.

Applications and testimonials to the Board of Directors, on or before

June 9.

Sumantar Free Hoseital for Women and Children, Lower Sey-Mode-attreet, Portrar-square.—Physician for out-patients; must be M.D., not practising pharmacy. Applications and testimonials to the Secretary, on or before June 3.

VICTORIA HOSPITAL FOR CHILDREN, GOUGH HOISE, QUERN'S-BOAR, CHILBEA.—House-Surgeon. Applications and testimonials to the Secre-tary on or before May 29.

POOR-LAW MEDICAL SERVICE.

APPOINTMENTS.

Bingham Union.—Alfred C. Taylor, M.B.C.S. Eng., M.B., M.C. Aber. to the West District.

Coventry City.—Henry G. Shorter, M.R.C.S. Eng., L.S.A., to the Second

District. District. Kingston Union.—Wm. Story, L. K. and Q. Coll. Phys. Ire., F.B.C.S. Eng., to the New Hampton District. Final Fract Union.—Alexander Buncle, M.B., M.C. Univ. Edin., to the Sixth District.

Pristagne Union.—Wm. Hanson, L.R.C.P. Edin., L.R.C.S. Edin., for the Union. Thingor Union.—Jno. Joseph Ellis, L.R.C.S. Edin., to the Eighth District.

FELLOWSHIP OF THE COLLEGE OF SURGEONS .- Those Members of the College who have undergone the examination for this honourable distinction will be glad to learn that the high standard formerly required is again revived, as will be seen from the following questions on anatomy and physiology submitted to the candidates on the 19th inst., on which occasion 68 candidates offered themselves — viz., 12 seniors, whose diplomas of Membership ranged from June, 1844, to May, 1863; 15 juniors, from November, 1864, to May, 1871; 15 candidates who had passed the primary examination for the diploma of Membership; and 6 who had not passed any Pro-fessional examination. Of the 20 examined on the first day, there were 9 rejections; on the second day, out of 24 examined there were 8 failures; and on the last day, out of 24 there were 10, making a total of 27 out of the 68 candidates. It will be seen that there were only four questions instead of six as heretofore; but then all were required to be answered, instead of four out of the former number :- 1. What parts are in immediate relation with (1) the obturator internus, and (2) the obturator externus muscles? 2. Describe the development of the human brain from its first appearance in

the embryo up to the full period of intra-uterine gestation, and compare its several stages with the adult brain in the classes of vertebra. 3. Give the dissection required, and mention in the verteina. 3. Give the dissection required, and mention in the order in which they appear the parts that must be removed to expose the otic ganglion; describe its relations and the nerves connected with it. 4. Describe the structure of a "Malpigconnected with it. 4. Describe the structure or a "manpig-hian body," of the spleen, and state the evidence from which it is concluded that the spleen is concerned in the elaboration of the blood. The following were the questions on Surgery and pathology submitted to the candidates on Thursday, the 25th , when eighteen offered themselves for the final ordeal :--1. Describe the diseases which cause undue prominence or protuberance of the globe of the eye; their diagnosis, treatment, and prognosis. 2. Mention the symptoms of loose cartilage in the knee-joint, and the treatment which should be pursued for their relief. Describe the operation which might be performed for the removal of a loose cartilage, and the circumstances which would warrant such an operation or render it unadvisable. 3. Describe the nature, seat, and diagnosis of the diseases which may render the operation of colotomy expedient; mention the steps of the operation, the after-treatment, and probable prognosis. 4. Describe the different modes in which union of fractured bones is accomplished; state the conditions, constitutional or local, under which union may be impeded or

prevented.

ROYAL COLLEGE OF SURGEONS.—The following is an abstract of the unconfirmed proceedings of the last meeting of the Conneil:—On the report of a committee, Mr. Charles Norris Wilde, of College-hill, was appointed solicitor to the College, and it was resolved to invite Sir Roundell Palmer, Q.C., to accept the office of standing Counsel to the College, whereupon an opinion, dated August last year, from Sir John Karalake and Mr. Bevir was read, to the effect that the right of election of a representative of the College to the General Medical Conneil representative of the College to the General Medical Conneil for the control of the College of the General Medical Conneil of the College and the theory of the College of the General Medical Conneil of the College and the three the conneil. The amount meeting of the Fellows summoned for Thursday, July 6 next, and that the usual notices to that effect be went to the Fellows. Mr. Hawkins agave notice of the following motion at the next meeting of the Conneil—viz., "That all legal opinions taken by the authority of the President or Conneil be laid before the Council."

Dr. Pavy, F.R.S., has been elected Physician to Guy's Hospital, and Dr. Pyc-Smith Assistant-Physician.

DR. DONALD MACIVER, Assistant-Surgeon R.N., has been appointed to the staff at Haslar Hospital.

THE Governors of St. Burtholomew's Hospital are about to appoint a Lecturer on Mental Diseases. Applications must be sent in before June 9.

Dr. Clarke has resigned the post of Medical Officer at Homerton Workhouse.

THE Medical Officer of the Privy Council recently wrote to the Council of the Harmacoutical Society, intimating that, unless the Society adapted a value of the Society adapted to the Storage and keeping of poisons, the Privy Council would take the matter in hand at once, in order to give effect to the provisions of the Pharmacy Act

THE fifth annual meeting of the United Hospital Athletic Club will take place at the Lillic-bridge Ground, West Brompton, on Thursday, Jane 1. The sports will commence at 12. The band of the Grenadier Guards will attend.

THE LANY MEDICAL STUDENTS AND CHILDREN HOSTITAL-Vesterlay, at a meeting of the director of Chalmers Hospital, the request of the Committee of Proteins the Medical Education of Women, for the admission of lady students to the wards of the Hospital, was refused—Scottmen, Thursday, May 18.

A GOOD EXAMPLE.—The Committee of Management of the Great Northern Hospital received has tweek 513 II.s. 7d. in aid of the funds of that institution, being the net amount realised by an amateur dramatic performance, originated and carried out a few weeks since at the Holborn Theatre by Mrs. Mantico Davis, of Brunswick-square.

THE Vaccination Inspector furnished to the Islington grandians law week some interesting statistics of vaccination. He reported that he had completed the visitation of \$42 unvacinated children, reported by the late sub-impectors, and had found 467 since vaccinated, 79 removed, 7 dead; 106 had promised to comply within sever days, 20 objected to vaccination, maked to comply within sever days, 20 objected to vaccination, and the property of the

THE new County Lunatic Asylum for Cheshire, at Macclesfield, was opened last week, and is calculated to accounmodate 700 patients.

THE magistrates of Glasgow have been vigorously prosecuting publicans for selling spirits to children under 14 years

secuting publicans for selling spirits to children under 14 year of age.

THE Liverpool Corporation have determined to extend

THE Liverpool Corporation have determined to extend the privilege of free bathing to all children attending elementary schools under the new Education Act. A RETURN of railway accidents for 1870 shows that the

A RETURN of railway accidents for 1870 shows that the total number of persons killed during the year was 286, and 1239 were injured, as compared with 321 killed, and 1232 injured in 1869.

DR. MOREAU MORRIS, Sanitary Inspector of New York, reports that several horses have recently died in the city after feeding on brewers' grains, and that chemical analysis shows that their death was caused by strychnine.

By the advices received on Wednesday, we learn that at Buenes Ayree the yellow fever was diminishing, only about 100 deaths taking place daily; but ensinent Medical authorities believe that the disease will prove endemie, and that the disease will prove endemie, and that the emporium.

AUSTRIA has proposed that an International Conference shall be held, to draw up regulations to prevent the spread of the cattle plague from Russia and the Danubian principalities. Switzerland has sent in her adhesion to the proposition.

MR. JOSEPH M. HIRSH, of Chicago, has succeeded in the production of mannite artificially. In all its properties, especially its medicinal ones, the artificial manna is found to correspond with the natural manna.

THE Exeter Local Board has leased the sewage of the city for twenty-five years to a company, which has undertaken to effect a thorough system of drainage, on the condition that they are granted the sewage for irrigating purposes.

The Madras Athenaum states that a case of leprosy, in a patient in the local Hospital at Ootacamund, was cured by carbolic acid. The disease in this case was not in a very advanced state, but the cure was perfect.

SEVERAL inhabitants, says the Levent Times, of the Darlancies have died from eating poisoned bread; the shops from which the bread was obtained have been shut up, the bakers put in prison, and an investigation commenced by the authorities. It is believed that the bakers were ignorant of the existence of any nozious ingredient in the flour, which, it is said, came from Constantinople.

DEATHS DUINNO THE WAR IN FRANCE.—Amoning the

DEATHS DURING THE WAR IN FRANCE.—Among the numerous deaths among Professional men which have been due directly or indirectly to the late war are those of Drs. Raciborski and Scoutteten and Professors Ehrmann and Longet.

HEALTH OF PARIS,—Dr. Mary-Durand, writing in the Sixiet, and expressing verse that the Mideral authorities in Paris have ceased to publish the Bulletius site Dicks, observed that, teyond doaths occasioned by bulls and shells, the health of Paris is at present in a satisfactory state. The diminutionin the number of fatal diseases, he adds, is explained when the frightful mortality which occurred during the first sege—carrying of children, odl persons, and the sickly—and the enormous emigration which has recently taken place are been favourable to the Medical constitution of the capital. This is, indeed, not the first occasion on which a population bending under the weight of great moral suffering, and living amidst constant alarms and the most cruel angulah, has still, during such a time, enjoyed excellent physical health. "But this must not put us off our guard, for if the civil war subsistence become rare and dear, the indigent population of Paris will be infallibly condemned to again pay a large tribute to death."

Fon the fortnight ending Saturday, May 13, the doubts from all causes in the city of Glasgow were 61, against 692 during the preceding fortnight—a decrease of 21. Of the 671 deaths, 368 were under 5 years. During the same period the cases of fever reported amounted to 262, against 293 in last fortnight—a decrease of 31. To-day there are 365 eases of fever known to be in the city, and of these 342 are in Hoseing that and 23 are in private. These figures show a decrease of 37 upon the numbers known to have been in the city at date of 37 upon the numbers known to have been in the city at date of last meeting. There were also reported 73 cases of small-pox, as against 69 in the previous two weeks, and to-day [May 23) there are 117 cases of small-pox known to be in the city, and

of these 114 are in Hospital and 3 at home. The deaths from fever amounted to 35, and from small-pox to 6. In the previous tever amounted to 30, and from small-pox no . in the previous two weeks the deaths from small-pox amounted to 13. Of the 6 deaths from small-pox 4 occurred in the Magistrates' Hos-pital and 2 in private, and Dr. Russell states that not one of the four individuals who had died from small-pox had been vaccinated.

THE small-pox is spreading at Malpas and Oswestry. Dr. Aldis, the Medical Officer of Health of St. George's, Hanover-square, reported, on Tuesday, a considerable decrease

Hanover-square, reported, on Tuesday, a consuceracie decrease of small-pox in the parish.

According to the latest advices, small-pox still prevailed in the Persian Gulf. Cholera had subsided.

THE small-pox has made its appearance in Queen's County, and in Carlow, Ireland.

SMALL-POX, says the Derby Mercury, has made its appearance in that town.

THE total number of persons vaccinated in Chili in 1870 was 54,000. This is in a population of about 1,000,000.

AT the Rochdale Board of Guardians' meeting, last week, the assistant-registrar reported the death of two children from small-pox. Neither of the children had been vaccinated. The father of one of the children was some time ago fined by the Rochdale magistrates for refusing to comply with the Vaccination Act.

SMALL-POX is assuming serious proportions in some parts of Eccles. Mr. Roe, the Medical Officer, wrote to the Barton-upon-Irwell Board of Guardians last week, and said bacturi-apon-irwen locard or Guardansi sast wees, and sast that "there is a fearful amount of recklessness in the lower classes. A virulent case of the disease died, and on Sunday whole drivers of boys and girls, on their return from the chapel, went to view the body, and on a previous case of death the same toke place."

ONE of the relieving officers of the Holborn Union applied to Mr. Cooke, at Clerkenwell Police-court, last week. applied to Mr. Cooke, at therefore the conce-court, has week, for an order for the removal to the Hospital of a child suffering from small-pox. It was stated that in the house in which the epidemic had occurred several families resided, numbering altogether twenty-seven persons, and one of the rooms was autogether twenty-seven persons, and one of the rooms was used at night for a penny bank. The mother of the child objected to its removal, but, in the interests of the other inhabitanis of the building, a magistrate's order was asked for, with a view to the case being taken to an Hospital. After hearing the evidence of Dr. Stallard in support of the application, the magistrate granted the order, and the possibility of a further spread of the infection is thereby diminished.

spread or the intection is increasy diministric.

SMALL-POX IN THE POTTERIES.—In Longton and Feston small-pox is now very rife. In Longton 27 deaths have occurred, and in Feston 2. There are now under treatment in Longton 186 cases, in Feston 22. The discase has not appead to any of the towns further north. All the local authorities are active in carrying out sanitary work.

Who is Responsible !- A shoemaker at Hoxton had, for nine weeks and two days, a daughter in the Small-pox Hospital at Hampstead. He went very regularly to inquire Hospital at Hampstead. He went very regularly to inquire after her, and was always informed that she was poing on well. At last he was told she was dead and buried. He asked will be had not been told before, and was answered that the parish authorities ought to have informed him. To the parish anthorities he accordingly went, and they said the fault lay with the Hospital authorities. Then he went to the Worshipstreet Police-court, but the magistrate referred him to Hoxton. On Wednesday the Hampstead magistrate told him to apply to the Clerk of the Metropolitan Asylums Board.

VACCINATION .- A Parliamentary return shows that in the year ending at Michaelmas, 1870, there were 785,775 births the year enums at Michaemma, 1879, there were 189410 urms registered in England and Wales.

In England and Wales was the Michaem and the State of the State of the Michaem and the State of the State of the State of the Michaem and the Michaem and State of the Michaem and the public vaccinators was 472,881.

A PECULIAR AFFECTION OF THE NERVOUS SYSTEM,-A PROCLIAR AFFECTION OF THE ARRYOUS SYSTEM.—
Dr. Fieber, of Vienna, writes—"At one of the last meetings of
the Vienna Academy of Sciences, I read a communication concerning a hitherto unknown affection of the nervous system
which I first observed in my division of the General Hospital. It is characterised by an impossibility of executing moderately fast movements through the agency of the will, while extremely slow or very rapid movements can be executed without any obstacle."—Centralblatt, May 6.

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NOTES, QUERIES, AND REPLIES.

Be that questioneth much shall learn much .- Bacon.

In connexion with Mr. Barnard Holt's bag, we would correct a mistake whereby Dr. Barnes's name was mentioned instead of that of Dr. Greenhalgh.

F. R. H. is thanked, 1. The communications will be acceptable, 2. London Fever Hospital.

Mr. E. Newbould (Gisborne, Victoria, Australia) .- Your letter, with enclosure, has arrived safely.

C. Y .- County Lunatic Asylums, according to the general law, are placed under the supervision of the magistrates of each county. Chemicus -In 1861

Elinburgh. -- Dr. Harthill's "busines: card," in the Scoteman of May 17, is sadly out of taste. It may be doubtful how far the following statement will enhance his services in the eyes of the public ;-" Dr. H. holds the diploma of M.D. of the University of Glasgow, and makes no charge for consultation merely, whether personally or by letter.

H. (Middlesez Hospital).-Sir Charles Bell was one of the Surgeons to your Hospital. At the last primary examination at the College all the Middlesex men passed. See Erasmus Wilson's History of the Hospital. A Provincial Fellow,-The annual election of Fellows into the Council of the College of Surgeons will take place on Thursday, July 6: due notice will be sent you. Mr. Spencer Wells will, it is positively stated, offer himself for one of the vacancies. Mr. Carden, of Worcester, will take the chair at the annual festival of the Fellows the same day.

COD-LIVER OIL JELLY.

TO THE EDITION OF THE REVICAL THEM AND GARTIE.

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CORRIGESDA.

TO THE SECTION OF THE

TO THE EDITOR OF THE REDICAL TIMES AND OAZETTE.

BIR.—I observe in a recent number that, in answer to an inquiry as to Mr. Cooper's address, with reference to the salts for watering the streets, it was stated to be "Craig" scourl, "instead of "S. Duke-street, West-misser." Will you be kind enough to correct this error, "M. J. Coopers.

28, Duke-street, Westminster, S.W., May 23. W. J. Coorns.

TWO CASES OF SCHOTBORE.

By THOMAS GERSON, M.D.

Two Casis or Surgroux.

By Thous Ginson, M.D.

J. 8., aged If years, on July, 1989, was travelling on the road with his father, who was in charge of an autitu hone. The day was excessively that the property of the property

assistant times and disactic.

AULIDO, VULNITAS abdoming, and the impacted state of the preturn. Probably the gatient's abdomin, and the impacted state of the preturn of the state of the

COMMUNICATIONS have been received from-

Dr. W. V. Leuri, Mr. F. Warrener, Mosse, Associated Sour, Mr. C.
Dr. W. V. Leuri, Mr. F. Warrener, Mosse, Associated Sour, Mr. C.
Dr. Hastor; Dr. F. R. Houe, Dr. T. Gussoy, Mr. F. T. Pactrus;
Dr. Hastor; Dr. F. R. Houe, Dr. T. Gussoy, Mr. F. T. Pactrus;
Mr. J. Sunstace; Mr. J. F. Williams; Dr. W. L. Warre; Dr. D.
carri, Mr. E. Isatawe; Mr. F. R. Coss; Mr. W. J. Coorse; Dr.
Hastorshop; Dr. Heunis; Dr. Felice; Dr. Dusse; Mr. H. Assorr;
Dr. Hastorshop; Dr. Heunis; Dr. Felice; Dr. Dusse; Mr. H. Assorr;
Dr. Hastorshop; Mr. H. W. H. W.; Dr. C. F. Moon; Dr. Gussoy;
Mr. R. Y. Bastes.

BOOKS RECEIVED.

BOOKS RECEIVED—
Report of the South Lambeth, Stockwell, and Brixton Dispensary—On the Carability of Cancer and its Medical Treatment without Operations, pp. 10. 0, von Schmitz—Dr. Morelli Machenics on the Use of the Largu-pp. 10. 0, von Schmitz—Dr. Morelli Machenics on the Use of the Largu-pp. 10. 0, vol. 10. 0, vol.

PERIODICALS AND NEWSPAPERS RECEIVED.

Journal of Anatomy and Physiology, May, 1811—Olsagow Herald—The Bootsman—Nature—Pharmaceutical Journal—New York Medical Gazette —Birmingham Dally Fost—Medical Frees and Circular—The Dablin Freeman's Journal—The Worcestershire Chronicle,

APPOINTMENTS FOR THE WEEK.

May 27. Saturday (this day).

Operations at St. Bartholomew's, 1\(\frac{1}{2}\) p.m.; St. Thomas's, 9\(\frac{1}{2}\) a.m.; King's, 2\(\phi\), m.; Charing-cross, 1\(\phi\), m.; Royal Free, 2\(\phi\), m.; Hospital for Women, 9\(\frac{1}{2}\) a.m.; Royal London Ophthalmic, 11\(\alpha\).

ROYAL INSTITUTION, 3 p.m. Joseph Norman Lockyer, F.R.S., "On the Instruments used in Modern Astronomy."

29. Monday.

Operations at the Metropolitan Free Hospital, 2 p.m.; 8t. Mark's Hospital for Diseases of the Rectum, 2 p.m.; 8t. Peter's Hospital for Stone, 2g p.m.; Royal London Ophthalinic, 11 a.m.

30. Tuesday.

Operations at Guy's, 1½ p.m.; Westminster, 2 p.m.; National Orthopsedic, Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Ophthalmic, 11 a.m.

BOYAL INSTITUTION, 3 p.m. Rev. Prof. Haughton, M.D., F.R.S., "On the Principle of Least Action in Nature."

31. Wednesday.

Operations at University College Hospital, p.m.; 8t. Mary's, 1‡ p.m.; Middleex, 1 p.m.; London, p.m.; 8t. Barblolomev*, 1‡ p.m.; Great Northern, 2 p.m.; 6t. Thomas*, 1‡ p.m.; Emaritan, 230 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmic, 11 a.m.

SOCIETY OF ARTS, 8 p.m. Meeting.

June 1. Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmie, 1 p.m.; Royal Orthopædie, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmie, 11 a.m. ROYAL INSTITUTION, 3 p.m. Prof. Tyndail, LL.D., F.R.S., "On Sound."

2. Friday.

Operations at Westminster Ophthalmie, 12 p.m.; Central London Ophthalmie, 2 p.m.; Royal London Ophthalmie, 11 a.m.; South London Ophthalmie, 2 p.m.

ROYAL INSTITUTION, 9 p.m. Prof. Thomas Andrews, F.R.S., "On the Gaseous and Liquid States of Matter."

VITAL STATISTICS OF LONDON. Week ending Saturday, May 20, 1871.

BIRTHS.

Births of Boys, 1070; Girls, 999; Total, 2069. Average of 10 corresponding weeks, 1861-70, 2027-9.

DEATHS.

		Males.	Females.	Total.
Deaths during the week		778 672 7	708 600'4	1496 12731
Average corrected to increased population	:		***	1400
Deaths of people above 90			***	***

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1861.	Small-pox.	Meades.	Searlet Fever.	Diphtheria.	Whooping-	Typhus.	Enteric (or Typhoid) Ferer.	Simple continued Fever.	Diarrhose.
Wort		458125	8	9	3	2	9	1	6	1	5
North		618210	113		9	3	8	3	2	***	5
Central		363321	13		5	***	4	1	3	***	3
East		571158	34	3	1		11	1	3	2	3
South	***	773175	99	6	10	3	11	5	4	5	7
Total		2803989	267	11	28	8	43	. 9	18	7	22

METEOROLOGY.

From Observations	at	the	Gree	nwich	1)bserva	to	ry.
Mean height of barometer								29 830 in.
Mean temperature					٠			50°1°
Highest point of thermometer					٠			69.8*
Lowest point of thermometer					٠			36.3
Mean dew-point temperature					٠		٠	41'5"
General direction of wind .					٠		٠	Variable.
Whole amount of rain in the w	190	k.			٠		٠	0.16 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, May 20, 1871, in the following large Towns:-

	lon in 1871.	Acre.	during May 20.	during fay 20.	Tem of A	pera ir (F		Temp. of Air (Cent.)	Re	in II.
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A. (1871.)	Births Registered the week ending I	Deaths Registered the week ending 3	Highest during the Week.	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3209469	41.8	2069	1486	69-8	36.3	50.1	10.06	0.16	0.41
Portsmouth	125464	13.2	76	38	73 4	38 9	51'8	11.00	0.00	0.00
Norwich	81787	10-9	50	25	66.0	33.0	46'5	8.02	0.18	0.46
Bristoi		37.0		52		1				***
Wolverhampton		55.0		38		33.8		8'78	0.02	
Birmingham		48:3			64 2			9.11	0.02	0.13
Leicester		31-7		40			46'7	8.16	0.18	
Nottingham	90490	45'3		27				8'44	0.12	0.38
Liverpooi		103 €			59 1	35.1	48'4	9.11	0.34	0.86
Manchester	379140	84.8		196		***	1	222		
Salford		23-9			57.6				0.63	
Bradford	148030				59.1		46'3	7-94	0.09	0.55
Leeds	266108	12:3			59.0			7:44	0.17	
Sheffield	255247	11'2			61.0			7.83	0.16	0.41
Hull	135195			52	64.0	29.0	43.6	6.44	0.06	
Sunderland		31.5		50			22.		200	***
Newcastle-on-Tyne	136293	25.5		7.4				6.20	0.00	O.CK
Edinburgh	179944	40.0			61.7	27.0	45.6	7:55	0.20	
Glasgow	477627	94'3						44:00		0.45
Dublin (City, etc.)	322321	33'1	9/12	153	66.9	23.5	51.8	11.00	0.07	0.15
Total of 20 Towns in United Kingd'm	7336961	34'4	4906	3510	72.4	27.0	47'2	8:44	0.14	0.36

At the Royal Observatory, Greenwich, the mean reading of the barometer in the week was 29 83 in. The highest was 30 11 in. on Saturday morning, and the lowest was 29 67 on Sunday morning.

and the lowest was 19° ff on Sunday morning.

Note.—The population of Cities and Doroughs for 1871 is estimated on the assumption that the control of the same annual that controls 180 and 1861; at this dictant period, however, from the last of these two censuses, it is probable that the estimate way in some instances be erroneces. The estimates for Luicester, Notlinsham, Leeds, Bradford, and Hull are based upon a local enumeration of the inhabited houses.

The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on April 3, will probably be available before the middle of the year, and will then be substituted for those estimates.

THE SELF-ILLUMINATING OPHTHALMOSCOPE.

Arranged by Professor JAONEL BEALE, F.R.S., Kinger Solkers). May be used to examine a patient in any position, in advisible, generally without atropine. In held in the hand. No desterity required in its management. It adapted to form an Ouscope, Endoscope, Larguescope, April and Landers of the Common Common Companies, and the April and Israel. From the common comm

HAWKSLEY'S PATENT CLINICAL THERMOMETER.

HER MAJENTYS LETTERS ATENT have been granted for this country to about the above into No. 18th or the state of the Above into No. 18th or the safety case, upon which are three cagarway casels, 126. 61; 51-inch ditto, in Nory case, 13. 61; 51-inch ditto, in silver case, for waisteast pocket (fred. Isales), 18. Tot free.

Hawksley's Improved Clinical Thermometer.

Section showing actual size, range 90 to 110.

Fide "Lameet" Report, July 2rd, 1869; Brit. Med. Association Reports, 1989 at the last meeting of the British Medical Association, in a paper aby Dr. Cornelius Fox, on "Clinical Thermometers," it was amounted by Dr. Cornelius Fox, on "Clinical Thermometers," it was amounted that this instrument was far superfer to that of an other maker. Prices cases to the patent instrument, 6-inch, 198. 661; 5-inch, 198. 661; 5-inch [Price Bearles], 115. Post free. Temperature charts bound for the pecket. Descriptive circulars forwarded. Inventor, Patentee, and Sele Maker, London, W. Z. Vangreal instrument Maker, Buthenin-street, Bond-Rock (2000), W. Z. Vangreal instrument, Bond-Rock (2000), W. Z. Vangreal instrument,

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VIDE OPINIONS OF THE PRESS:-

"Medical Times and Gazette," March 11, 1871; "British Medical Journal," April 1, 1871; "Chemist and Druggist," March 15, 1871; "Pharmaceutical Journal," April 22, 1871.

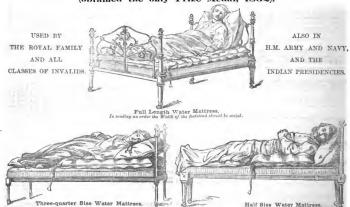
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ORIGINAL LECTURES.

LECTURES

ON THE PRINCIPLE OF LEAST ACTION IN NATURE.

ILLUSTRATED BY ANIMAL MECHANICS.

DELIVERED AT THE

Bogul Institution of Great Britain.

By the Rev. SAMUEL HAUGHTON, M.D., D.C.L., F.R.S., etc.

(Corrected by the Rev. Professor.)

TUESDAY, MAY 30, 1571.

LECTURE II.

Genetrical Classification of Muscles found in Animals-Applica-tion of the Principle of Least Action to several forms of Muscle, demonstrating the possibility of predicting Animal Structures by Mathematical Calculations similar to those used in Astronomy and the other Exact Sciences-Special Illustrations from the Limbs of the Tiger and Wings of the Albatrons.

LADIES AND GENTLEMEN,—In bringing to a conclusion my former lecture, I acted on the principle I laid down of least action. Taking into consideration the feelings of the audience as well as of the lecturer, and judging by my own experience in hearing sermons, I thought that a little less than the hour's lecture would suit your taste. I therefore threw overboard one of the illustrations of the principle of least action to lighten the ship; but, if it is your pleasure to hear it to-day, I shall be happy. I place myself in your hands.

I hold in my hands the flexor tendon of the claud's leg. At

one end it branches into three distinct tendons, and at the other extremity it branches into two. These three tendons are attached to three great muscles which act upon the foot. Three streams of force enter through these three lines, and they are then distributed into two, which two applications of force are carried to the toes of the animal. Similar arrangements are found in almost every animal which has the muscles acting at one extremity of the tendons. These tendons are the ropes of the animal frame, and we have them in both the fore and hind limb. In the case of many animals the fore and hind limbs are used for the same purpose—progression. In such animals as the llama, horse, and cow, the limbs have the same function: as the liama, horse, and cow, the limbs have the same function: their four feet are used for the purpose of locomotion. But in higher animals, such as tigers, bears, dogs, monkeys, and our-selves, we have the fore limbs more or less differentiated and set apart for the use of the brain as grasping organs. In man this is carried to the highest limits, and, with the exception of little children, we have lost the use of the fore limbs as feet, and the hand has to serve the brain—a perfect instrument for carrying out its conceptions. As we should expect, therefore, there are great differences in the hands and feet of the higher animals.

But in both of these, a certain amount of friction must take place round the joints-the wrist and the ankle. If my principle of least action be correct, I should find in the hand of the animal the strength of the tendons above the wrist greater than that of the tendons in the fingers; and so it is. When I take an object into my hand, the force I use comes from a take an object into my hand, the force t use comes from the muscles of the arm, passes through these tendons, and is applied to the object grasped. If the principle of least action be true, again, the united strength of the tendons above and below the wrist will not be the same, but the tendons to the fingers will have the less force by the quantity of friction in the wrist. Then, in the leg, the force comes from the nuscles of the leg; the ground, by reaction, presses upon my foot, and the strength of the tendons is just what is necessary to prevent their injury in overceming it. If least action be true, I should expect to find the reverse of what I find in the hand; the tendons which pass from the foot into the muscles will have a less cross-section. Now, this is positively the fact. I have examined upwards of eighty animals, and found it so. Indeed, animals might well be classified by this action-animals which use the hand as a hand, and those which use their fore-feet as organs simply of locomotion. In the hand of the tiger there is a co-efficient of muscular force of 22, and in the feet of 46. The tendons of the fingers in the tiger's hand are consequently less than in the forearm; the Vot. I. 1871. No. 1092.

tendons of the toes are greater than those in the leg. also, the difference in the tendons represents in each ca friction to be overcome. You are to remember that the friction is + in the one case, and - in the other. I place before you a table of the relative strength in the hands and feet of various animals:

				Hand.	Foot.
Tiger				22.7	46-0
Wolf				31.4	34.0
Virgini	an B	ear		35.0	25.9
Negro				27-4	8.0
Goat				0.0	9.5
Kangar				1.7	0.0

Our cousin, the monkey, is a quadrumanous animal. He uses the foot very much as a hand for the purposes of climbing, as is shown by the low co-efficient in the foot. The most as is shown by the low co-emcient in the loot. The most perfectly constructed animals are the goat and the kangaroo. No force is lost in the feet of the goat. He raises his foot by an admirable arrangement of the wrist. In the case of the kangaroo there is no friction att he heel, and the most perfect organ of locomotion is the hind leg of the great kangaroo.

The investigations which I have carried out show in the m

conclusive manner that the law of least action is attended to down to the most minute details, even to the expense of producing a few grains more or less of this glue—for the tendon is nothing else but a kind of glue. In nature the most rigorous parsimony is employed, and never is more of a substance used when less would do. This might be carried out into minute details, but in a lecture such as the present I have no time to

I wish to draw your attention now to the hind feet of the monkeys in the Old and Now Worlds. Their feet are fully suittled to the name of hands given to them by the great Cuvier; but we might classify the Old and New Worlds monkeys by the arrangement of the tendens of their feet. In the Old World monkeys the tendons of the feet are supplied by two great muscles, the flexor hallness longus and the flexor digitorum longus—the long flexor of the great-toe, and the long regularization ongus—the long flexor of the great-toe, and the long flexor of the other toes. Now, if you observe, you can see the distinction here; the muscle of the great-toe in the Old World monkey supplies half of the first too, half of the second, and the whole of the fifth; whereas the other tendon supplies the whole of the third and fourth, and the remaining half of the first. He would put his great-toe opposite the third and fourth.

In the monkeys of the new world the arrangement is quite In the monkeys of the new world the arrangement is quite different. The flexor of the great-toe goes partly to the first toe, and supplies the fifth. The whole of the second, third, and fourth is supplied by the other flexor. In the Capuchin monkeys, so called from their resemblance to the monks who were a similar hood, and which cross their arms so piously that we think they say their prayers, the arrangement is of this kind. These little creatures place their first and fifth toes together. And in the occupation which is so congenial to them together. And in the occupation which is so congenius to their and so well known, of gathering up small living creatures from the skins of their companions, you will find, if you watch, this view borne out: that while the monkey of Africa prefers to grasp with the first, second, and fifth digits, the monkeys of

grasp with the first, second, and fifth digits, the monkeys of the new world grasp with the first and fifth alone. I now come to the proper subject of my present lecture, which is the dassification of nuceles. The macles of animals were arranged by Giovanni Alfonso Borelli, who divided them into various groups; but I shall content myself with giving you my own classification.(a) I divide all muscles into the fol-

lowing

1. The prismatic muscle, where the muscle passes in parallel fibres simply from bone to bone.

2. The penniform muscle, where the muscle decussates 3. The triangular muscle, where the muscular fibres proceed from along a fixed line and are inserted into a point.

The quadrilateral muscle, where the muscular fibres are arranged in lines converging from one bone to another.

The quadrilateral muscle is nothing but the triangular muscle with the top cut off. It is easily understood in its action as long as the bones of insertion remain in the same plane; but in the motions of its bones it does not always remain in the same the motions of its bones it does not aways remain in the same plane; it is not as accommodating as geometers could wish, and forms akow surfaces. You are probably acquainted with the term from the skee bridges of the engineer. The skee is made up of a number of straight lines, and yet every portion of the surface is a curve. I have succeeded in discovering that the particular skew surface which muscles are capable of

⁽a) These particulars were illustrated by diagrams.

sauming the shape of is known as the huperboloid of one sheet. Here are a number of straight lines passing from point to point, which represent fibres of muscle. I now take this muscle and distort it out of its plane, and I have got a curved surface, in which every portion is made up of separate straight lines. I can curve the surface in the opposite direction, and make a hyper-boloid of one sheet again out of a straight muscle. This is no fiction. The adductor magnus of man, and the great pectoral of every bird are illustrations that Nature constructs, by means of straight lines, curved muscular surfaces of the most beautiful and elegant forms invented by the abstract geometers.

A friend of mine, who is one of the most distinguished of living geometers, told me, when informed that Nature made these hyperboloids, that his respect for her was very much

increased.

The last form of muscle to which I shall rapidly direct your attention is the sphineter, which encloses or surrounds openings, and the ellipsoidal muscle, called so because it is egg-shaped In my next lecture, I shall direct your attention to the most important of these in the heart; and we shall confine our attention to-day to the more elementary muscles which we

have enumerated.

The prismatic and penniform muscles possess the remarkable property-which can be demonstrated mathematically-that no loss whatever of force takes place in their use. Nature is, therefore, entitled to employ these two forms of muscle whenever she pleases. She has no loss in their use, and both of these classes of muscle are therefore most employed. When taces causes or muscle are therefore most employed. When you come to the quadrilateral, skew muscle, etc., you have in the use of these muscles a necessary loss of force. How comes it, then, if my principle be true, that these muscles are employed at all't Because Nature has other problems in view than mere economy of force. She has to consider that if she economises in one way she may have to spend more in another. Beauty was one of the prime views of the Creator, as well as comomy. Nature never uses such muscles, however, except

under great necessity.

The most wonderful of triangular muscles is the biceps femoris in the tiger. The muscular fibres start from a point, and are inserted from the middle of the thigh down to the heel, forming when the mass is stretched, over three feet, lying along the sid of the leg. That muscle exists in every mammalian animal, but in other animals it is arranged as a prismatic muscle—as in myself. Why has Nature deliberately sacrificed a certain amount of force by constructing this muscle in the tiger of a triangular shape, which she constructs in my leg like a straight rough the straight of the stra bard perfect, idea, which was to place a sea concerately nurvan over-bard perfect, idea, which was to place a rope from point to point. She seems to have said, "I must make the tiger the most beautiful creature of earth. There is a certain loss of force in making the fibres of the biceps radiate; but I gain more than I lose by the apparent loss of force."

We can demonstrate that the resultant force of all the fibres of a quadrilateral or of a triangular muscle lies in the bisector of the angle. When I draw this line in the tiger, I find it passes through the top of the fibula-through the very spot into which the biceps muscle of my leg is inserted; so that, though the muscle is triangular, it really works in an imaginary line, as it does in the prismatic. Therefore, Nature has accomplished the ques in the prismistic. Theretore, Nature nas accompaniet to exwer she has to do on the principle of least action with the greatest advantage. The carrying out of the principle in another way would have loss the best packing. She always acts upon the French proveth—Revelop pour mices assiste. I have said before that she is at perfect liberty to use either and the proventies of the proven

the penniform or prismatic muscle. Still, her use of the penniform muscle is very rare; as if she did not like to use her resources muscle is very rare; as it she did not like to use ner resources except when necessary. And although there is no loss of force in the penniform muscle, it is only rarely used. The most remark-able example in nature is the muscle which lifts the wing of the b ird. The bird's wing is flapped by great muscles, but it is I ifted by a muscle placed on the centre of the body to keep the weight far aft. In the ostrich, which does not fly, Nature places it in the neck. In any other bird it would be destruc-tion to have it so. It is placed at an angle of 180 degrees, and runs through a pulley to reach its attachment. The depressor of the wing must be very great, to strike the air; but the muscle to raise it must be made as rapid in action as possible,

Acres and the last

to bring it back quickly; for while the wing is rising the bird is falling. Nature always employs the penniform muscle to raise the wing, because the fibres decussate so that the motion along the diagonal is represented. The wing is thus lifted up with a greater rapidity than if the prismatic form had been retained.

I have selected as illustrations of the quadrilateral and skew muscles first the fore and hind legs of the tiger. I have selected the tiger, because he is the strongest and handsomest of animals with which we are acquainted, and while the world lasts strength and beauty must command admiration. The tiger is stronger than the lion. I am sorry if I disturb our childhood's traditions of the lion as the king of beasts; but the lion is a humbug. He is like some human beings, who have more in their appearance than in their reality. The tiger is the king of beasts. In the reign of the Emperor Titus, a.D. 80, this cruel Emperor had Bengal tigers compelled to fight Numidian lions. The poor Babyloniau lion is a very small animal compared with the African lion, and the tiger easily beats him. But the Roman emperor was determined to try whether the Bengal tiger could fight the African lion, and Martial records that the tigers and lions fought, and that the tigers always beat the lions. He describes the tiger as naturally a gentle animal, accustomed to lick the right hand of the keeper that trusted him. But when this tiger came to Rome (according to the poet's sarcasm) he lost his gentleness, and became possessed of ferocity. He uses these words-

"Lambere securi dextram consucta magistri Tigris, ab Hyrcano gloria rara jugo Sevra ferum rabida laceravit dente leonem; Res nova non utilis cognita temporibus. Ausa ost tale nihil, sylvis dum vixit in atiis Tootquam inter nos est, plus feritatis habet."(b)

Accidents have happened also in some of our English menaaccurants have nappened also in some of our rangus meni-geries, where the barriers between the lion and the tiger have been broken, and they have fought. The tiger, if in good con-dition, invariably kills the lion when compelled to fight. But

I shall give you an experience of my own on this subject.

I have been for many years the Secretary of the Zoological Gardens in Dublin. The claws of the forepaw of these animals, for want of their natural exercise, sometimes grow into the pad of the foot, and this would become gangrenous, and ultimately kill the creatures. Their nails must be pared when this occurs; but the operation is not so satisfactory in reality as it is in appearance. I have performed it repeatedly, and may tell you that it takes eight men to hold down a tiger, when five can keep down a lion. I found in the cross-sections of their muscles after death that the tiger's were more than 50 per cent. greater than the lion's. But the operation of cutting the tiger's greater than the lion's. But the operation or cutting the figer's claws on the first occasion of my trying it was attended with some incidents in which you may be interested. Indeed, if they had turned out differently I should not have been here today. I collected eight men to cut the tiger's claws. We put a large rope round his neck and another round his foot. a large rope round his neck and another round his roof. The tiger watched for the opportunity of putting his sore foot on the ground and slapping me on the face with the other. Un-fortunately, in the middle of our proceedings his companion tigross thought she would interfere, and she behaved not unlike the wife of Hobert the Kenite of old; she put her pew through the bars, and struck me on the back of the hat. In a moment the eight men resolved themselves into their component partsseven of them were cowards; but the eighth was a brave man, and saved my life. This brave man had a hold of the rope. To my astonishment, I saw the seven men running out of the house, and I was left with one helper. The tiger threw up the sliding door of his cage, and I saw that I was immediately to be killed. But my friend held fast the rope until I had time to close down the door, when the tiger rushed at the bars of the cage, and broke his teeth on them. I collected the seven cowards again, and took them with me into the lion-house, putting the key of the door into my pocket. "Now, my boys I said to them, "you onght to be ashamed of yourselves. any accident happens, the tiger will eat me first, and the key in my pocket as well—and he will eat you at his leisure!"

After the operation, the tiger threw himself on his back, and

Acter the operation, the tiger turns himsel on his back, and began to pure and to show by signs of the most unmistakable kind that he wanted me to come; and he was not satisfied until I had put my hands to his moth to lick, and had examined the foot which I had hurt. He carried out to the most minute degree the character given him by Martial.

But it is impossible for me to go now into all details. That must be left for the future. In proof that the principle of least action is applied to tigers, we may look at two conditions —one in the fore and one in the hind limb. We have combined groups of muscles acting upon the arm and forearm. The fatissians deris and teres major act upon the arm, drawing it backwards. The most powerful strake of a man is the backstoke. The backstroke of a grandman will cut a leg of a strake. The the wooning the muscles into co-ordination together. But the wooning the muscles into co-ordination together. But the wooning the major is not related to the depth of the point is not related to the large the major in the foreign the major in the arm and forearm. There is a corresponding law in the hind leg. In the case of the hind leg, the hip-joint is not related to the sheet joint to the heel; in the forearm the shoulder is related to the ellow. This is one of the most remarkable to the ellow. This is one of the most remarkable the Creator. You have seen an engineer on board a steamiship putting his can of oil into the joints of the engine. If the Creator. You have seen an engineer on board a steamiship putting his can of oil into the joints of the engine. If you were to try and do so, you would lose your life in the attempt. That man knows when the joint comes and retreats, and he knows that he can rely upon the motions described and which the can rely upon the motions described and which there is not contrivance and design in it. I am adamed to say that there are intelligent men who look upon more wonderned structures in the world of nature, and yet who cannot re-

cognise the hand of Him who made them. Before parting with this subject, I may be allowed to give a word of advice to the ladies who hear me. Two angles of old egrees, attained simultaneously in the hip and in the heel, are necessary to the proper action of the foot. Anything which interferes with this is most injurious. I am told that it is now the habit among ladies in America and elsewhere to use high-heedle boots, in order to produce the Greeian bend. But I would caution you against the practice. You thereby shorten the action of the between the points of action, and prevent the continues between the points of action, and prevent the muscles of the first work of the properties of the major of the prevention of the major of the prevention of the muscles of the miles and joints and you service of figure. If the practice continues, the lattice the prevention of the properties of the miles and the bright colours on their heads, will be most like the flamingoes of Recent's -park.

I come now to the last and mest interesting application of this principle. The quadrilateral muscle becomes occasionally a skew muscle; the whole forms a curved surface. The great pectoral muscle in the wing of the bird is an instance of It have placed before you two diagrams, which have cest me many hours of hard work—the wing of the albatross, taken from life. The great peetoral muscle runs round the keel, and forms a curved figure. Now, let us imagine ourselves the bird, and throw back the arm; we should then use this muscle. It is inserted into the curved line at the top of the arm.

I believe that I have succeeded in earrying out the principle of least action to such a degree that I could make a prediction. And here I would call your attention to the fact that nothing whatever is worthy of the name of science which is not able to predict onesquences—when certain facts are given, to predict their effects; and whenever conditions can be predicted, predictions of the control of the control

I said to myself, I can trace accurately this great muscle. I know its insertions, and I shall try to predict the unknown about it. Let there be any curve in nature, as the pectoral muscle of a bird at its origin; let there be another curve representing its insertion into the arm; I shall be able to draw the bisector of the angle. But I was also able to draw a right line at right angles to the bisector, to show that, if the muscle of that bird contracts to the greatest advantage, it is in a certain axis of rotation round the joint.

I shall not trouble you with my calculations; but they consist in finding a certain ellipse. There is such an ideal ellipse in the albatrous; and I saw that the minor axis of that ellipse was the curved axis of least action round which the wing of the bird revolved. I chose the albatross for the following reason:—Just as the tiger is the most worthy of quadrupcis, so the albatross is far/the most wonderful of brids. The habits of the bird have been described by the Fortuguese writers, and by Coleridge in his celebrated lines:—

"And the good south wind still blew behind, But no sweet bird did follow; Nor any day, for food or play, Came to the mariner's holloa:

"And I had done a hellish thing, And it would work 'em woe; For all averred I had killed the bird That made the breeze to blow."

The albatross is an animal of very remarkable peculiarities.

He saldem flaps his wing; but he has the power of scaring, so that he is able to keep his height better than any lmown bird. The only other best to compare with him is the condor vulture; and if I were to take a pair of exissors and cut off some of his feathers, he would have the same wing as the abstross. In studying the wings of the engis, hawk, and many others, I saw a sort of type wing in the wing of the abstross. The albatross sleeps upon the water at night; he feeds upon small molluses and crustacea which he finds, or gladly takes a biscuit from the sailors. When morning comes, he sears slowly; for a half-mile his feet tip the water, and then he rises to a thousand feet. If a ship is in sight he follows it; sees one, or one who sees an albatross who sees an albatross who sees an albatross who sees an albatross who sees a ship!

I was five years waiting for an albatross for dissection. If was put into communication with some ship captains of Liverpool who sail these seas; but they all know the stories of the bird, and dread to injuro it. But in spite of this difficulty I obtained my albatross and made my dissection. I spent an lour at its dissection, another hour making measurements upon him, another hour in writing these out; but it cost me conclusions.

It is a characteristic of every true rule discovered, that if we make closer applications we shall find clearer results; but we shall always find certain residual phenomena left unaccounted for. New in this case I have a residual phenomenon. The condor has not only to sour like the albatross, but he is to possess the power of rising from the level of the Pacific Count to the heights of Cotopaxi. There is not a bird which has not two or three things to accomplish.

We have, therefore, every reason to believe that we possess a power of prediction with regard to the wings of birds and toher limbs of animals. In conclusion, there is nothing tentative in nature. We have no cridence that the light describes the path by a series of attempts. The axis to the bight describes the path by a series of attempts. The state that the light describes the path by a series of attempts. The axis to study process. There is no evidence in nature that birds make a succession of blunders before perfection in attained. All is perfect, and was over perfect. The graceful form of the leasuiful tiger and the expanded wing of the albatrons speak to the early and the expanded wing of the albatrons speak to the GROMEN STATE MADE TO 12 DIVINE.

ORIGINAL COMMUNICATIONS.

ON THE ROUTINE USE OF THE OPHTHALMOSCOPE IN CASES OF CEREBRAL DISEASE.(a)

By J. HUGHLINGS-JACKSON, M.D., F.R.C.P., Physician to the Hospital for the Epileptic and Paralysed, and Physician to The London Hospital.

Anorr three years ago I wrote in this journal ("Latency of Optic Neuritis in Cerebral Dissase," February 8, 1889), to urge strongly, as I did six years ago ("Royal Lond. Opltch. Hops. Reports," vol. i.v., 1880), the routine use of the opltchal-moscope in investigations of cases of disease of the nervous system, stating, as one reason, the fact that evry striking ophthalmoscepical changes may exist when the patient believes that his sight is spood, and when he and vant deep them the strike when the patient believes that honce more to urge this point, because I still find the assertion above made is received with great incredulity by some Physicians, and because, since writing the paper referred to, I have had numerous illustrations of the fact stated. I gather from the quotation below given from Graefe, that Blessig was the first to draw statemion to it.

At first glance, it does seem sheer nonsense to speak of severe changes in the optic nerves of patients who can read the

(a) When urging on Physicians the routine use of the ophthalmoscope, I may properly mertion that, to the best of my belief, Dr. John W. Oglier The papers by Tro. Glifford Allbutt, in this journal justice, justified to Physicians. These papers show convisionely the great value of the concentration of the papers when convisionely the great value of the concentration of we instrument of research in the increasing of Alexical Concentration.

smallest type, (b) and who have no complaint to make of their sight. I do most willingly grant that the incredulity of those who do not use the ophthalmoscope is quite intelligible; but the fact is not desired by Ophthalmic Surgeons. From a seientific point of view the necessity of not overlooking a decided pathological condition is obvious. Then it of some importance in a case of severe overbral disease to be

able to tell the patient's friends that sight, probably, will fail; for this prediction when verified will satisfy them that we have not misunderstood the nature of the case in its early stage.

There are few cases on which such different opinions are There are few oass on which such universe opinious are given as those of cerebral tumour and other kinds of "coarse disease," (c) They often begin by symptoms which are not also specially nervous, although really dependent on brain disease. The early symptoms are often put down to stomach derangement, a prient is to over-work, or to some other minor cause. The patient is naturally very anxious to put forward the view that his severe headache, vomiting, etc., are owing only to some temporary derangement, and mostly accuses the liver. He may urge that his illness began by "attacks of bile." I have known the friends of a patient lament bitterly the different opinions that have been given at the carly and late stages of a case of cerebral tumour. Every Practitioner will know of cases of young men who have first severe headache, and, perhaps, urgent vomiting, and scarcely other symptoms, and who occasionally for week even for months, remain able to do their work somehow, even for months, remain able to do their work somenow, especially if, as occasionally happens, the severe pain in the head only comes on in the night. The absence of renal discussion is a supplementally as a strong evidence of the existence of "coarse" discuss inside the head. We often see patients bind from optic neuritis, especially in children who patients bind from optic neuritis, especially in children who are the contract of the contrac that the use of the ophthalmoscope would sometimes save us from the mistake of declaring the symptoms of a case to be of non-cerebral origin, because superficially considered they seem to refer to other organs than the brain. In all such cases the ophthalmoscope should be used, whether the patient complains of defect of sight or not, and when he can read the smallest type. Although the absence of optic neuritis would not negative the existence of coarse disease within the cranium, the presence of the neuritis (double) would, I think, render the existence of this kind of change almost certain in many cases of very severe headache without renal disease; we cannot be quite certain. I had about a year ago a patient under my care, the whole course of whose symptoms-and double optic neuritis was discovered-seemed to point to coarse disease of the brain; but there was no such change found post-mortem; the brain was very much wasted. Nevertheless, I repeat, double optic neuritis occurring along with intense headache, and especially with vomiting (perhaps bilious), is almost certain evidence of the existence of coarse disease of some kind—not of any particular kind-within the cranium.

In cases of loss of speech (aphasia) there may occasionally be discovered marked optic neuritis, when there is nothing in

the patient's bearing to suggest that his sight is defective.

In children it is absolutely necessary to use the ophthalmoscope when they suffer from severe cerebral disease. sionally discover optic neuritis in a child whose parents "have never noticed anything the matter with his eyes."

In cases of acute cerebral disease the patient may be too ill to take any notice of our attempts to test his sight. Here,

again, we must use the cphthalmoscope.

I do not say that we can with certainty predict that sight will fail when we have discovered optic neuritis. It does fail in most cases. I have had, however, under my care a woman in user cases. I have had, lowever, under my care a woman when sight a year had a severe optic neurits in 1867, and whose sight a year had a severe optic neurits in 1867, and whose sight a year had been so far, also, as the test of reading showed, but I have no note of the extent of her field of vision. She could read "Brilliant" type rapidly. The ophthalmoscopical signs, at first very extense, altered remarkably, so that when I saw her last the abnormal appearances in the fundus were so slight that I daresay many, seeing her then for the first time, would have been incredulous that she had ever had severe optic neuritis at all. Yet erouseum that she mad ever had severe optic heurits at all. Yet she certainly had had it. Her eyes were examined in the early stage, not by myself only, but by Brudenell Carter, by Soelberg Wells, and by Clifford Allbutt, of Leeds.

This woman is one of two patients under my care, of whom Mr. Soelberg Wells speaks when writing on conservation of sight with optic neuritis in his "Treatise on the Diseases of the Eye," pp. 399, second edition. He mentions, also, a case from his own practice of uniocular neuritis in which the acuity rrom ma own practice of uncousar neutrus in which the actury of vision remained perfectly normal throughout. I quote the theoretic properties of the properties of the properties of the thalmosopie, ip. 293) narrates an interesting case in which a patient affected with option neutritis retained a normal actured of vision up to the time of his death (which was sudden). The post-mortem commission revealed the existence of interesting optic neutritis, but the retina was healthy up to the optie nerve."
(The italies in this quotation are mine.) In remarks added to reports of several interesting cases of optie neartis at the Clinical Society, October 28, 1870 (see Lancer, November 5, 1870). Brudenell Carter referred to the fact "that a considerable degree of optic neuritis may be present in certain cerebral affections without impairment of vision." In my former paper, 1868, I referred to the opinions of Hutchinson.
The following quotation is from a note by him in the last volume of the London Hospital Reports, 1867:—"In optic neuritis, it is often impossible, from the observation of the state of the disc, to form any opinion as to how much the patient can see. Bader, in his work on eye diseases, p. 485, speaking of the state of vision in cases of inflammation of the optic disc and of the of vision in cases of innamination of the object was and con-rettina adjoining it, anys—"Vision, according to the accounts given by patients, is often hardly disturbed, even if there considerable loss of transparency of the optic disc and of the adjoining retina, with much hyperemia. Only complain patients (even at the height of the inflammation) only complain of a swimming of objects looked at for some time.

Noyes, of New York, commenting on a case of acute neuritis optica from tumour of the brain, reported by Dr. Schiese Gemuseus, says:—"This case adds to the observations already become namerous, where intra-cranial disease produces visible

Become numerous, where intra-cranial messase produces visible changes in the fundus oculi without causing injury to sight."
(New York Medical Journal, February, 1871.)
Now I quote from the writings of the greatest of Ophthalmic Surgeons. Graefe, writing in 1866 (Archiv. für Ophth., xii., 2, 130), says :- "It has been on all sides admitted, and has been especially stated by Blessig, that there is no exact proportion between the amount of functional disturbance and the amount of change dis-coverable by the ophthalmoscope. The want of such proportion depends upon two factors. The first is the uncertain degree in which the conducting elements of the nerve may participate in the morbid process, a fact well ascertained in nephritic retinitis. Hence, we may find the existence of good vision—
almosts always only for a short period—in a high degree of
congestion papilla (Stauungspapille). The second factor is
the degree of interference with the arterial blood supply."

So far I have quoted Ophthalmie Surgeons. I now quote a Physician. Dr. Clifford Allbutt (Medical Times and Gazette, 30, 1868), speaking of ischæmia of the discs, says :-"It is astonishing how changed and disfigured the optic disc and neighbourhood may become in this affection without dis-turbing central vision. I have lately had several such patients under my care who could read a badly-printed news-sheet with case. The same fact is strongly insisted on by Graefe. For this reason, the condition is constantly (I may, perhaps, say

generally) overlooked."

Another error as bad as, or even worse than, overlooking striking ophthalmoscopic appearances is to attach undue im-portance to slightly abnormal intra-ocular appearances, which portance to slightly abnormal intra-ocular appearances, which may be only abnormal in the sense of being physiological peculiarities. Curiously, this is the fault, not of these who have used it enphthalmoscop much, but of those who have used it little. It requires much practice to gire true-clinical value to "congestion of the optic nerves" or to "congested retime," to slight changes about the edge of the disc or a literations in the course and calibre of the view. In the paper referred to, I spoke on this matter, and from it I quote the following: -- "I have never laid stress on slight alterations in the colour of the discs, or on slight abnormalities in the size or course of the large retinal vessels. many set as zero course of the large retinal vessels. When yet as far wrong by attaching too much importance to slight appearances as by altogether overlooking decided pathogical changes." I certainly did not speak too strongly.

Professor Liebrich, at visits to the Hopital for the Epileptic

and Paralysed, has frequently pointed out striking peculiarities

⁽b) The reader will observe that I do not use expressions implying that sight is quite undirected when there is optic neutrins. It is not necessary for me to prove that. To ordinary tests sight is often good, and, therefore, without routine ophthalium-scopic examinations, we may overrook a striking process affects the nerve filters of the userve-bundle secondarily, and that, process affects the nerve filters of the userve-bundle secondarily, and that, on long as sight in conserval, they have not suffered, or have suffered very only one of the conserval. They have not suffered, or have suffered very content of the conserval of the conserval.

little. (c) I use the term "coarse disease" to include not only tumours, ordinarily so-called, but all kinds of adventitious products—syndilition nodules, absects, blood-elot, hydatid. Any one of these foreign bodies may lead to optic neuritis as it may to local encephalitis, on which convulsions, etc., depend.

in the fundus, which he declares to be really physiological eximitions. Speaking of the importance of ophthalmoscopical examinations of many normal eyes, Professor Liebreich remarked at the Clinical Society (see Lancet, November 5, 1870): -" En effet, l'aspect du fond présente à l'état normal, on pour-rait dire autant de variations que la figure humaine, et il faut l'étudier indéfinement si on ne veut pas être exposé à prendre quelquefois pour une altération pathologique ce qui n'est qu'une modification individuelle d'un œil sain." Obviously, then, whilst the student may observe any case he likes as minutely as he can do with precision, he should not dare to draw conclusions from very slight intra-ocular appearances.

AN ACCOUNT OF A MODE OF

FORMATION OF URINARY CALCULI. AND OF THEIR SPONTANEOUS PASSAGE THROUGH THE URETHRA.

By BERNARD KRAUS, M.D., Editor of the Vienna Medical Times.

THE form of catarrh of the bladder in its relation to the boneearth or triple-phosphate diathesis-first described by myselfgives rise to various pathological conditions, which have been so little investigated that I think it desirable to give publicity to such of them upon which I have been able to throw some light.

I have already, in my former contributions concerning vesical catarrh, laid down the position that the phosphatic diathesis is but little disposed to the formation of calculus in the proper sense of the term-i.e., that urine which induces the accumulation of triple phosphates, in the form of double ammoniacomagnesian phosphates, very rarely induces the formation of large stones, it being much more commonly the case for the whole of the inorganic product, when there is a suitable amount of tone in the bladder, to be discharged through the urethra. I have known patients who have discharged from ten to twelve grains daily without sensible distress. The last remarkable case of the kind came under my notice in April, in the person of a functionary, 24 years of age, who, treated nine months previously for gonorrhoa by nitrate of silver injections, became the subject of an intense vesical catarrh, which exhibited all the attributes that I have described in catarrh connected with the phosphatic diathesis. It rapidly passed from the acute into the chronic stage. The nrethra, on account of frequent preceding gonorrhous, was but slightly sensitive, and the passage of the phosphatic calculi was not so painful as it usually is in the recent form of catarrh. The patient urined in my presence, and evacuated about four or five grains of a compact mass held together by a very small quantity of mucus. Depositing at the bottom of the urine in a white adherent mass, it resembled a sandstone on drying, and, rubbed between the fingers, furnished a sandy feeling, and the other signs of calculous sediments. Careful examination with the catheter detected no concretion in the bladder, although the aperture of the beak of the catheter contained some of precisely the same white sediment. In old catarrhs of this description I have almost always met with these appearances; but their occurrence in recent catarrh was new to me, and I can find nothing similar to it recorded in the literature of the subject. Equally new is my observation that sediments of the caseous form, mingled with pus and mucus cells, may escape through the urethra in a globular form, and be met with in the urine of as large a size as a pea-a fact which I have often had the opportunity of observing.

This description of deposit is only met with in the phosphatic diathesis and its consequent eatarth, never occurring in the other forms of sediments, such as the oxalates or urates. In my opinion it is a peculiar action of the phosphates or turners. In my opinion it is a peculiar action of the phosphates on the mucus and pus in the bladder which leads to this peculiar form of deposit, and which is of so much less hurful a character than that from uric acid. The triple phosphates have also a great disposition to combine with the epithelium of the bladder, so as to produce a conglomerate of a less injurious nature than that resulting from the oxalates. These latter remain isolated, combining together atom by atom, without the intervention of any organic constituent, whence arises their augmented consistency. On the other hand, the phosphatic calculi are porous, owing to the combination with them at the time of their formation of organic constituents, such as cells, pas globules, coagula, etc. If these phosphatic crystals remain too long a period without a sufficiency of liquid, either in the bladder itself or in their passage through the urethra, when the propulsive power of the bladder is not sufficient to force out the sediment with the stream of urine, this peculiar form of calculus is produced. Concrements of the triple phosphate, varying in size from that of a millet-seed to that of a lentil, may form either in the bladder or urethra; and when they are arrested in the urethra, they may, by producing an impossibility of passing the urine, give rise to very dangerous symptoms, which may prove highly embarrassing to the Sur-geon. Such a state of things is not of rare occurrence in the subject of the phosphatic diathesis catarrh, and I am acquainted with a case in which such formation of calculi has taken place five times in the same year, to the infinite trouble both of the patient and his attendant.

The occasional cause of the formation of these calculi has always been cold, so that it may almost be proved that a certain amount of temperature is required to maintain the triple phosphate sediment in a safe solution or suspension in the urine, while, if the necessary warmth be not present, a concretion ensues. This is entirely in harmony with a fact which has come under my daily observation-viz., that if the triple phosphates have been for some time removed from the bladder, they form, on the abstraction of the water, little concretions, exactly resem-bling those which are formed in the urethra when the triple phosphates are therein arrested. Shivering is a very common premonitory symptom in the formation of these calculi, and it may recur several times during the night, frequently assuming regular febrile stages of shivering, heat, and sweating, with great depression of strength. It is very remarkable that often even on the same night, on an attempt being made to pass urine with an effort, a total closure of the urethra and an impossibility of emptying the bladder arise. Every effort of the patient proves in vain, and he is seized with complete the patient proves in vain, and he retention, accompanied by tenesmus.

These symptoms prove without a doubt that a concretion has These symptoms prove without a quantitative a concretion has been carried by the urine into the urethra, and has produced its obstruction. A Surgeon, called to the patient, who is unacquainted with the conditions of this mode of stone-formation will at once endeavour to pass a catheter, and yet in these cases the catheter should only be resorted to as a last resource, as will be explained. Our first endeavour should be to favour the expulsion of the concrement from the urethra; for if by means of the catheter we force it back again into the bladder it may become the foundation of a calculus too large to admit of its again being earried away spontaneously by the stream of urine. My experience, derived from eight cases, has taught me that these concretions can always be passed by the urethra. We should advise the patient, when he finds this sudden interruption to the passage of the urine, in spite of involuntary efforts, that he should not employ any active attempts to further the flow, as this only increases the state of irritation that ls present, and the passage along the canal is delayed. After an hour's repose, he should go to stool, and the combined straining through the rectum and bladder forms the most ready means for assisting the passage of the stone. In one case, the patient arriving at his attendant's house in a carriage. and attempting to pass urine, found that he did so without any difficulty, a small stone coming away during a powerful stream. It is possible that while riding the stone was changed from its broad diameter into a more favourable position. On another occasion a favourable change occurred during the careful passing of a straight eatheter down to the obstruction. On its withdrawal, a stream of urine bearing the calculus followed. In a third case this happened in a bath, without any instrumental aid; but the bowels and bladder were emptied at the same time, so that forcing in both directions had co-operated. not without its advantage to give these patients, when suffering from obstruction to the urine, a certain amount of water to drink, in order that the propulsive power of the bladder may be increased by its distension. It is evident that in extreme cases no other means remains than to force the stone back again into the bladder, which in simple cases can be done without any great difficulty by the mere passage of a catheter. When, however, odoma of the urethra is present, the procedure is a much more delicate one.

I am at the present time engaged in constructing an instrument having for its object the seizure of the calculus and its extraction from the pretbra. It will consist of a straight eatheter, containing concealed conically-pointed branches, which, when the seat of obstruction has been reached, will protrude and socure the calculus.

fair vision.

CATARACT, AND ITS TREATMENT BY THE SEMILUNAR CORNEAL INCISION.

By JABEZ HOGG.

Surgeon to the Royal Westminster Ophthalmic Hospital, etc.

(Concluded from page 602.)

A FEATURE of some interest in my cases, and one npon which I shall trouble you with a few remarks, is the successful extraction, in three instances, of traumatic cataracts, with retention of sight. Penetrating wounds and blows received on the eveball very frequently lead to lenticular opacity, and such accidents are the frequent cause of an iritis, a torn retina, or destructive inflammation of the eyeball; so that, to be useful, we must be prompt in our measures of relief. If an accident produces early opacity, we should resort to early extraction-looking early opacity, we should resort to early extraction—looking upon an opaque or displaced lens as a foreign body, certain to become worse or to set up irreparable mischief if not removed quickly. Even then it is impossible to say what success may attend the operation. I, however, as unhesitatingly condemn a consequence of the control of the operation of the control of very server should it be suspected that a foreign body has been logified within the chamber. I believe that those inflammation lodged within the chamber. I believe that those who advocate early extipation in anticipation of sympathetic inflammation attacking the sound eye, will have some difficulty in showing that, in days long past, and before this plan of treatment was in vogue, the loss of the second eye followed in any great number of instances. I will briefly narrate my cases which bear upon this question :-

Wm. S., aged 68, received a violent blow on the right eye, which was followed by a traumatic cataract. With a Beer's With a Beer's which was routered by a transmatic catarract. With a Seer's affire a small corneal section was made. As the lens did not show a disposition to start, an adhesion was suspected, and the extraction was finished with the scoop. The House-Surgeon reports—"The man has not had a bad symptom, and, in four-teen days after the operation, can read ordinary type with a No. 2 convex glass.

Sophia P., aged 38, received a blow from a man's fist on the left eye, producing a traumatic cataract. The House-Surgeon states on September 3:—"Mr. Hogg extracted the lens through a small corneal section. On the 11th the eye was opened, a small corneal section. On the 11th the eye was opened, everything in the meantime having gone on well, when she could o...int fingers. The pupil was found to be quite circular, and the ./.; Presented no appearance of having been operated upon at ā... September 18 (fifteen days after the operation), the patient was able to read with a two and a half inch convex

Repeated attacks of inflammation after the receipt of an injury are extremely liable to produce destruction of the eyeball; nevertheless, occasionally a case will turn ont well even ball; nevertheless, occasionally a case will turn ont well even when the inflammatory attacks have extended over a consider-able period. A gentleman, A. C., aged 82, roceived nearly twenty years before I was consulted a slight nigury to the left eye, which, so far as could be made out, was followed by reheamatic iritis and lenticular opacity. A intervals inflam-matory attacks occurred, which obliged him to consult his Addical adviser. When I saw him the leng presented a denue attack of rheumatic inflammation. In spite of the remedies employed, unpuration within the capsule took place. I reoccur-mended early extraction of the lens, as a measure of relief for the intense pain. To this the relate after its demurred; but, menade early extraction of the lens, as a measure of reflet for the intense pain. To this the patient at first demurred; but, when I pointed out the extreme danger to the other eye, he at length consented. As, from great intolerance of light, there was much difficulty in turning the eyeball downwards, I made a lower section of the cornea, and ont gushed a small nucleus in a drop of milky-looking fluid, complete relief following in a few hours; and, although a slow recovery was made, I was not a little surprised to find before I ceased my attendance that the patient could discern large objects. In two months from the

operation he could, with a deep convex class, read large type.

When, by injury or violent straining, dislocation of the lens
is produced, and sets up an inflammation, there can be no doubt of the propriety of resorting to extraction. Dislocation may occur quite spontaneously—that is, from disease of the suspen-sory ligament, or from liquefaction of the vitreous, the lens becomes separated from its attachments, or is so loosely held in its place that a violent fit of coughing or sneezing is aufficient to produce the accident. I may remind the Fellows of this Society of a remarkable case of the kind just mentioned. which I published in the Lancet, 1860, and in which, from the excessive amount of pain and violent iritis set np. I was

obliged to resort to early extraction. I mention this case hereobliged to resort to early extraction. I mention this case here because a few months after the operation I was once more consulted by this patient, who had the evening before unfortunately sustained a similar accident to the other eye. On this occasion I had the opportunity of seeing him early. Finding the content of th

I have but few details to trouble you with in the history of the majority of my cases, as nothing very remarkable occurred. the majority of my cases, as nothing very remarkable occurred.

Nearly all ran a very even course, and terminated in good or fair sight. I do not mean to say all my operations ended in giving perfectly circular pupils to my patients, or that I had no case of secondary cataract to deal with subsequently, for I no case of secondary cataract to deal with subsequently, for I certainly had two secondary cataracts, and these gave me neither trouble nor anxiety. Let me add, by way of cantion, that secondary cataract is very liable to follow when the corneal section has been made too small, and much pressure is made on section has been made too small, and much pressure is made on the globe in the delivery of the lens, or when your assistant, make pressure on the globe at the time the knife is passing through the cornea. The last of my cases (in November— No. 32) ended in secondary cataract from this cause. Mrs. No. 32) ended in secondary cataract from this cause. arrs. E. W., aged 60, with double cataracts; nervous temperament; eyes full and prominent. The left, being the oldest cataract, was selected for operation. She was rather unsteady, and my was selected for operation. She was rather unsteady, and my assistant had some difficulty in supporting the upper lid. In so doing he made considerable pressure upon the cyball just it came out to considerable pressure upon the cyball just it came out to said and a daud an eighth of an inch from the junction of the selevotic. The lens was extracted with difficulty, leaving behind portions of the capsule. At the end of three weeks I depressed the capsule, which was then filling up the greater part of the pupil. My patient has since obtained up the greater part of the pupil.

In conclusion, I will add a few brief remarks on my mode of performing the operation. The upper section has always been preferred at the Royal Westminster Ophthalmic Hospital, and very justly so. As I have already intimated, it possesses certain important advantages over the lower section-that of less easily permitting escape of the vitrous, while the support afforded by the lid certainly favours healing of the flap. Should irregularity of the pupil occur, either from unfavourable healing of the cicatrix or injury to the iris, it is concealed by the npper lid. After the operation, separation of the section and prolapse are less likely to take place from a fit of coughing or vomiting. If the patient, however, is anable to fix the eye in the proper If the patient, however, is naable to fix the eye in the proper-position, and a real difficulty presents itself in attempting the section, by reason of the eyeball rolling upwards and inwards, this is readily overcome by directing your assistant to select, with a pair of fine-toothed forceps, a fold of the conjunctiva, and gently retain it in position. Everything considered, although upper section may be rather more difficult of recention, the is counterbalanced by its greater advantages. Another difficulty will occasionally occur, and one less easily overcome. In attempting the section, the knife penetrates the overcome. In attempting the section, the time penetrates the cornea too obliquely; the point then traverses the lamelle for aome distance without at all entering the anterior chamber. In such a case, the knife must be withdrawn and re-entered, or an opening must be made from above downwards with a broadan opening must be made from above downwards with a bread-shouldered triangular knife. Such an accident will be avoided if the knife is fairly poised between the two foreingers and thumb, and the point made to enter perpendicularly to the cornea and within it, at the distance of a line from the sclerotic coat. When the point has penetrated the anterior chamber, which is known by its brightness as distinguished from the dull appearance of that part of the instrument still remaining within the density of the cornea, and by the absence of resistance which is readily felt by the practised fingers, the handle is directed slightly towards the temple, so as to give the edge such a direction when drawn in a right line that the point shall come out at the part of the circumference of the cornes exactly opposite to the point entered, thus causing the knife to divide the cornea parallel to its edge, and within a line or two of the sclerotic. It is, I consider, a matter of considerable importance that the section should be purely corneal, and therefore it must not be carried low enough to merge into the sclerotic; a corneal margin should be left of a sufficient breadth for union.

The main impediment to success is, as I have already intimated, a section too small to admit of an easy delivery of the lens. The easy extraction of a cataractous lens, like the easy extraction of a stone in the bladder, depends upon a clean cut and a fair-sized opening; while a difficult and forcible removal is almost as certain to end disastrously. The enlargement of the section after the escape of the aqueous is dangerous to the iris and other membranes, often provocative of laceration of the hysloid and a loss of vitreous. Should the lens sink down behind the iris to rise up in judgment against us, prolapse of this membrano is very likely to follow, and it becomes entangled in the lips of the wound. Any attempt to excise the iris after the lens has escaped will be followed by bleeding into the anterior can mas escaped will be followed by discounting into the american chamber, cassing not only protracted healing, but opacity of a portion of the cornea, and a dense secondary cataract from the combined effects of retained portions of capsule and serous exudation. When all goes well, very gentle pressure accreted on the cybell, after rupture of the capsule, serves to deliver the lens, and the operation is complete. Before applying the bandage, it is necessary to separate the cyclids to ascertain if the pupil be perfectly clear. Should any portions of capsule be seen, these must be removed with a curette or scoop, care being taken not to use enough force to rupture the hyaloid, which, it should be remembered, is now bulging forward, and may very easily be torn.

By way of securing more perfect adaptation of the edges of By way of securing more perfect adaptation of the edges of the cornes, I take a very soft piece of sponge, and make a few circular movements over the closed cyclid, and, lastly, apply a pad of carded wool and a firm bandage. At one time it was my practice to close the lids with a narrow band of black sticking-plaster; but as this sometimes lead to uppleasant con-Succing-plaster; our as this sometimes lead to unpressua com-sequences when there was occasion to remove it, I shandoned it for cotton-wool. The plaster is still preferred by some operators, and it certainly possesses the advantage of main-taining perfect adaptation of the tids, and secures the eye from the meddlesome interference of nurse and patient. I generally prefer to keep my patient in bed from four to six days; at the end of this period, if no inflammatory symptom appears, the bandage is partially removed, and he is allowed to move about. After the first forty-eight hours, little or no restriction is placed upon the diet, and the average duration in Hospital is under

twenty days.

The construction of instruments employed in this, as in most other operations, is a point which everyone must be permitted to decide for himself. The knife known as Beer's is that to decide for himself. The knife known as Beer's is that more generally used in our Hospital. For my own part, I think it a little too broad towards the base; the angle it substants is the property of the base of the little knife, in shape somewhat between a Beer and Wenzel. It is as you will see, rather smaller, but very well adapted to fit the wound it inflicts, which is a point of no little importance in making the corneal section, as it prevents the too hasty escape of the aqueous.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

THE ROYAL FREE HOSPITAL.

IDIOPATHIC (?) PERFORATING ULCER OF THE SOFT PALATE IN A CHILD, HEALING UP WITH-OUT OPERATIVE INTERFERENCE.

(Under the care of Mr. JOHN D. HILL.)

CEMET HE CENTER OF THE ASSET DESCRIPTION OF THE PRESENTING UNION OF THE STREET OF THE lowing case, for the notes of whiten we are indebted to Mr. F. Lett, the House-Surgeon, is therefore of considerable interest, inasmuch as careful search, specially directed with a view to the discovery of other symptoms or history of ryphilis, failed to discover any, although the ulcers in the palate precisely re-sembled those unually associated with this disease:—

Mary C., aged 8, came under the care of Mr. John D. Hill in this Hospital, on January 12, 1871, suffering from a circular perforating ulcer of the soft palate, about three-eighths of an inch in diameter, situate a quarter of an inch from the junc-tion of hard and soft palates. There were also several small ulcerated openings on each side of, and posterior to, the large ulcer, and some ulceration about the free margin of the palate and upper and posterior parts of the pharynx; the nvnla had been almost entirely destroyed, a short stump only remaining, and the whole was covered with a yellowish-white coating. The mether stated that her own health and that of her five other metine stated that her own health and that it her new that children had always been good, and most of her relations had attained advanced ages; her husband's health had also been always good, although he came of a phthisical family. The patient, a well-developed, though somewhat delicate-looking girl, had nover had any ailment that her mother could remember—cerhad noverhad any aziment that her mother could remember—certainly not any of the cruptive fevers. About thirteen months since the child complained of pain in the right ear, soon followed by a pellowish discharge. In four weeks from the commencement of this discharge a white swelling, resembling a blister, presented itself in the median line of the soft palate, which was quickly followed by a discharge of whitish fluid, and ulceration, which has gone on increasing up to the present The pain of ear and discharge from it continued for time. The pain of ear and discharge from it communes for about four months. As far as could be ascertained from the history as given by the mother, there was nething by which to identify it as syphilitic in its origin.

On admission, Mr. Hill ordered a lotion of acid nit fort. wax to say, \$\frac{1}{3}\$, to be applied with a brush twice daily, and internally a mixture of pot. chlor. gr. x, ayr. aurant \$\frac{3}{3}\$, acid hydroch, mig., aq., \$\frac{3}{3}\$\$ to I. The lotion was discontinuous of January 25, because the granulations were weak and flabby, and argrent intra applied daily instead, a liberal diet with \$\frac{1}{3}\$\$, of wine being allowed. The patient theneforth steadily improved, and the circular opening in the soft palate was quite closed up by March 15. On admission, Mr. Hill ordered a lotion of acid nit. fort.

EPITHELIOMA OF THE LOWER LIP-EXCISION-UNION BY FIRST INTENTION.

(Under the care of Mr. J. D. HILL.) J. H., aged 64, was admitted into No. 9 bed, Calthorne Ward. on January 14, 1871, suffering from epithelioms of the lower lin. The man stated that the disease had first appeared as a lip. The man stated that the disease had first appeared as a small blister on the outside of the lip about two years ago, folaman onser on the outside of the up about two years ago, fol-lowing a kick from a horse. A thick discharge issued, which dried up and again appeared, until, in May, 1870, the sides of the sore began to get hard, leaving the centre soft and slonghing. On January 16, Mr. Hill took a V-shaped piece, including ing. On sanuary 10, air. Hill took a V-shaped piece, including the diseased portion, out of the lip, and drew the edges together with three pins, which he kept in place by silk, the whole being covered with collodion. On the third day afterwards, the first pin was withdrawn, union having commenced; and the second and third pins were removed on the next two days. On the ninth day, all plasters, etc., were also removed, the wound having perfectly united; and the patient was discharged on

In his remarks upon the case, Mr. Hill said that, whether in the upper or lower lip, he always made a practice of removing the pin nearest the mouth last, so that the orbicular muscle should not be free to act before the union was very firm; and although the longer the pins were kept in the greater the sear, this was far preferable to the danger of reopening the wound, and possibly the chance of a salivary fistula. Considering the patient's age, he had not seen a more satisfactory example of primary union.

"DREADNOUGHT" SEAMEN'S HOSPITAL

CASE OF MALIGNANT PURPURIC FEVER.

(Under the care of Dr. STEPHEN WARD.)

[Communicated by W. C. S. CLAPHAN, House Physician.] G. S., aged 20, a fisherman, was admitted into the Scamen's Hospital May 16, complaining of dizziness, pain in back, vomit-ing, and dimness of vision. Stated that he left Grimsby for fishing-grounds off Holland seventeen days ago, and was taken ill after being at sea seven days. Had been exposed to no infection that he knew of ; no one else in boat ill. Returned to Grimsby on 15th, and came direct here by steamer. Pre-viously enjoyed good health. Does not know whether he had

viousny enjoyen good neatth. Does not know whether he had been vaccinated; no vaccination scars.

Examination.—Patient is a strong, well-developed man. Bright scarlet rash was seen over back and abdomen, which did not disappear on pressure, nor ecchymose on pinching. Skin of face, chest, and arms darker than rest of body, and dotted here and there with small bulke, containing black fluid blood. Legs were covered with purpuric spots and patches, a few large pustules on ankles, not umbilicated. Legs and arms celematous. Rash principally on outer side of limbs, and thickest at flexures of joints. Pupils contracted, but equal; conjunctive injected and painful; corner healthy. Purpuric spots on lips, which were covered with sordes ; tongue swollen. white, and dry; thick white exudation on palate; gums spongy and bleed profusely; swallows liquids well; bowels confined since 14th. Pulse 108; heart-sounds natural, but indistinct; respirations laboured, stertorous, and interrupted by short frequent cough; sputum copious, and consisting chiefly of blood; small crepitations over both lungs, anteriorly and posteriorly. Urine, large in quantity, dark port-wine colour, with deposit of pure blood, acid, specific gravity 10-18, albuminous; chlorides increased, sugar present in considerable quantity; microscope showed blood corpuseles and vesical epithelium, red and white corpuseles in normal proportion. Temperature at night 104.2; pulse 110. Ordered five grains of ammon. carb. and twenty minims of sp. æther nit. in an ounce of water, every four hours. Milk diet, eight ounces of brandy, and two eggs

17th .- Bowels smartly moved this morning; motion loose; 1.11.—nowness smarrly moved that morning; motion rosses, and the property of the morning of the

until the last.

until the last.

Post-mortem Examination, Tixenty Hours after Death.—Rigor
mortis considerable. Thorax: Lungs free; patches of ecchymosis on surfaces of both. Right lung extensively engorged
with blood; middle and lower lobes soft, and easily broken down. Left lung in same condition, but to a less degree. The heart contained a little dark fluid blood in both ventricles; no coagula; valves healthy; muscular structure firm, almost like indiarubber. The liver was firm and fatty. The gall-bladder contained three ounces of black viscid bile. The spleen was firm communes turne ounces of donest viscus take. In epipleen was firm and beefy. Könneya large; pelves filled with closely adherent healthy throughout; mesentery of cascum infilirated with blood. Weight of viscers: Right lang, 2 lb. 8½ oz; left lang, 1 lb. 10 oz.; heart, 13 oz.; liver, 5 lb. 1½ oz.; epicen, 103 oz.; kinger, y lb. 10 oz.; epicen, 103 oz.; kinger, y lb. 20 oz.; epicen, 103 oz.; kinger, y (logether), 1 lb. 5] oz.

This case agrees with two cases aiready published elsewhere, in the character of the eruption and excretions, with the exception, in this case, of there being no blood in the stools, chlorides of urine being increased, and sugar being present. The febrile symptoms of this were also of greater severity, as shown by pulse and temperature. Malignancy of fever is sufficiently established by the fact that not one of the three survived the sixth day of the rash. Post-mortem appear ances similar in all three cases, except that in this case the intestines were healthy, whereas, in the two above referred to, there were ecchymoses scattered indifferently over surface.

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Medical Times and Gazette.

SATURDAY, JUNE 3, 1871.

ARE THE PARISIANS MAD?

THE Medical Profession has had quite its share of suffering from the horrible events which have accompanied the Communist insurrection in Paris. The private practice of our

confreres has been well-nigh annihilated; they have toiled in the Hospital wards amidst pyæmia and gangrene; they have exposed themselves freely to the scarcely greater dangers of the battle-field, and have not escaped the threats and injuries of the ruling assassins and incendiaries. It is not out of the province of a Medical journal, therefore, to say a few words on the late horrible events in Paris. This the more especially because, as we learn from the Pall-mall Gazette, the hypothesis has been started that the Parisians are mad.

"M. Francisque Sarcey," we are told, "reports in the Gaulois a conversation he has had with 'an illustrious Physician' who expressed the opinion that one of the chief causes of the terrible scenes which accompanied the final suppression of the terrible scenes which accompanies the mass suppressessor is the Communist outbreak was 'a contagious mental alienation. The minds of the Parisiana, he said, were gradually unhinged by the privations of the siege. The revolt of March 18 gave the last blow to brains which were already shaken; and at length the greater part of the population went raving mad. length the greater part of the population went raving mad. This epidemical insanity is one of the most surprising cases that physiologists have ever witnessed.

1 Year of the physiologists have every high properties of the physiologists have been paid ten frames a day for their horrible work. Can anything be more improbable than that they should expose themselves out of mere thoughtlessuess to the almost certain prospect of being shot down by our troops for such a miserable sum? They were simply under the epidemical influence of the mania Incy were simply under the epidemical induced of the manns of incendiarism. . . They acted under an hallucination which is as incontestable as it is difficult to understand and explain. This is not the first time that a whole population, attacked by a sort of vertigo, run about with torches and set fire to everything in their way. The records of the middle ages are full of similar examples. . . . Women are under such circumstances fiercer and more reckless than men. is because their nervous system is more developed, their brains are weaker, and their sensibilities more acute than those of and do much more harm. . . . None of them knew exactly what they were fighting for; they were possessed by one of the various forms of the religious mania—that which impelled the Jansenists to torture themselves, with a strange delight in pain of the acutest kind. The men who threw themselves on the bayonets of the soldiers in a paroxysm of passion were seen ten minutes after utterly prostrate and begging for mercy. They were no more cowards in the last state than they were heroes in the first; they were simply madmen. . . . Look at the citizens who did not take part in the insurrection; they are immovable and stupid, like men struck with paralysis. Yet they have on many occasions given proofs of uncommon vigour and courage; but the air of Paris is at this moment poisoned by deleterious miasmata which make some people furious madmen, and others helpless idiots. I have seen the strongest intellects stagger under this pernicious influence, and I have myself frequently felt as if my reason were going."

We fear that a more minute analysis of the facts will fail to establish any similarity between the disorders in Paris and the great moral epidemies of the middle ages, of which accounts are to be found in Hecker; for instance, the Dancing Mania, the Flagellants, and the like. In the cases of the Parisian petrolistes, we do not find them actuated by incendiarism pure and simple; they did not burn their own houses; they were sane enough to select the objects of destruction amongst those of the class that they believed to be hostile to them. Moreover, the incendiarism was not the sudden impulse of a frantic population. There was nothing in it to recall Dryden's lines-

I nere was nothing in it to recall in Process and "Behold how they point to the Persian abodes. And gittering temples of the hostile gods! And the King seized a flambeau with seal to dostroy. This is left the way. To light him to his prey; And, the another Helen, fired another Troy!"

There was no sudden apparition of the Furies in Paris; everything had been coolly premeditated and prepared. Reynolds's Newspaper, one of the English Communist organs, savs (May 28) :-

"Three weeks ago we forewarned our readers that Paris

would be set on fire. We had seen a letter from M. Felix Pyat, the ruling spirit of the Commune, saying that the city was soaked and undermined with petroleum. M. Thiers must have known this also."

This quite excludes the notion of insanity.

If now we endeavour, like students of moral pathology, to trace this hideous social cancer to its source, we are compelled to dismiss most of the causes that are brought forward. Some lay the blame on the Emperor Napoleon, but forget that precisely analogous symptoms prevailed in the Parisian insurrection of 1848, which was, in fact, the main cause that lifted him to the throne. The Emperor, say some, acted criminally in declaring war. On the other hand, M. Victor Hngo declares of Louis Phillippe that he was deservedly upset by the revolution of 1848, because "Sa grande fante, la voici; il a été modeste au nom de la France." His pacific policy, says M. Hugo, did not suit a nation that has an Austerlitz amongst its military traditions. Again, the idea is untenable that this fight of the "populace" against the "people"-of the 5xhor against the onus-was caused by privation and misery. All evidence shows the existence of an organised combination of two classes-of the free lances, the turbulent demagogues from every part of Europe; and of the so-called working classes; that is, of those who live by weekly wages-not merely to get the greatest pay for the least work, which is fair, but to seize the property of the capitalist, and place all the fruits of the industry and forethought of past generations at the mercy of men who live from hand to month. Capital means only that surplus of the fruits of the earth which remains over and above immediate expenditure. Unluckily, the " working men" wish to unite the possession of other people's capital with the pleasure derivable from squandering the whole of the weekly wages they earn. Is the Medical Profession blameless of the guilt of fostering this moral ulcer? We fear not. The drunken artisan begins to look on Hospital relief as his right, and to treat it as if it were a natural privilege. Any system which should inculcate providence, temperance, and selfreliance would be a greater boon to the working classes than the doles of the middle ages or the indiscriminate relief of our own times.

THE PROCESS OF INFLAMMATION.

So much has of late years been said and done on the subject of inflammation-so materially have our views changed since the days of the old exndation theory-that it is not very easy to state, even in substance, what could be called the orthodox belief at the present day. First, we had the views of Virchow superseding what might be called those of the French school, teaching that all inflammatory products were the direct result of alterations in local cell-growth and nutrition. Next came the views of Waller, revived by Cohnheim, showing how inflammatory products were to a considerable extent, at least, the result of metamorphosis in extravasated blood elements. It is with something like satisfaction, therefore, that we proceed to give an abstract of the views of one who, by weight of judicial authority and by experience, both clinical and experimental, is entitled to claim a hearing from us all. It may be within the recollection of some of our readers that the portion of Mr. Simon's article "On Inflammation," relating to the inflammatory process, was not published with the rest in the first volume of Holmes's " System of Surgery," and it was then generally understood that Dr. Burdon-Sanderson had been intrusted with the task of carrying out such inquiries as would lead to satisfactory conclusions on the subject. These results now appear in the appendix to the fifth volume; and of them we desire to give some account.

The process of inflammation is defined by Dr. Sanderson as "the succession of changes which occurs in a living tissue when it is njured, provided that the injury is not of such a degree as at once

to destroy its structure and vitality." The origin of inflammations, again, may be put down as either extrinsic or intrinsic, either reaching the part directly, and directly modifying its structure and functions, or only reaching it through the lymphatic or vascular channels. To the latter of these modes of origin, Dr. Sanderson has given a name which, if well adapted to explain certain forms of inflammation originating in the intrinsic way, is hardly so well suited for others; that name is infective. But all inflammations of that kind, whether tubercular or pyemic, are meantime put aside; extrinsic inflammations are alone discussed, and only that variety of these where the local injury gives rise to local changes in the same locality-in other words, we deal only with the effects of excessive irritation on the tissues. These appear to be, in order-(1) disorder of circulation; (2) transudation of blood constituents; (3) alterations in the nutrition of the inflamed part or texture, as exemplified by alterations in the growth of its elements.

Perhaps the step most difficult of understanding in the process of inflammation is that which relates to the changes in the bloodvessels themselves, especially in the production of what is called stasis. To the perfect understanding of this a knowledge of what has of late years been made out as to the influence of certain nerves on the vessels themselves is absolutely necessary; and on this point our readers cannot do better than to refer to Dr. Sanderson's own lectures on the subject in our columns. Taking all the facts into consideration, we must come to the conclusion that irritation of the sensory nerves of a part gives rise, by reflexion through certain centres, to, in the first instance, contraction of the minute arteries, with, in almost every instance, increased rapidity of the blood-current. But this in its turn gives way to dilatation and retardation, or retardation without dilatation. Such, also, would seem to be the case in inflammation. If a frog be properly prepared, and a portion of its mesentery exposed below the microscope, this increased rapidity of the blood-current will for a time be observed, but by-and-bye a change comes; suddenly the current, instead of being accelerated, is retarded in a remarkable manner. It will also be observed that whereas the central portion of the vascular canal is filled with a rush of red bodies, the comparatively still layer at its sides becomes more and more crowded with white corpuscles or leucocytes. Now, also, is to be noticed that curious property of living leucocytes-their powers of independent locomotion. Everywhere they may be seen perforating the walls of the veins. and accumulating in the tissues beyond. At the same time, the liquid portion of the blood leaks through the vessels' walls, yielding nourishment to the leucocytes beyond, and giving rise-in part, at least-to that swelling which is one of the characteristic features of inflammation. All this time the current has been becoming slower and slower-more and more retarded; next, the stream seems uncertain in its direction; oscillation of the vascular contents ensues; finally, there is a dead stop, all motion in the blood ceases, stasis is complete. In these parts the blood corpuscles are so crowded that they seem to lose their shape, and liquor sanguinis no longer seems to be left in the vessels. Nevertheless, these changes do not appear to be brought about by changes in the blood itself, but rather in the vascular walls. Thus it has been shown that the same sudden train of changes may be induced by the irritation of a part whose bloodvessels contain, not blood, but milk; but if the vessels themselves be altered by the introduction of such a reagent as chromic acid-even for a momentno stasis follows.

This is best explained by a consideration of the structure of a minute capillary. Physiologists do not nowadays adhere to the old anatomical demonstration of the arterial coats, for Frey has well shown the exceeding variety of these coverings, from the structureless substance of a fine capillary to the complicated textures of a medium-sized artery. But more has been done than this. The exceeding redniness of repair exhibited by the capillaries themselves has been studied, and found to be inherent in their nature. They are no rigid semi-vitalized canals, but channels of living protoplasm; and, just as one portion of a wandering ameba combines with another, or separates from it at will, so can a living leucocyte enter into or make its exit from the living walls of a capillary. Kill the walls of the capillary, and all is changed.

It is thus evident that the bloodvessels are something more than mere carriers of blood in the initial step of inflammatory action; their very substance is modified bythe original stimulus, be that what it may, and the change so induced facilitates the transmission of leucocytes through their walls. These constitute the first puriform elements outside the vessels. But this change in the vessels themselves also permits the transmission of fluids in unusual quantity for the nourishment of the tissues beyond; and from their elements, thus stimulated and nourished, are produced the great bulk of the so-called pas corpuseles. These changes in the tissues outside the vessels we must consider next week.

THE SMALL-POX EPIDEMIC.

THE fatal cases of small-pox registered last week in London were 257, a very trifling decline upon the previous week. In the seven weeks ending May 27, the weekly numbers averaged 264. Distributing the Hospital deaths among the districts from which the cases proceeded, the numbers for the several districts were-West, 21; North, 65; Central, 22; East, 51; and South, 98. Taking the population into account, the South of London is still pre-eminent for small-pox mortality. The principal decline has occurred in the Northern districts. The greatest fatality from small-pox was shown in St. Pancras, Shoreditch, Bethnal-green, Southwark, Walworth, Clapham, Battersea, Peckham, and Camberwell. In the North of London the chief prevalence of the disease, according to the returns of the Health Officers, is in St. Pancras. We hear, too, that within the last ten days a considerable outburst of small-pox has occurred in Kensington. We learn from the Registrar-General that, while the small-pox mortality has declined in most of the large towns invaded, it has increased in Newcastle and Sunderland. In Southampton, 16 deaths were registered last week, against 13 and 17 in the two previous weeks, the annual death-rate being equal to 17 per 1000 persons living. A return made to the sanitary committee of the town shows that there are 1000 cases in the town, out of a population of less than 50,000, besides those in the workhouse. In Weymouth there were 9 deaths from small-pox last week, showing a death-rate of 32 per 1000 living. In Great Grimsby there was a decline of 4 deaths, the annual death-rate being 25 per 1000; no fewer than 122 deaths have occurred here, with a population under 30,000, since the outbreak of the epidemic about two months ago.

We hear, upon what we regard as good authority, that the disposition to overcrowd the Dreadnought with convalescents has received a rebuke in the form of an outbreak of erysipelas. At first, it was contemplated to accommodate 200 patients there; then it was thought that 250 would not be too many, considering the free ventilation that could be commanded; and ultimately there were those who did not consider 300 an excessive complement. It is a pity that the Asylum Board do not in such matters submit to the guidance of an experienced Medical man. The same disposition to overcrowd has been manifested at Stockwell. We are afraid that the truth is that each Hospital Committee is a law unto itself. It is said that arrangements have been made for taking into occupation another Hospital ship, to be moored alongside the Dreadnought. One day this week we paid a second visit to the Hampstead Hospital, in order to see the wooden huts erected for male convalescents. There are altogether four of them put up on the waste ground to the north of the Hospital buildings. They are entirely constructed of weather-boards, the roof is covered

with felt, and along the whole length at the top of it is a prolonged louvre, the sides of which can be closed at discretion by a flap. There is a free circulation of air beneath the floor, and for more complete ventilation the central floor-boards along the whole length open by means of hinges into the space beneath. Each is well lighted and ventilated by sixteen windows at the sides, and one or two at each end. Airiness, lightness, and economy of construction are here combined with complete efficiency. Each hut is 100 ft. long, 20 ft. wide, and about 9 ft. high to the spring of the roof, above which the latter rises about 6 ft. higher in the middle. One of them is used as a day-room, and is provided with bagatelle-boards, draughtboards, and a piano! Smoking is allowed; and the patients have thus a pretty fair time of it. It would be strange if, with the liberal diet provided, they were not content, and rather sorry to leave such good quarters when discharged. The other three huts are dormitories; they contain each thirty-four beds. The 800 feet per head of cubic space, with the constant venti-lation provided for, prove sufficient. The closets, urinals, and lavatory are separate altogether from the huts. The cost of each has been £190; or, including the day-room accommodation, £7 9s. per bed. Now that the Hospital is complete, and in good working order, we cannot avoid reiterating our admiration of the entire plan and arrangements; the perfect order, cleanliness, and neatness pervading the establishment; and the sweetness of the atmosphere in the wards. There was but one exception-namely, the old double hut, moved to Hampstead from the London Fever Hospital-which is divided along the centre into two wards by a lofty wooden partition; these wards alone felt close and stuffy. We were glad to learn that Dr. Grieve, whose authority in the establishment is wisely and fully maintained by the Committee, in the ordering of all the details of administration, proposes to cut down this partition very considerably. One of the annexes on the north side has been fitted up as a small chapel, and attractively decorated by the East Grinstead Sisters in charge of the domestic arrangements.

We are pleased to hear from Dr. Collie that he has taker our hint about the children's tent at Homerton, and reduced the number of patients to six. Still he maintains aix edults in the other tents. He says that the patients like the tents better than the Hospital warsis. In the daytime, these patients are virtually treated in the open air by turning up the side of the tent all round. The dry-ceart closest is in use for these patients, and answers very well. Up to the present time, at the Hospital which Dr. Colle has charge of, there have been 914 patients admitted altogether, and the deaths have been 119, equal to about 13 per cent. As yet, he informs us, the cases have not presented any change of type—they are as severe as ere:

In Dr. Barbour's last report on one of the Stockwell Hospitals, he takes occasion to mention, as a contribution towards determining the question of using revaccination lymph, the following facts which have come to his knowledge. He says:—

"A Medical man in the south of London has been revaccinating with Jymph takes from a secondary vaccination. Three patients thus revaccinated have been admitted into this Hospital with small-pox, contracted after a lapse of time sufficient to have allowed the veraccination to become protective. One which allows as admitted, the attack being of a hemorrhagic, and almost necessarily fatal, type. The history of the family is the important part. The mother and one child were vaccinated with secondary lymph three months ago, the marks on the arm remaining. Both had a bad attack of small-pox, and the mother, as I have said, died. Two other children were reacting a primary vaccination five weeks ago. They have a taken small-pox, though they slept in the same room with the mother and sister already referred to.

We should have liked to have heard something more of the character, appearance, and stage of the secondary pocks used in this instance. Anyhow, the warning is a valuable one.

THE WEEK.

TOPICS OF THE DAY.

THE Committee of the Council of the Royal College of Surgeous, appointed to arrange the scheme for a conjoint examination, met on Wednesday. It is understood that the scheme proposed by the Royal College of Physicians was fully discussed, and that the Committee decided upon some very important alterations which they propose to make in it. These alterations they will submit to the committees appointed by the Royal College of Physicians and the Apothecaries' Society at a meeting which is fixed to take place on Monday next.

The Report of the Select Committee on Vaccination, which we publish in another column, is evidently a carefully weighed and drawn-np State paper. It is a complete confirmation and vindication of the opinions which this journal has advocated with regard to the wisdom and policy of the Compulsory Vaccination Act. In the first place, the Committee allow-what unfortunately can no longer be denied-that vaccination is not an absolute, although it is a very great, protection against small-pox, adding, however, that it is an almost absolute protection against death from that disease. They then state that, if due regard be paid to the health of the person vaccinated, and proper precautions be taken in obtaining and using the vaccine lymph, there need be no apprehension that vaccination will injure health or communicate any disease. In this statement the Profession will agree. But the evident caution with which the statement is made, and the avowed possibility of disease being communicated where precautions are not taken, are arguments which will certainly be made good use of by the anti-vaccination fanatics. The Committee, while they lay down the axiom that it is the duty of the State to seenre the careful vaccination of the whole population, will not undertake to recommend the forcible vaccination of any individual, and "recommend that whenever in any case two penalties or one full penalty have been imposed upon a parent the magistrate should not impose any further penalty in respect of the same child." This is virtually to give up the principle of fines and penalties altogether. The law thus altered will merely prescribe that anyone who chooses may avoid vaccination by paying a trifling sum or getting the Anti-Vaccination League to pay it for him. If a fine or penalty be right as a punishment, logically it ought to be inflicted until the law be complied with. An habitual infringer of any other law is not exempt from punishment because he has already been punished. The fact is, as we have always maintained. a system of fines and penalties for non-vaccination is a mistake, and Parliament and the Government are now finding it out. Vaccination is an enormous boon to the human race, but it is not an absolute good. There will always, therefore, be a set of perverse people who will refuse to recognise the good, and will magnify the evil. To attempt to coerce these persons by fines, imprisonment, and penalties is merely to fan the flame of unbelief, and spread the heresy. This has been the result of the Compulsory Vaccination Act. The evidence produced before this Committee will afford the agitators. stronger arguments than they have ever had before against a most beneficent and invaluable practice. All this evil has been due to nawise and mistaken legislation, which will certainly be sooner or later abandoned. Far wiser is the German law on the subject of vaccination. With all the absolute power of the Government of the German Empire, they are far too intelligent to attempt this form of coercion. They say to their subjects, "You may be vaccinated or not as you please, but for the sake of those about you it is desirable you should be vaccinated, and, therefore, unless you are thus prevented from spreading small-pox you shall not go to school, you shall not get married, you shall not serve in any public service, or. in fact, exercise any of the ordinary privileges of a citizen." The result is, that a certificate of vaccination is looked on as a necessary passport to society, and it is obtained. If compulsory vaccination is to be maintained in this country, after the possibility of the introduction of the syphilitie virus by the operation has been proved, Government must at least provide facilities for vaccination from the calf for those who desire it. Finally, we are glad to see that the Committee recommend that vaccination should not be, as now, under two departments -the Privy Council and the Poor-law Board. Delay and nonefficiency are the necessary result of the division of duties.

To the list of candidates for the post of Assistant-Surgeon to St. Thomas's Hospital which we published last week, we have to add the names of Mr. Francis Mason and Mr. Frederick Churchill. The attractions of the new transpontine Hospital are, it seems, great, for Mr. Mason, it will be remembered, has very recently been promoted to the Surgeoney of the Westminster Hospital-a post which he will have to vacate should he be elected at St. Thomas's. Mr. Frederick Churchill, like Mr. Wagstaffe, has established a real claim on the Hospital, which we think the Grand Committee in fairness ought not to overlook. Mr. Churchill has worked for three years as Surgical Registrar to the Hospital. It is but fair, when gentlemen accept annaid appointments to Hospitals, and fulfil these duties for a long period honestly and well, that, when vacancies occur, the claims of previous service should be respected, and should place their possessors on some vantage-ground. It is only by the recognition of this principle on the part of Hospital authorities that young men of energy and talent can be found to spend some of the best years of their life in these otherwise unproductive employments.

A Scotch judge and jury have awarded one farthing damages to Mr. Edward Cunningham Craig, a student of the University of Edinburgh, in his action against Miss Sophia Jex Blake for defamation of character, she having charged him with drunkenness at a public meeting in Edinburgh. It must be remembered, however, that in Auld Reekie to be "fon" is rather a credit, especially to a ruling elder, on Sabbath e'en. This probably accounts for the lenient view of the case taken by the Court. We say nothing of the witchery of the lady plaintiff, which may have subdued the "douce sober bodies."

A Chinese paper, the Shanghai Courier, has been taking up the cudgels on the part of the ladies who are endeavouring to force themselves into the Edinburgh Medical Schools. The Chinese writer argues, that because there is nothing indecent about the female patient, so there is nothing indecent about the female Medical student amongst students of the male sex, We do not see the logic of this except we admit as analogous truth Dr. Johnson's axiom, " Who feeds fat oxen must himself he fet '

To the horrors which have accumulated within the last few days, we are sorry to see added the death of the Secretary of St. George's Hospital from prussic acid. The deceased, Mr. Russell Goldie, has been, it appears, in the habit of taking opium and prussic said to relieve pain, and it is supposed that he took an overdesc. He was found dead on his sofa.

HARD OR SOFT WATER IN RELATION TO POPULATION.

A correspondent reminds us that the tallest and strongest men in this country, from whom we get our Horse Guards, our navvies, and our wrestlers, are the people of Cornwall, Cumberland, and Westmoreland, who all live upon the primitive or granitic formation, and drink absolutely pure water, when they drink water at all-which is as seldom as possible; for they are much given to very strong ale (33 lbs. to the barrel). But they also eat enormous quantities of animal food, and a kind of bread they call "Masselgion," made from two parts of wheat and one of rye. The Welsh and Highland Scotch also live on the granitic formation and drink pure water, but they are feeble creatures by comparison with the others. They cat, however, very little animal food. The first live on choese and milk, the last on broth and oatmeal. There is no doubt, if you could determine the amount of nitrogen in a Cumberland dinner and in a Welsh dinner, you would have a very good co-efficient of the relative strength of the two kinds of people, and you would cease to wonder at the feats of the Cumberland wrestler. Moreover, all large towns are centres for the accumulation of all the bad and desperate cases within a twenty-mile circuit; these cases come to the town for better advice, and of course many of them die, and swell unfairly the death-rate. But in agricultural towns this circuit is sparsely peopled by a tolerably healthy population; in manufacturing towns it is densely populated by a people shut up in manufactories and workshops, where unhealthy processes are carried on. To compare such towns as Birmingham, Leeds, and Newcastle-on-Tyne with such towns as Banbury, Cheltenham, Croydon, and Canterbury is impossible.

ANNUAL DINNER OF THE AEMY, NAVY, AND INDIAN MEDICAL SERVICES.

Between fifty and sixty of the officers of the "United Medical Services," as they may be now called, dined together on Friday evening, the 26th ult., at Willis's Rooms. Dr. Armstrong. Director-General of the Medical Department of the Navy, presided. Sir William Fergusson, President of the Royal College of Surgeons, and Dr. Burrows, President of the Royal College of Physicians, were present as guests of the President for the evening, and were most cordially received. Sir T. Galbraith Logan, K.C.B., Sir David Dease, K.C.B., Sir T. Ranald Martin, C.B., Inspectors-General of Hospitals G. S. Beatson, C.B., and John Murray, Indian Service; Deputy-Inspectors-General C. A. Gordon, C.B., T. Longmore, C.B., J. O'Flaherty, C.B., T. Crawford, M.D., and Dr. Mackay, R.N., Dr. Sloggett, R.N., Dr. De Renzy, Sanitary Commissioner of the Puniaub, Dr. De Chanmont, Dr. Mauley, V.C., R.A., Dr. Hannen, R.A., Staff Surgeons Snell, Kidd, Webb, etc., also attended.

THE CENTRAL CHAMBER OF ASSICULTURE AND POOR-LAW MEDICAL RELIEF.

The question of poor-law Medical relief, which was to have been dealt with at the last meeting of the Chamber, on May 2, and which was adjourned in consequence of the prolonged discassion on Mr. Obschen's Rating and Local Government Bill, will come on for consideration on Theeskay, June 6, at the Salebury Hotel, Salisbury-sequers, Elect-street, at 12 annprecisely. The discussion will be opened by some introductory observations from Mr. Joseph Rogers. As this is the first time that this question has ever been entertained by a non-Professional auditory, it is to be hoped that those gentlemen who are interested in a more efficient system of poor-law Medical relief will make a point of attending and supporting Mr. Rogers in his undertaking.

AMALGAMATED TWINS.

A collection of human monsters is at present to be seen at Willis's Rooms, King-street, St. James's, which well deserves the attention of the student. There is a Miss Swan and a Captain Bates, the former a Canadian, the latter a Kentuckian, each seven feet high, and of good proportion and symmetry. There is likewise a pair of negro girls, amalgamated into one mass, although the cicerons of the party prefers to call them one girl with two heads. It is very well known that two ova are capable of more or less complete amalgamation (or one twin ovum may have a more or less incomplete separation), so that there is hardly a limit to the varieties of double monstrosity. No class of animal is exempt from this liability, and fish, reptile, bird, and mammal so combined may be seen in the Hunterian Museum. There may be an amalgamation of two heads in one, with bodies separate, or of two heads with one body; in fact, given two persons, any parts of both may be fused into one. In the case before us there are two heads, and of course two consciences and wills and understandings; two cheets, two sets of arms, all with distinct sensation and volition; but the lower part of the spinal column and pelvis are one, and the four legs obey nevers from a common centre. There are two bladders; one genital and fiscal aperture. Millie Christine, for such is the name of this amalgamation, is 19 years of age, and of nearly pure negro blood. Both girls have the pleasing physiogenmy of young negrosses, have good voices and considerable tasts for music, and dance with considerable grace. Although back to back, they are capable of twisting round, so as almost to face the audience. As living specimens of teratology, they deserve to be visited by our Medical brethrology.

FROM ABBOAD, -- SCORBUTUS COMPLICATING TRAUMATIC INJURIES -- DE. E. MULLER ON VACCINATION WITH OLYCERINED LYMPH.

In a file of the Gazettes Hebdomadaires just received from Paris. we find several interesting articles on the subject of scorbatus as observed during the siege. Among these is one from the able pen of M. Vernenil (March 31), in which he considers "Scorbutus as complicating Traumatic Lesions." He has long had under investigation a large subject in general pathology-viz., "The Reciprocal Influences of Diathetic Conditions and Traumatic Lesions:" and, therefore, eagerly availed himself of the opportunity of the cases of scorbutus which came under his notice in their Surgical relations. These, however, were few in number; but he relates one case in full detail, and appends to it many interesting remarks. For these we have not space and can only glance at his general conclusions :- 1. Scorbutus may attack a wounded person just as it may any other subjected to its causes, but the occurrence is rare. 2. It is a condition of simple intercurrence; the wound, so far from creating any predisposition, would seem to procure a kind of indirect immunity. He has derived this opinion not only from his own observation, but from a diligent examination of the writings on military Medicine. Such immunity would seem explicable by the fact that the wounded under treatment in ambulances are sheltered from fatigue and atmospheric vicissitudes. It would also seem to clear up some obscure points on the etiology of the affection, confirming the opinion of those who attribute a principal part to the influence of climate, and weakening the hypothesis of contagion. 3. Although anterior traumatic lesions do not appear to have any influence in the production of scorbutus, on the other hand, when this disease pre-exists, they play an indubitable part in the localisation of the disease. 1. Scorbutus supervening after traumatic lesion, when reparation is incomplete or of recent date, may retard or destroy the reparation. This a common occurrence. 5. A traumatic lesion affecting a scorbutic person furnishes a place of election for the most common local manifestation of this malady-external. interstitial, or cavitary hemorrhage. Further investigations are required to determine whether these hamorrhages are traumatic or mechanical, or whether histological lesions are necessary for their production. If the capillary vessels were in quite a normal condition, it would be difficult to understand how slight pressure should suffice to rupture them while still protected by the tissues which cover them, as also how those of them which are more exposed in granulations or mucous membranes should so easily give way when the pressure of the column of blood is reduced to its minimum, owing to the extreme enfeeblement of the heart. 6. The diminution of the fibrin of the blood in this disease formerly admitted, is now disputed. At all events it does not lose its coagulability. Moreover, incisions, even when made on a portion of the integument which has already undergone alteration, furnish only a moderate quantity of blood, and are followed by spontaneous and prompt arrest of the bleeding. 7. The wounds manifest little or no tendency towards reparation, and may take on the specific characters of spontaneous scorbutic ulcers, or become phagedenic. At the present time, by the aid of suitable hygienic and therapeutic treatment, the progress of the disease may usually be arrested. 8. The coincidence of scorbutus and an open wound may render the etiological determination of certain of the visceral lesions observed in this case-as steatosis of the liver and pulmonary apoplexy-a matter of difficulty, as these conditions might be supposed to be due to chronic septicemia, or putrid infection and pyæmia. "In prolonged suppuration, occupying large and irregular surfaces, nothing is more common than steatosis of the liver; but the lesion is not of less frequent occurrence in acute or chronic diseases in which there is a tendency to hæmorrhage. This fact, well known to Physicians, especially since the time of Monneret, had been but little remarked by Surgeons when I endeavoured, some years since, to call attention to it and exhibit its importance in the history of primary and secondary traumatic harmorrhage," 9. Therefore the hæmorrhagic tendency, so marked in scorbutus, should always lead us to direct especial attention to the liver.

Dr. E. Müller, Director of the National Vaccine Institution at Berlin, writes (Berlin Woch., April 17) to state that the events of the epidemic of small-pox supervening on the war have amply confirmed the opinions he has so often expressed of the value of glycerined lymph. The faster the epidemic extended the more at a loss were all the authorities of the places invaded to know where to get their supplies of lymph for the revaccinations which the public so urgently demanded. Even the supplies of vaccine establishments themselves were utterly exhausted. From Holland, where in several towns establishments for "animal" lymph had been founded, the most urgent demands were addressed, and in Bavaria, Baden, and Luxemburg the same want was also felt. The stores of the Berlin establishment, however, were, thanks to glycerine, so complete that the wants of all could be supplied from them, while it was also able to furnish the means of revaccinating the troops exposed to danger in France, and the recruits going there, as also the inmates of the German prisons. So well acknowledged has now become the value of lymph mixed with glycerine, that the majority of those who send to the establishment expressly request that this only may be sent them. Still, there are too few persons aware how easily they may prepare the mixture for themselves; for, had this been more generally done, such a superfluity of lymph would have been produced that it would have been impossible for the epidemic to have taken on its present extension. How easily every Practitioner may meet the difficulty of supply, is shown by a quotation which Dr. Müller gives from the report of the Medical officer of one of the prisons. He says that at the beginning of this year he found the small-pox rapidly increasing among the inmates, and that as many as 5142 men were in urgent need of revaccination. Three infants were vaccinated by glycerined lymph received from Berlin, and with the lymph derived from these, diluted with glycerine, fifty men were revaccinated, with such brilliant results that, fourteen days after the commencement of revaccination, the Surgeon was a possessor of fifteen grammes of glycerined lymph. With only one-half of this, he was enabled, within another eight days, in the coldest February weather, to revaccinate nearly 4000 men. In answer to numerous inquiries. Dr. Müller states that his pamphlet on vaccinating with glycerined lymph is to be had at Hirschwald's, Berlin. He adds that the most certain mixture consists in one part of lymph, two parts of pure glycerine, and two of distilled water. As no solution of the lymph takes place, the glycerined lymph must be well mixed up again each time before using it.

Kreis-physicus Wiener, of Culm, writing on April 24 to the same journal, states that during 1870 be vaccinated 1600 children with lymph, in the proportion of 1 to 3 and 1 to 4 of glycerine, with the most unusual success, only five failures having, in fact, been registered. The pustules were just as fine as those produced by unmixed lymph, and exhibited nothing abnormal in the course which they ran. He obtained just as good results from other vaccinations performed in February and March, 1871, although the lymph employed for that purpose had been collected and glycerined in July, 1870, therefore eight months previously. In this last particular the glycerined lymph offers a great advantage over the ordinary lymph, which sometimes loses its inoculative power in a few days. In preparing the mixture, he empties lymph which has been collected in some of Bretonneau's tubes into a small porcelain saucer, such as is met with in colour-boxes. To this he adds, by means of capillary tubes of about the same calibre, equal parts of glycerine and distilled water, rubbing the whole well up by means of a glass rod, which he thinks is preferable to the hair pencil employed by Dr. Müller. The mixture should be stored away for use, in capillary tubes, in a cool and dark place. Before arming the lancet with it, it should be mixed up again.

PARLIAMENTARY. -- METROPOLIS WATER-SUPPLY -- THE CASE OF MRS. INGRAM -- CONVEYANCE OF FOUL LINER IN CABS.

On Tharsday, May 25, in the House of Commons, Mr. Bruce moved the second reading of the Metropois Water Bill, the main object of which, as he explained, is to provide a constant supply of water under regulations for the prevention of waste to be framed by the companies and sanctioned by the Board of Works or the Home Secretary. The compulsory powers of purchase are abandoued, but the Select Committee to which the Bill is to be referred, as a hybrid bill, will bare power to settle, if possible, terms of purchase, which, however, are not to take effect until a system of local govern-

nowever, are not to take effect until a system of local government is established for the interropells:

""" the professed to speak in the interests of the consumer and ratepayer, though a recently-effected director of a water company, and who contended at great length, and amidst constantly increasing exposions of impatience, that the Bill would not carry out its

A long discussion followed, turning less on the merits of the Bill than the propriety of pressing it forward at between one and two o'clock in the morning, and ultimately, at ten minutes past two, after one motion for adjournment had been defeated, Mr. Bruce consented to postpone the Bill until Friday. On Friday.

Mr. Wilmot asked the Secretary of State for the Home Department whether Mrs. Ingham, who was tried at the Derby Assizes in July, 1869, for the murler of her child, and acquitted on the ground of puerperal insanity, had been certified by the Medical Officer of the Derby County Gaol to have become perfectly sans within a few days of her trial, whether the Visiting Justices had twice applied for her discharge; whether, in answer to the last application on April 4, 1671, they were informed that the last application on April 4, 1671, they were informed that all heating the states of the House of the decrease of the state of the House on what grounds be did not feel justified in granting her discharge after her recovery had lasted for twenty-two months.

M. Bruce, in veply, said that these cases, as bon, members could easily imagine, were extremely difficult to decide. The facts, lowever, were not exactly as stated in the hon, member's question, for Mrs. Ingham was not acquitted on the ground of purepreal insanity. After apparently a fit of extreme depression she cut the throat of her child, and on her trial she was equitted on the ground of insanity. It was no doubt true that she had been certified to be same; but Mrs. Ingham had another child, only 4 years of age, and it was quite possible that if she were released noted in high the catalogners. All these circumstances had to be taken into consideration by a Minister in deciding a question of this nature, and he should be departing from the practice of his predecessors if he were hastily to order her released arche a short confinement.

In answer to Mr. Eykyn,
Mr. Bruce said that an inquiry into the matter had failed to
show that the conveyance of foul linen in metropolitan case
had caused any mischief in the way of the transmission of
contagious or infectious diseases. In the case of one estapations, but the case were employed for that purpose only,
If it could be shown that diseases had been transmitted by the
conveyance of foul linen in cash; it might become necessary

introduce an Act of Parliament to prevent the practice in

Jiture.

Mr. Bruce said that, in consequence of the objections of many hon, members to the Metropolis Water Bill, and of the suggestion of the hon, member for Ayrshire, the Government Bull and ask leave to introduce a new Bill on the subject.

Mr. Craufurd expressed his satisfaction at the course taken by the Government.

The order for the second reading was discharged, and leave was given to introduce a new Bill.

AUTOBIOGRAPHICAL RECOLLECTIONS OF THE PROFESSION

No. XIII.

By J. F. CLARKE, M.R.C.S., For nearly forty years on the Editorial Staff of the "Lancet." A Private Medical School Forty Years Since-Latitude of

Students - A Batch of Lecturers: Michael Ryan, George Durby Dermott, and John Epps-London Medical and Surgical Journals - Rival Editors - An " Original" Editor - A Host of Witnesses - A Wager and Practical Jule - Politics and Medicine. At the time of my entering to lectures (October, 1833), the private schools were in their zenith. I shall have something to say about them generally in a future paper, so, on this occasion, I shall give a description of one only. The "Gerrard-street" or "Dermott's" School was situated at the Westminster Dispensary, in Gerrard-street, Soho. The lectureand dissecting-rooms were on the second floor of the building, and, at that time, were as complete as almost any other in London. At this period a lecturer was permitted by the Examining Boards to lecture on three subjects. The staff of the Gerrard-street School consisted of Dr. Michael Rvan, who lectured on Medicine, Midwifery, and Medical Jurisprudence; Dr. John Epps, on Materia Medica, Chemistry, and Botany; Mr. Dermott, on Anatomy, Physiology, and Surgery. The fee for "perpetual" attendance on these courses was £22. The "cutries" were numerous, and, at the time when I joined the School, the alumni numbered nearly 300. At the present day the course of education pursued in this School would be regarded as most imperfect and unsatisfactory; but it is doubtful whether it did not fulfil all the requirements of the period, quoad the examinations at the College and Hall. These were very different from what they are now. Many of the Gerrard-street scholars attained, in after-life, distinction and eminence. The three lecturers named above had no academical distinction, but they were representative men of the period, and some account of them may not be without interest to the present generation. I shall describe them in the positions they occupied as important teachers. George Darby Dermott was of Irish extraction, and, I believe, the son of an Irish Presbyterian minister. He had many of the merits and some of the faults of his countrymen. He was eloquent and impulsive, often wayward and uncertain; but it may be doubted whether any man of his time had a more consummate knowledge of anatomy, or could convey that knowledge more forcibly and instructively than he did. It is true that he had no "system," and it was no uncommon occurrence for us to have a demonstration of the bones of the foot one day, and of the brain the next. He had, however, the excuse of a deficiency of subjects, at a time when the teachers had to depend entirely on the supply afforded by the resurrectionists. Moreover, he had no prosector. In one respect this was an advantage to his class, for he would constantly dissect while demonstrating. This proceeding had the effect of arresting the attention of his audience, and of instilling into their minds what may be called the first principles of anatomy. His great fault was his attention to what may be regarded as unnecessary minutie. This was sometimes wearisome and unproductive. To give an instance:-The first six weeks of his course on anatomy were

devoted to a description of the bones of the head. Every foramen, however minute, every sulcus, however unimportant. was unnecessarily enlarged and elaborated upon. In this respect he was undoubtedly at fault, but he could never see his error. He published two works eminently illustrative of his peculiarities as a teacher. The first was a large octave volume premarature as a rescner. An nrss was a large octavoclaims of the Anatomy of the Bones of the Head; the second was his Surgical Anatomy of the Head and Nock. Nothing less practical than the first could be conceived, nothing more practical than the second ever issued from the press. In the first production I was this manuscensis. The preface is one of the "curiosities" of Medical literature, and was concocted between ns. Our connexion in literary subjects was something peculiar. The plan pursued was our retirement to some tavern in the neighbourhood, where we could have a private room. Dermott primed himself with gin-and-water. I invariably fortified myself with a glass of port wine. He walked about the room dictating to me what he wished to say. Great anatomist as, undoubtedly, he was, he was marvellously deficient in bringing to bear upon his subject what a soldier would call the influence of the "light artillery." He was singularly wanting in placing his views in an attractive form. He was minute; I was placing his views in an attractive form. He was minute, I was the discursive. He made the Corinthian column; I was the humble assistant in attempting to adorn it. It may well be supposed that the assistant architect had very little work to perform. After the lapse of nearly forty years, I feel it my duty to my old preceptor to acknowledge the great obligations which I owe to him, and there are thousands throughout the length and breadth of the land, and in various parts of the world, who will bear witness to the remarkable ability of Dermott as a teacher of anatomy. Dermott was the assistant of the celebrated Joshua Brookes, at his Theatre of Anatomy, in Blenheim-street, Oxford-street. That once renowned school is now a lead warehouse, and is situated just behind Colbourn's, the late publisher's house, in Great Marlborough-street, and is the first building on the right in Blenheim-street. After Brooke's death, within a fortnight of the opening of the Medical session, Dermott being unable to obtain possession of the Blenheim-street pre-mises, bought the lease of a house in Little Windmill-street. He made a contract with a builder to alter the house in fourteen He made a contract with a billinear to later to house in fourteen days in such a way as to fit it for an anatomical school. He used to boast, in after-life, that he superintended the workmen, and, by having relays for night and day work, and by "giving them as much beer as they could drink," they worked with a good will and alacrity such as he had never seen surpassed. "Don't talk to me," he would say, " about the injurious effects of beer—at all events, for a certain time." Dermott opened the session with a moderate class. This school was afterwards well known as the "Little Windmill-street School," at which Tuson, Guthrie, and Jewel lectured. It is the second or third building on the left from Brewer-street, and is now in the occupation of Mr. Nichols, a leatherseller. Dermott was an enthusiastic Mr. Nichols, a leatherseller. Dermott was an enthusiastic reformer, and interspersed his lectures with sarcastic allusions to the deficiencies in the Medical corporations, the necessity to the conciences in the six-cursal corporations, the necessing for legalising the sale of dead bodies for dissection, and for Medical reform generally. He ridiculed with much humour the wearing of gowns by Professors when lecturing at the Universities or other schools. He characterised the gown as a "piece of black rag hanging from their dorsal spine." a "piece of black rag hanging from such the difference of petitions to He came daily to lecture with a great bundle of petitions to Parliament for the removal of grievances, and these, signed by his pupils, were continually being presented to the House of Com-mons, and had, no doubt, considerable influence in the carrying mons, and mad, no doubt, considerance influence in the carrying out of the Anatomy Act. He was very unpunctual as to the time of commencing his lecture. This gave rise to many quarrels between himself and his pupils. His lecture in the afternoon usually occupied two hours, and if he observed symptoms of weariness in his audience, he would say, "Gen-tlemen, you are fatigued with the subject; let us have a little interlude to revive you." He would leave off demonstrating the muscles of the thigh for a few minutes, and give us the soliloquyof "Hamlet," or the death scene in "Richard III.," amidthe enthusiastic applause of his audience. He would then finish the entimensate appliance or in a numeric. The would tree minimal inclumentation. He was not a great physiologist, and of practical Surgery he knew very little; but nobody could star exception to his teaching of the principles of Surgery. At the time to which this paper refers, students of Medicine had none of those ideas of propriety of conduct which happily characterise the present generation, and some of them "br loose" to an extent which could not now be tolerated. The morning lecture commenced, or was supposed to commence, at ten, and on the names being called over certain well-known "fast young gentlemen" were frequently absent. "They will

soon be here," Dermott would say; and he was right. A sound was heard on the lower stairs, and a chorus of roices of "See the conquering hero comes," announced that the night revellers were returning to their allegianne. The lecturer would pause for a few moments to allow the "denizens of the night" to take their seats, occasionally loaded with the troobiest might." of their night's amusements, consisting of knockers and other articles, which they had brought forward as symbols of the previous night's exploits. Once seated, however, Dermott previous night's exploits. Once seated, however, Dermott would not permit any deviation from the strict rules of decorum necessary to be observed in the lecture-room. If anyone ventured to infringe those rules, he was instantly silenced by the lecturer. Dermott was convivial to a fault in his habits, and took a great delight in inviting his class to his house on certain evenings to "drink punch and smoke." He generally accompanied his invitations to these meetings with some remarks on the advantages of keeping within reasonable bounds with respect to the quantity of punch they would imbibe. "But," he would observe, "I do not wish to be inhospitable; But, he would observe, "I do not wash to be inhospitable; I wish every man to enjoy himself under my roof; and, gentlemen, if any of you, or all of yon, after leaving my residence, has or have the misfortune to be intercepted on your way to your lodgings, send for me, and I will ball you; I make it a point not to go to bed early on these evenings, in order that I should be forthcoming to relieve you in any difficulty in which you may be placed." Unfortunately this promise required to be often acted upon, and it is to the honour of Dermott that he never failed in fulfilling it. In those days the offender was not required to go before a magistrate. The habits of the students of Medicine have happily so greatly improved during the last thirty-five years that they can beer comparison with the alumni of any other profession or calling. In summing up the character of this remarkable man, thousands of whose pupils are now practising their Profession with honour and credit, and many of whom, I have no doubt, will read this account of their old master with the conviction of its truthfulness, I should say that Dermott, so far as anatomy is concerned, had a talent for teaching beyond any man of his time. He was plain, clear, and energetic, and if a student failed to appreciate the value of his instruction, it was the fault of the pupil, and not of the teacher. That he had faults may be readily imagined after what has been already stated. These were partly due to his erratic mode of teaching, but more, probably, to the circumstances under which he was placed. This short and imperfect account of him, if not entirely correct, is, in the main, just to his memory, and anyone acquainted with the history of his time will have no doubt sequinteed with the instery of his time will have no control that he exercised a very important influence on the future of anatomical teaching. It should be stated, to his honour, that his pupils were seldom rejected at the College of Surgeons, and many students from other schools entered his private class, in order to complete their knowledge of anatomy. In person, Dermott was above the middle height, active, and firmly built: his face was expressive of some power; he had a good fore-head, bright, intelligent black eyes, and a somewhat large mouth. In lecturing, he spoke in a loud shrill voice, almost

amounting to a falsetio.

Dr. Michael Ryan, the Lecturer on Medicine, etc., was a gennine Irishman. His lectures were of a somewhat "rigmarole" kind, or, more properly speaking, compilations of almost every author from the time of Hippocrates downwards Ryan was totally deficient in originality, and was a very inferior Practitioner; but he was learned, had most agreeable appearance was troughly impressed with the importance of appearance of appearance with the second of the control hard not the carry a goundested came, out no and a hard of hard gold smift-box, the contents of which were frequently applied to his olfactory organ. He was one of the Physicians of the Western Dispensary, in Charles-street, Westminster, and most of his students at the Gerrard-street School were also his pupils at that institution. At this time the Apotheoaries Company received the certificate of fifteen months' attendance Company receives any certificate or fitteen months avenuative at a recognised Dispensary as ordicate that the candidate for their licence had passed through a sufficient course of Practical Medicine. Ryan had a curious way of eking out a lecture. He would select for his thome some case which he had treated at the Dispensary, and if any remarkable case occurred there, he had a fine opportunity of availing himself of this privilege. I recollect, on one particular occasion, he had treated a case of hypertrophy of the heart "successfully" with the iodide of potassium. He did not think it sufficient to state the fact; he would take from his pocket a list of

amounting to a falsetto.

the names of students who attended his practice at the Dispensary. "Gentlemen," he would say, "I have the honour of giving you the names of those who witnessed this remarkable case;" and he read from the list the names of 150 of those who were, or ought to have been present. The reading of this list necessarily occupied a considerable portion of his lecture, and he would conclude with the remark "With such a host of witnesses, gentlemen, I think I am entitled to assert that my diagnosis was correct and my treat-ment most successful." His audience, of course, cheered and His audience, of course, cheered and laughed. Ryan, however, at this time, did valuable service to the cause of the Profession. He was editor of the London Medical and Surgical Journal, then published by Renshaw, in the Strand. This journal might be regarded as a counterpoise between the Lancet and the old Medical Guzette; it avoided the personalities and virulence of the Lancet, and the tamoness and milk-and-water contents of the Gazette. It ought to have been the leading journal of the time, but, unfortunately, a dispute between the editor and publisher of the journal led to a dis-ruption between them. The consequence was, Renshaw carried on the Journal, which was edited by John Foote, then a General Practitioner in Tavistock-street, Covent-garden. Foote was a man of undoubted ability, but conceited and prog-matical. Ryan published an opposition journal, to which he appended the title of "original." Foote was not a match for learned and cumbrous antagonist. I have reason to believe that if the Medica! and Surgical Journal had been carried on in the manner in which it was originally framed it would have had a most beneficial influence on the Profession. excluded from its pages the disgraceful attacks on personal character which then were a prominent feature of the Lancet, it afforded to a large class of contributors to periodical literature a medium of expressing or publishing to the world their experiences in the science and practice of Medicine. Unfortnexperiences in the science and practice of accurcine. Unfortu-nately, the quarrel between Renshaw and Ryan terminated in a collapse of both the journals, each having deteriorated in every way, and Ryan's "original" was badly printed on bad paper. For some months I assisted Ryan in the editorship of the journal, and for a little time was sole conductor of it. need scarcely say that it would have been a wonder if it had need scarcely say that it would have been a women for it in his been auccessful under the management of a boy just out of his teems. Still, we had some certainty of the strength of the stren The post-mortem examination was made by me at seven o'clock on a January morning, the two Physicians being present at that early hour. I never saw so much general visceral disease in any body before or since. Ryan wrote a work on Medical Jurisprudence—a mere compilation—and one on the "Philosophy of Marriage," which it is well never reached a second edition. Byan was just above the middle reacned a second edition. Ivyan was just above the middle height and inclined to corpulency; he was of fair complexion and red haired. His face was truly Milesian. He had a large head. He was a goodnatured, kindhearted man; but too facile, and with little consistency and firmness. He was a favourite

with his pupils.

John Epps, Doctor of Medicine of the University of Edinburgh, was, I believe, the eldest son of Mr. John Epps, who some fifty years ago was noted for having a ham and beef shop in almost every part of London, and was the subject of one of the most humorous of Hudson's comic songs. Dr. Epps was a better educated man than either of his colleagues, and he had natural abilities of a very high order. He was conscientious and painstaking as a lecturer, but he had an imperfect prac-tical knowledge of either of the subjects on which he lectured; somehow or other he managed to instil a fair amount of in-formation into his pupils. He knew more of Materia Medica than of chemistry or botany. The two latter sciences were tanglit than of chemistry or botany. In a two latter sciences were tangut why him less practically than could have been desired. He, however, the control of the control of the country of the cou was very great—a serious loss at that time, when guide was of an enormous ralus compared with the present day. He, how-are the serious control of the serious control of the even when the blundering papil had smadled a dozen or more of the best glasses, the goodnatured little may would say, "Try it again, my friend, you will get on better soon." He confined his teaching of bottap chiefly to the system of Linnsens. His style of lecturing was clear and attractive. He had a fund of anecdote, and was what Bacon called "a full man." He had read much, and was possessed of varied knowledge. I recollect, on one occasion, two or three of the students played him an innocent trick, which afforded him an opportunity of showing his readiness in resources. bet was made that Epps would not be able to tell the name of a plant which one of the students would present to him; this wager was accepted. Accordingly, H-, a Yorkshire pupil, after lecture one morning, produced a plant. I think it was would feel obliged by being informed of its name. smiled, and said, "My friend, I should be happy to tell you, but you would derive more benefit by finding it out yourself. Do so, and if I find you correct when I come to-morrow morning, I will give you my life of Dr. Walker."— In the meantime a name was invented; I cannot recollect exactly what it was. The next morning punctually at ten—for he was always punctual—in walks the little Doctor with a book under his arm. "Well my friend," said he, addressing H——, "have you discovered the name of the plant." "Yes," "nave you discovered the name of the plant." "Yes," said H.—, "it is so-and-so." "Very good; and here is my life of Dr. Walker." Those in the secret could scarcely refrain from a laugh; but a proper decorum was observed. H.— won his

wager. Epps had very strong political views. He was one of the school of Burdett and Cobbett; but, unlike Dermott, he never mentioned politics in his lectures, or, if he did, it was in the most cursory manner. Out of school he had no such reserve. most cursory manner. Out or serious ne non no such reserve, and would speak at public meetings, or write articles of the most advanced kind. When an election was going on in his borough (Finsbury), it was his custom to have in front of his bouse in Great Russell-street a huge placard with the names of his favourite candidates emblazoned on it. He was an excellent speaker; spoke always to the point, and had a dry, quiet humour, which made him a favourite with his audience. He was a man of extraordinary industry and perseverance, and never succumbed to difficulties or hard work. He was a firm believer in phrenology; Dermott was as much opposed to it. Dermott, though an energetic and practised speaker, was no match for Epps in debate. He lost his temper, and blurted out offensive epithets; his wit was low and personal. Epps, on the contrary, never got out of temper; made fun his antagonists in a goodnatured way, and was usually

thoroughly up in the subject he was treating.

In person he was below the middle height, and had something the appearance of a Quaker. He wore a broadishbrimmed hat, low down over the forehead, which was one of the finest I have ever seen. His features were regular, and pleasing in expression. After the Gerrard-street School broke up he took to the practice of homosopathy. He died a year or two since, full of years, and with the kind regrets of many of those who admired the man whilst they regretted his "non-

conformity."

WÜNDERLICHS

MEDICAL THERMOMETRY.(a)

It is a remarkable circumstance in the history of Medicine, that great discoveries are sometimes allowed to lie unnoticed for a series of years. That Dr. Currie's reports on the temperature of the body in disease should have been so long overlooked is the more remarkable, because his work had been preceded by observations on the same subject by Physicians in this and other countries. Little, however, was done on the temperature of disease for the first forty years of the present century, and it was not until about thirty years ago that the subject began to excite the notice of observers in France and Germany. Since then, Roger, Demarquay, Zimmerman, Helmholtz, Liebig, Mayer, Barensprung, and Traube commenced from various points of view and by various methods the work of establishing the knowledge of animal heat on a physiological basis. To Mayer we owe the doctrine of the unity and correlation of forces in the body, the change of chemical work into heat, or into motion, or into electricity, etc., the theory on which depends the true explanation of animal heat, both in health

For the last twenty years our author has been registering thermometric observations in his clinique, and it was only after he had with true scientific patience accumulated 100,000 observations that he ventured to determine what he justly calls the most important and most decisive question in pathology— viz., Do certain diseases in their progress obey fixed laws or rules, and can this be determined and displayed by the course of the temperature?

He claims to have proved the domain of law in disease by discovering that the alterations of temperature in disease are subject to fixed rules; and he divides maladies into three

1. The true typical states of disease; those which almost invariably show more or less clearly a characteristic type, and in which there is seldom, if ever, a complete deviation from the

typical form.

2. The group of approximatively typical forms of disease, in which characteristic types may be certainly recognised in the abstract, but which, although in certain stages they exhibit great regularity, yet occasionally deviate very widely from the typical, and almost constantly display a great breadth and laxity of behaviour.

 Another group, formed by those diseases which, in certain circumstances, conform to a regular type, but which generally run their course without fever. When, however, fever super-

venes, a regular type is generally displayed.

As a result of his observations with the thermometer,

Wunderlich would divide febrile disease into five principal groups-1. Including cases of fever running a short course. groups—i. including cases of fever running a short course. 2. Continuous fevers, ending by crisis. 3. Acute remittent fevers, ending by lysis. 4. Intermitting and relapsing fevers; and, 5. Chronic fevers. But the value of thermometry in Medical practice is not confined to the mere diagnosis of the The varied modifications diseases exhibit, the passage of one stage into another, the times of exacerbation and remission, the development of complications, the severity of the attack, and the amount of danger, are at least of equal importance; and thermometry serves as an indicator to the Practitioner on these points at an earlier period and more trustworthily than any other method of investigation.

In speaking of the temperature of health, and whilst stating that our knowledge of the temperature of healthy human beings must be the basis of all our conclusions to the temperature met with in disease, our author advises caution in transferring results so obtained to the organism of sickness. As illustrations of the need of his caution, we may adduce the effect of menstruation in raising the temperature in many women labouring under various maladies, whilst in health this function is seldom preceded by any such elevation; the lowering of temperature consequent on the toxic effects of alcohol in disease so often surpassing the effect in health; the considerable rise in temperature on muscular exertion in cases where there is any previously existing morbid condition, however slight, is any previously existing moroid conduction, however signt, as well as the elevation of temperature occurring during the period of digestion in sick people, which so generally exceeds considerably the effect of the same process in health. We commend these examples to the consideration of experimental pathologists.

The phenomenon of specific heat and its constancy is the result, on the one hand, of the continual production of warmth, which occurs in almost every part of the body, and, on the other hand, of the ceaseless loss of heat, processes which are always going on simultaneously whilst life remains. The innumerable chemical processes going on in the system, and especially the combinations of the alimentary materials converted into blood, and, although in a less degree, of the tissues with the oxygen inspired, the oxidation of this material, the (so to speak) continuous slow combustion of the blood, and of all the materials capable of oxidation introduced into the body these are the sources of a ceaseless and copious development of heat; whilst the continuous loss occurs by radiation, by conduction, or transmission to other bodies, by evaporation of secretions in a gaseous form, and, lastly, by the furnishing of mechanical work, the change of heat into motion.

But whilst we acknowledge the constancy of this equipoise in the healthy human frame, we are still far from having found the regulating influence that maintains the balance so evenly between production and loss. The instinctive variation of food according to the climate, and the increased perspiration and respiration when the production of heat is augmented, will, to some extent, account for the equilibrium maintained under varying conditions; but, allowing full scope for these phenomena, there still seems to be wanting some regulator, under the influence of which the loss of heat so exactly balances the

⁽a) Translated by Dr. Woodman. New Sydenham Society.

production. It is very tempting (though proof is deficient), to attribute this regulating power to the nervous system, partly because of its alose relations with the other portions of the economy, and partly because the change in the calibre of the smaller vessels, and, consequently, the blood-supply of all the organs, depends upon one part of the nervous system itself. If, however, we were to allow this to a far greater extent than with our present knowledge is possible, it would only be putting the difficulty one step farther back. What gives the nervous system this regulating power? The more reasonable theory is, that increased production of heat necessitates increased loss; activity of secreting organs necessitates loss of heat by loss of the secretion; chemical change, causing muscular contraction, necessitates loss by the amount of work done, or by increased perspiration, or augmented radiation, etc. To say that the nervous system is the regulator of these conditions is simply to say that it is the medium of reflex phenomena, the connectinglink that binds one organ to another.

The causes of altered temperature in disease-of defective balance, in short-may be many and various. Increased production of heat and diminished loss of it, or increased giving-off of heat and diminished production, may exist singly or in combination. The more or less rapid destruction of tissues, the formation of abnormal chemical products of the metamorphosis of tissues may form new sources of heat-production; whilst the copious losses of the fluids of the body, and the deposit of larger but less vitalised masses, such as exudation and extravasation products in the body, may cause a morbidly lowered temperature. Among the most interesting phenomena with respect to these causes of altered temperature are those observed after the injection of putrid solutions, and those depending on

injury of some portion of the nervous system.

From a review of experiments on the nervous system,
Tscheschichin holds the theory of centres of control, which have their seat in the brain, in order to regulate the activity of the spinal cord. By the ceaseless activity of these, the intense activity of the spinal cord is diminished; when they are destroyed or isolated, the activity of the spinal cord is morbidly increased, and for some time exhibits itself in excess of functional activity, increased reflex action, quickened respiration, acceleration of the cardiac systole, and increased animal hent. Wünderlich himself says that, although some fluctuations of temperature may be attributed to alterations of circulation, yet, from another series of observations-those, namely, with enormous elevation of temperature-we learn that some hitherto unknown power has sway over animal heat, since the most remarkable alterations of temperature occur with profound disturbances of the nervous system without corresponding anomalies of circulation; and it is perhaps not too much to affirm that the integrity of certain parts of the central nervous system is more necessary for the regulation of animal heat than that of any other part of the body.

He proceeds to discuss rigor, pyrexia, and collapse: of the order we shall only say that it is found with a normal, an ascending, and a very elevated temperature, and also with one of depression and collapse; but it is when the temperature of the trunk rises rapidly, whilst that of the hands and feet re-mains stationary or even falls, that a rigor most usually occurs, and especially if with this rapid rise of the internal temperature the warmth of the surface of the body is rapidly abstracted in great quantities. An increase of temperature all over the in great quantities. An increase or temperature an over mo-body is determined in Wünderlich's opinion by an accumula-tion of heat caused by deficient abstraction of warmth; by the communication to the body from a local centre of increased warmth-production; by increased activity of the normal provariation of the production of heat; by an over-production of heat, resulting from abnormal chemical processes so extensive as to exceed the power of the ordinary channels of loss to compensate it; by alterations in the degree of activity of the vasomotor nerves; and lastly, by morbidly increased action of the spinal centres, in consequence of loss of power in the moderating portions of the brain. The range of temperature observed in human beings during life is limited to 8°C. (about 15° Fahr.); but it is a remarkable phenomenon that high degrees of temperature, that are positively indicative of a fatal event in some iseases, are borne without harm in others. In both typhus and enteric fevers, higher temperatures are borne more safely than in pneumonia, and higher in scarlet fever than in measles. This fact is another point in favour of definite laws for different diseases.

It is useful in many diseases to determine the time of day at which the greatest elevations occur. In most acute diseases, characterised by pyrexis, we generally find the remission begins in the time between the late evening and the early

morning, and lasts through the later hours of the morning. The exacerbation begins in the late morning hours, or even the first hours of the afternoon, and lasts till late on in the evening—till midnight, perhaps, or even later. As exceptions to this rule we must place malarial fovers and pytemia, and some-times the hectic of phthisis and tuberenlosis. So regular are these periods in discases of ordinary severity, that the occurrence of the exacerbation increasing, early in the day warms us of an abnormal severity of the disease. Many other points a fertility of illustration that could only be based on a very large number of observations. The varieties of ascent, of acine, and of defervescence in different diseases; the relation of the latter to the pulse; the fact that when diseases which usually exhibit a remittent or non-continuous course assume a continuous type it is always to be regarded as an unfavourable symptom; the temperature of the pro-agonistic stage, and of the agony, and in some morbid conditions the rise of temperature after death, caused by the occurrence of changes in the substance of the muscles, and by post-mortem decomposition, whilst the cooling processes of respiration and perspira-tion have come to an end, are all subjects well worthy the study of all Physicians.

Our volume ends with a resume of the author's extended experience of the temperature of acute diseases. To this portion of the book in detail we commend our readers, and shall only refer to the temperature in acute miliary tuberculosis and acute phthisis. In the former, gradually deep remissions, which almost descend to the normal point, occur, and alternate with febrile evening exacerbations of considerable height. Yet even by this behaviour of the temperature Wunderlich says it is not possible to distinguish acute tuberculosis from acute non-tuberculous phthisis. It would be satisfactory to know what he means by the latter term. If he is referring to that condition of condensed lung which constantly breaks down into isolated abscesses, so beautifully figured by Dr. Addison, the statement may be received; but if he means that condition of disease which is manifested in the lung by soft infiltration of semi-easeous material, here and there breaking up into irregular eavities filled with grumous matter, debris of spincelated lung, etc., we would venture to assert that in this latter condition the intervals of normal or nearly normal temperature are much more frequent, and often much more prolonged, than in acute

miliary tuberculosis.

We cannot close this notice of Wünderlich's book without congratulating the New Sydenham Society on the excellent translation of Dr. Woodman. The original text is often crabbed and involved to an unusual degree, and in some places it would have been impossible to give the author's meaning without a para-phrase. The translator has rendered into readable English, and enriched with practical notes, a book which, even in its original form, has startled into active work many Physicians in England, France, and America, and which now, in its more popular form, must render the diagnosis of disease infinitely more accurate. His appendix of thermometric equivalents is most useful, although we agree with Dr. Clifford Allbutt that it would be better that all observations were registered on the Centigrade scale. The publication of a book like this, and the clinical work to which it will give rise, will go far towards making Medicine one of the exact sciences, and will establish the fact, hitherto not fully recognised, that disease, like all other natural phenomena, is under the domain of law.

SUPPOSED CASE OF SMALL-POX IN UTERO,-The death of an infant, said to be still-born, but having marks appaor an initialit, said to be suite-torin, our naving marks appeared from violence, was recently reported to Mr. Caritar, one of the coroners for Kent. The mother was unmarried. Two women were present at the birth, but no Medical man. The report of the post-mortem examination stated that there were some marks about the face, and that the lips were swollen and blistered, and bloody, but there were no positive marks of violence. There were two or three spots upon the face, something resembling small-pox, and the bones of the head were very flaceid, and the body was rapidly decomposing, from which it was concluded that the child must have died from disease in utero. It appeared that the grandmother had died from small-pox, and that the mother took charge of her, and went in the same van with her to the Hospital, only a her, and went in the same van with her to the Hospital, only a short time since, and the grandfather said that she had "smelt-like her mother" (the grandmother) ever since, but had not evinced any sign of small-pox herself. Query: Could the grandchild have contracted small-pox in utero without its mother showing any sign of it?

FELIX VON NIEMEYER: A NECROLOGY.

Or all the accounts which we have perused of this distinguished Physician and Professor, the following, contributed by an intimate friend to the pages of the Berlin Klinische Wochenschrift, is by far the best:—

The new of the death of Felix von Niemeyer, which occurred on March H. at Tubingen, fell upon the wide circle of his friends and admirres like a thunderbolf from a clear say, the friends and admirres like a thunderbolf from a clear say, the severe malady which had placed him in a hopeless state. These are desired to the severe malady which had placed him in a hopeless state. These are desired to the severe malady which had placed him in a hopeless state. These however the severe serverly aware, amidst the crash of war. These however the more painfully surprised at the news of his death as accounts of his svaluable labours near the seat of war continued to appear in the newspapers to the end of December. Everyone a tone asked himself whether the toil of his efforts, continued over several months, in the Hospitals of Lorraine, had not led to the rapid development of the germs of the disease which had some time since been planted in his system. And there can scarely be any doubt that his vote although lost autumn his was pretty well aware of his own out although lost autumn his was pretty well aware of his own condition, yet he resolved to undertake the mission, regarding, as he did, all services to Fatherland as a paramount duty. He had, indeed, already furnished proof of patrotic self-serifice by consenting to his only son serving as a volunteer in the Wittemburg availary. For this, in truth, he had his recompense, by the return of his son a few weeks before his own death, but might be found to the control of the sory death of the had his recompense, by the return of his son a few weeks before his own death, but might be found to the had his recompense, by the return of his son a few weeks before his own death, but might be found to the had his recompense.

Emperor as a reward for his bravery.

Niemeyer was born at Magdeburg, December 31, 1820, his father, Dr. Carl Edonard Niemeyer, who died in 1837, being a father, Dr. Carl Edonard Niemeyer, who died in 1837, being a highly estemed Fractitioner of that city. After he had received his education at the Gymnasium, Felix repaired to Halle, in 1839, in order to study Medicine, and remained there until 1842. Thence he went to Prague and Vienna, and favour of the public; and being an enthusiastic lover of his Profession, and thoroughly penetrated with a love of mankind, his resuless activity enabled him fully to meet all the demands of a very extensive practice. In 1847 he married a lady, who, in after-life, proved in every way congenial; but of the three children which resulted from the marriage, only his son Felix has survived. The great epidemic of cholera which visited from appearance as an author. He maintained the riew that cholera was primarily an inflammation of the intestinal mucous memans, and recommended a corresponding autiphlogistic treatment, as by cold applications and calomel, which, when resorted early, furnished favourable results.

to carly, furnished favourable results.

In 1833, one of his strongest wishes was falfilled by his having the direction of the Medical Division of the Magdeburg Town Hospital confided to him. The manner in which he conducted this, and how the results of his observations were been succeeded by the Kinished Mithelanger, published in 1835, which gives by his Kinished Mithelanger, published in 1835, which gives have been reproduced to the reproduction, and that original and fertile apprehension of observation, and that original and fertile apprehension of interapeutical problems that at a later priod rendered his clinical teaching so attractive. Attention had been for some a vacancy in the Medical Faculty of Greifswald furnished the a vacancy in the Medical Faculty of Greifswald furnished when a vacancy in the Medical Faculty of Greifswald furnished when a vacancy in the Medical Faculty of Greifswald furnished when a vacancy in the Medical Faculty of Greifswald furnished the same of the Medical Clinic and the Stage which he himself regarded as his true vocational action, and the Provincial Lunatic Asylum. He infused into this Clinic a new and laborious life, which all those who officiated as his assistants or as observers remember with great satisfaction. Insulation and all provided as was the old Hospital until 1850, which which has all the production of the Medical Clinic and the wisely calling in the Polyclinic to his aid, was able to carry on this teaching in the most instructive and interesting manner. His great practical experience here proved of mach service, imparting to his lectures an unusual Treshease, and banishing the dry doctrinarism, which in all its profundity so tired out imparting to his lectures an unusual freshease, and banishing the dry doctrinarism, which his all its profundity so tired out imparting to his lectures an unusual freshease, and banishing the dry doctrinarism, which has all its profundity so tired out and repelled the student. From sever case he learnt while he any error in diagno

Therapic." Of this book, which was destined to exert so remarkable an influence on Medical views, the first edition appeared in 1858. Its success was complete, for even during the first year several re-issues were called for.

next year severa re-besses were caused to forinstance of the property of the property of the folial faculty to whose rapid prosperity and especially the Medical Faculty to whose rapid prosperity he had so mush contributed. Faculty to whose rapid prosperity he had so mush contributed, parted with him very unwillingly, and great was the grief of the students, to whom he had endeared himself not only by his great teaching powers, but also by his genial personal intercourse with them, entirely free from any academical pedantry, the first property of the property of th

Niemeyer's scientificeminenow was acknowledged by numerous learned bodies, who received him among their ordinary or corresponding members. His "Lehrbuch," the eighth edition of which he completed just before setting out for France, has not only continued in increasing demand among German Practitioners, but has met with the fullest recognition abroad, as witnessed by its translation into most living languages. His electures on Pulmonary Consumption, edited by Dr. Ott, also have been translated into French, English, and Dutch. Besides have been translated into French, English, and Dutch. Besides have been translated into French, English, and Dutch. Besides have been translated into French, English, and Dutch. Besides have been translated. The property of the proposed of the Academical Meningtis, some lectures on Popular Medicine, an essay on the Banting. The number of the Academical dissertations produced by Niemeyer's pupils at his instigation are remarkable, not less than thirty of these appearing during the years 1862-70, and several of them being of considerable excellence.

Executence.

It is evident that there was plenty of work going on at It is evidence; and when we consider that Niemeyer had many Tubingen; and when we consider that Niemeyer had many Tubingen; and attento to the finite of the Tuyeristy and Reality; that he had duties to fulfill as Court Physician, as well as those which attached to an extensive consulting practice, consuming a great deal of time; and that a new edition of his "Lehrbuch" was called for almost every second year, we are lost in astonishment at the power for work which he exhibited. This incessant activity continued from earliest morning till late in the evening—indeed, caused some measiness to his vivacity and rectileasuses, which, without being exactly morbid, yet conveyed to unbiased observers the impression of exhaustion. Indeed, Niemeyer himself felt that his bodily powers would not long hold out, for he repeatedly expressed the opinion that he should not reach old age. Of late years he sought and found the restoration of his strength in a charming country residence which he possessed. He passed his vacations there in the chase, and convivialities. Such pauses of repose, however, only continued a few weeks, so that the favourable influence of rest of body and mind did not prove durable. An unappossable craving for work rendered longer inactivity insupportable. At the very least, he must visit his Hospital from time to time, see some interesting case, or speed the morning with his books. Above all things, Niemeyer was anxious to secure the greater his nature of the provent of the continued of the provent of the continued of the provent of the prov

Niemeyer's "Lehrbuch"-of its kind, and within the limits which its author assigned to it—seems a masterpiece. In spite of its limited extent, the immense mass of material is dealt with with a completeness, lucidity, and objectivity which leave nothing to be desired. An exhaustive treatise, embracing all that is worthy of being known in clinical Medicine, Niemeyer never had the pretension of including within the narrow limits

of a "Lehrbuch.

of a "Learoucia".

Niemeyer is especially prominent in his delineation of portraits of diseases as derived from nature. The figures of disease stand ont, if we may so express it, in their plastic form, and impress the mind of the student far more forcibly than the most exhaustive enumeration of the symptoms of the affection. Having at his hand all the facts which have been furnished by the rapid progress of physiology and pathological anatomy and chemistry, he endeavours in a happy manner to furnish a better comprehension of the symptoms, and to explain how these become developed by the pathological processes going on in the economy. Not less fortunate is he in his efforts to impart more precision to therapentical indications, and to analyse the operations of approved means and methods of treatment.

That this search for clearness and comprehension leads him frequently beyond the limits of ascertained fact, and within those of hypothesis, cannot be denied, but we cannot still but re-gard his efforts in this direction as happy and most praiseworthy. On him was conferred the gift of discovering with ease and On him was conserred the gut or discovering with case and pointing ont with precision where lay the germinal points of a scientific problem, and he possessed the power of bringing out clearly and formularising exactly ideas and observations which may have lain conscionsly or unconsciously in the minds of many observers. Many of his conclusions seem so simple and so obvious, and yet no one had ever arrived at them. Finally, we are indebted to Niemeyer for a large number of important are indebted to Niemeyer for a large number of important clinical facts, especially in the province of therapeutics, which have been derived from the investigations conducted in his Clinic, as also for a great abundance of suggestive ideas and arguments. The style of the work is throughout very orpressive, highly, and often even striking (micate), and the orpressive in the contraction of the contraction of the manuals acts most Theorem of the contraction of the manuals acts most Take it all any all, we may say that the book has not its, like Take it all and all, we may say that the book has not its like in Medical literature. For the Practitioner its perusal is at once a pleasure and a necessity; and for both young and old, for the newly-started Doctor as well as for the cld-established Practitioner, it proves an enduring source of instruction as well as of inducement to resort to their own powers of thought,

observation, and study.

Niemeyer's clinical lectures were just as instructive and stimulating. At bottom he liked not those brilliant discourses which may as well be delivered in the lecture-theatre as at the bedside, but much preferred the thorough examination and explanation of particular cases. While the preparation of his "Lehrbuch" necessitated his generalising his descriptions of diseases, and briefly to treat of their various deviations from diseases, and briefly to treat of their various deviations from their ordinary course, we he had it of the highest importance to individualise his clinical teaching, so as to draw his pupils attention to the peculiarities of every case which came before them. He carried this principle out, not only in relation to the symptomatic and diagnostic point of view, but with the symptomatic and diagnostic point of view, but with Niemeyer's pupils posities; and this is one of the reasons why Niemeyer's pupils positioners. But a weekled of a thaking but as auto-conful Practitioners. but as successful Practitioners. His method of teaching, indeed, was eminently practical and instructive, and his Clinic proved, for the greater number of the students, highly capti-vating and suggestive. He was, moreover, known to them not only as their teacher, but as their sympathising friend. How many of them has he encouraged to industrious labour and the higher aspirations; how many has he assisted with material aid; and how many of those who seemed lost in the indolence and aluggishness of the students' dolce far niente has he rescued, by interposing at the right time, and incited them to energetic exertion. Finally, regarding Niemeyer for an instant as a practical Physician, we find his reputation spread far and wide, founded as it was noon a full trust alike in his diagnostical wine, rounded as it was noon a run; trust make it in managements penetration and his successful therapeutical applications. At the bedside the amiable and humane aspects of his disposition became prominent. Untiling in his efforts for the benefit of his patients, he knew well at the right time how to resort to his patients, he knew well at the right time how to resort to earnest encouragement or humorous jocularity. Poor and rich were alike welcome to him, and hence it was that he was received in every circle with honour and gratitude, and his name was one of the most popular throughout Wurtemburg, as, indeed, was amply testified by the impression which the news of his death produced.

Niemeyer was what he only aspired to be—a clinical teacher in the right sense of the word. By his ability and industry he advanced his science; employing both word and pen he has exercised a preponderating influence in the formation of able and reflecting Practitioners both at home and abroad. His name is indissolubly connected with the revival of clinical teaching of the last ten years; and the History of Medicine, which deals impartially, will, we feel certain, assign him a honourable place by the side of Sydenham, Boerhaave, Van. Swieten, and Peter Frank.

MR. C. MACNAMARA'S LETTER TO MR. SIMON ON CHOLERA IN INDIA.

MR. C. MACNAMARA, of the Indian Medical Service, whose recent work on cholera is favourably known in this country, appears to have come to the conclusion that his views on that sease have not received from the authorities in India the recognition and attention to which he considers them to be entitled. Finding that it is useless for him or anyone holding entitled. Finding that it is useries for him or anyone moving the same ideas regarding the propagation of cholera to expect a hearing from the local authorities, or to influence their action in the adoption of means for tracing the rise and progress of cholera epidemics in India and limiting their ravages in that country, he has appealed unto Cesar in a letter addressed to Mr. Simon, the Medical Officer of the Privy Council, in the hope that the information at his command may Council, in the cope that are mormation at his command may be of use in, at least, preventing the extension of cholera from India to Europe. He observes that, with the knowledge of the fact that previous epidemics of cholera in Europe had been preceded by outbursts of the disease in Calcutta during the cold season, in which ordinarily it has been observed to be less cour season; in waren outstandy re man occur onese rear or be been probable that Mr. Simon, had he been informed of its exceptional virulence in Calcutta during the early months of 1866, when pilgrims were leaving that port for Mocca, would have taken precautions to prevent the disease being imported from India to Mecca, or, at any rate, presuming it would break out in that place, would have prevented its being carried by

pilgrims over Europe.
It is the firm conviction of Mr. Macnamara that, with the differences of opinion on the subject of cholera, and the want of forethought on the part of those whose duty it is to regulate such matters, any number of vessels, carrying either pilgrims or other human freight or merchandise contaminate eholera poison, might at any time proceed from Calcutta, not only to Arabia, but directly to Europe. And that, if the anthorities in India hold with Mr. Strachey, that cholera spreads in a mysterious roundabont way from certain points-it may be by the wind or any other agency—it is out of the question to expect regulations to be enacted for the purpose of preventing the spread of the disease by vessels or other means of human intercourse. It seems to him, therefore, that Mr. Simon's influence is urgently called for, to regulate through the Home Government matters of this kind, for the preserva-

tion of this country from the approach of cholera from India. Mr. Macnamara further remonstrates against the number, and unnecessarily voluminous nature, of the reports on cholera from the several branches into which the Indian Medical Service has been divided, in supersession of the head of that Service mas ecent universe, in supervision or the ness of tasks department in India.

India in the control of the control of the supervision of the latery to toil through a mass of reports absolutely overwhelming. The toil through a mass of reports absolutely overwhelming. The aggregate weight of those issued by the nowly-created sanitary department alone in Bengal, exclusive of gaol reports and those of the Indian Medical Department, dispensaries, etc., and those of the Indian medical Department, dispensaries, etc., amounted to thirteen pounds, whereas the Army Medical Department Report for 1868, containing the sanitary, statistical, and Medical history of the British Army in India and every other part of the world, weighs only one and three-quarter pounds. The reports from Madras and Bombay would probably furnish as much more material to be laboured through. Mr. Macnamara therefore maintains that these reports should all be correlated and condensed a thousandfold in a single office before being published, and that, being systematically arranged, they would then become useful, not only as works of reference in India, but for the rest of the world.

Having already ourselves nttered opinions very much to the same effect, we shall now only express the hope that the hint may be taken, and that future reports from India may be in a con-densed form, more suitable for readers in this country, who, with only a limited amount of time at their disposal, are deterred by the bulk of the volumes from devoting to them the study necessary for the extraction of the really valuable information which many of them contain.

Mr. Msenamara gives a table comparing the number of death from toblers in Calcuta from 1865 to 1860, before the establishment of the waterworks—opened in January, 1870—with the mortality from the same cause during that year. It is very satisfactory to remark that the latter is less than in any previous twelve months, and it is still more encouraging that during the cold season the number of deaths has not undergone any increase—fact which angurs well for the prevent year. But Mr. Macnaman warns as against specially the still of the season occur in future, as, with the exception of the improved waterworks and drainage, the circumstances of the disease were very similar in 1867, and yet the number of deaths from cholera in 1868 was remarkably large. Doubtless, the waterworks must have exerted a beneficial influence; but, as Mr. Macnamara observes, he would be a bold man who would assert that this was the immediate cause of the immunity from cholers in Calcutta in 1870, when we know that the greatest hat year years a season of the control of the control of the control of the immunity from cholers in Calcutta in 1870, when we know that the greatest during that year year low.

that year was low.

The whole of Cauce-half of the two was perfectly chained.

The whole of Cauce-half of the two was perfectly chained, the other half being as year to the was perfectly chained, the other half being as year to be diminished by the improvements already effected, or must be diminished by the improvements already effected, or must be drainage works be extended into the still neglected parts of the city, before any permanent benefit will be observed, are questions of great interest to be decided by consistently following any the subject—a work which Mr. Macnamara suggests may be accomplished by Mr. Simon exciting the intelligent interest of the Home tovernment in the matter, but which is too exact and advantages of a systematic record of the mortality from cholera in Calcutta are so obvious, that Mr. Macnamara's suggestion, that any action on the part of Mr. Simon or of the Home Government can be necessary to ensure its being effected, appears to us rather the idea of an enthasiast who cannot brook delay in the reception of his own views than the calm opinion of an unprejudiced observer.

Mr. Macnamara appends to his letter a diagram indicating the daily number of deaths from cholera in Calcutta during the dive years from 1866 till 1870, the rainfall, and the rise and fall of the subsoil water; and in separate tables he gives the number of deaths from cholera, and the meteorological observations on each day of the year. He can trace no definite observations on each day of the year. He can trace no definite cholera and the rise and fall of the subsoil water in Calcutta. It appears from the observations of Dr. Fawcus that the rise and fall of the subsoil water in one of the wells of the Alipore good were not connected with the rainfall, but corresponded with the level of the water in the neighbouring canal; that the neap titles. The same rin this well cose, and it foll with the neap titles. The same rin this well cose, and it foll with the neap titles. The same rin this well cose, and it foll with the neap titles. The same rin this well cose, and it foll with the neap titles. The same rin this well cose, and it foll with the neap titles. The same rin this well cose, and it foll with the subsoil high and low tide as indicating the rise and fall of the subsoil

water.

Mr. Macnamara has not observed, after a careful study of
the meteorological tables, any constant meteorological conditions to account for the remarkable rise and fall in the
number of deaths from cholera. With reference to the influence of the rainfall, Mr. Macnamara considers his former convictions to be strengthened by the facts brought out in the returns
to be strengthened by the facts brought out in the returns
of the rainfall, Mr. Macnamara considers his former convictions to be strengthened by the facts brought out in the returns
of the results of cholera, being washed into
the data and wells, and hone introduced into the system
of persons drinking the water so polluted; while, on the other
hand, a tremendous rainfall might wash away all cholera
matter into the river, and thus well-nigh stamp out the
disease for the time being. On Jnne 9, 1869, there was
such a rainfall, amounting to eleven inches; the deaths from
cholera were rather numerous at the time, and continued so—
"probably among persons affected before the 6th."—till the
cholera were rather numerous at the time, and continued so—
"probably among remarkable dimination, which continued
till the end leve was a remarkable dimination, which continued
till the end leve was a remarkable dimination, which continued
till the end server of rain of August 12, 1868, was followed
by an immediate increase in the mortality from cholera. Such
facts appear to us to invalidate one another as to the influence
of rain. In the first instance, a period of incubation of at
least eight or nine days is assumed to account for the decrease
of mortality not following inmediately on the heavy rainfalls;

and, in the second, no incubative period—or a very short one—appears to have been passed through before the development of the disease and consequent increase of mortality.

of the disease and consequent increase of mortality.

Mr. Macnamara, at the same time, publishes an extract from a letter addressed by him, on July 7, 1870, to the Inspector, and the proper of the property of the property

We have thus noticed, at considerable length, Mr. Macmanari's letter, as there is much in it which will interest our readers, and of which we entirely approve. We regret to sdd that we cannot so fully approve of the tone of personal irritation which pervades it. Mr. Macmanara appears to us not to have been well advised in addressing to a member of a home department such stringent observations on the proceedings of a Government of which he is himself a servant.

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

Now Cases of Small-poz occurring in the Public Practice of the

			_	No	of C	ascs v	reek e	nding	10,000
Districts.			April 22.	April 29.	May 6.	May 13.	May 20.	May \$7.	
WEST-		_							14/00
Chelsea			9	9	4	16	7	P	
	lanove	r.	10	23		1			10
St. James, Westn			19	23	14	11	9	- 3	4
Paddington .			24	12	20	24	16	1.8	- 1
North-		•	24	12	20	24	10	1	175.79
St. Pancras .			121	894	104	101	117	116	-11
Islington	•		67	59	64	69	42	-80	- 29
Hackney			46	30	1	18	28	17	-1
City of London			14	13	5	13			
St. Giles-in-the-	Fields	i	2	14	5	6			
Holborn		ú	8	9	6	13	10		0.8
St. Luke's . East—	٠		17	25	12	13	17		12
Whitechapel .			17	23	7	4	23	13	D - 100
Poplar		•	1	1	1	9	11	14	6
St. Mary, Newing	ton		37	47	28	28	29	30	24
St. Olave, Southw	rark		3	5	3	2	2	5	2
St. George-the-	Marty	r,			1	1		DR.15	Militing.
Southwark .			31	26	. 8	28		9.	Series !
Lambeth			1	32	20			PT.	1
Clapham			23	32	29	13	16		
Wandsworth .			6	8	4	4		5	3
Streatham .			2	. 9	1 F	1 8	1	2	11/2
Camberwell .			1	1	1 2	1		- 1	
Greenwich .			. 5	-	1	9	12		
Plumstead .			3	3		6	6	. 5	9 -

· Return imperfect.

VACCINATION. THE Select Committee appointed to inquire into the operation of the Vaccination Act (1867), and to report whether such Act should be amended, have considered the matter referred to them, and have agreed on the following Report :-

Eight attiting of your Committee have been occupied in bearing the visioner of provine who ascert that vancination is univolven at injurious, and who therefore object to its enforcement and encouragement by the lather. After carvini consideration of this evidence, and of Medical and one of Medical and one of the consideration of this evidence and of Medical and the That the cow your affords, if not an alsowite, yet a very great protection against an attack of small-pox, and an almost aboutle protection against an attack of small-pox, and an almost aboutle protection against an attack of small-pox, and an almost aboutle protection against an attack.

that disease

th from That if the operation be performed with due regard to the health of the person vaccinated, and with proper pre-cautions in obtaining and using the vaccine lymph, there need be no apprehension that vaccination will injure

person reschators, and with proper prevaments in occasions and using the shealth, or communicate any discovery personates that two-constant will injure health, or communicate any discovery.

That small-pox, unchecked by vaccination, is one of the most terviled and destructive of discaves, as regards the danger of infection, the pressure of the state of t early in life

early in life."

Application of the evidence in favour of association, the prevalence of the Application of the Committee of the Committee of the Committee, however, believe that, on the one hand, if vaccinate them had not been pearent, this epidensic neight have become a petrolicate unique these becomes a petrolicate of the committee of the co

sakes and that of the community, to prevent their catching and spreading

disease. There are three classes of children who being, by the conduct of their There are three classes of children who being, by the conduct of their control of their classes of the children and the control of infection to others — I. There are the children control of infection to others — I. There are the children of barrened who, while not denying their duty or desiring to disregard it, of parents who, while not denying their duty or desiring to disregard it, to protect their children until disret to the vaccies station by the pane fear of an epidemic. 3. There are the children of those parents, very few in proportion to the whole population, who assert that vaccination will do

feat of an epidemice. 3. There are the children of those passents, very feat in proportion to the whole population, who assert that varcination will do myophron to the whole population, who assert that varcination will do With regard to the first and second of these classes, there can hardly be provided in the proportion of the principle of a compulsory law, though there may be provided difficulties in its spills and the deline with the third class, which is the contract of the deline of

the state child.

It has been suggested that the parent's declaration of belief that vaclit has been suggested that the parent's declaration of belief that vacmittee believe that if the law sever thus changed it would be the parent deter. Prosecutions would soon coaes, and the children of the many electronic coaes, the children of the many children of the few opposents of vaccination, unraccinated, as well as the children of the few opposents of vaccination.

Your Committee are glad to find that wherever the guardiane endeavour Your Committee are glad to find that wherever the guardiane endeavour enforced; but there are some amendments by which they think the Ac-eferred to them might be much more efficient. gapping an officer to pro-mote vaccination, and to prosecute previous officialities against the Act; and it appears that in the majority of the unions such officers have been it appears that in the majority of the unions such officers have been it appears that in the majority of the unions such officers have been the parentine.

They are also strongly of opinion that the registration of secionation should be simplified; that the vaccination officer should keep the vaccination register, and therefore that the certificates under the Act should be interested by the certificates under the Act should be found to register, and therefore that the certificates under the Act should be form a monthly return of latthe and of the infants that have desirable into a monthly return of latthe and of the infants that have desirable proportion of the voted by Parliament. Your Committee believe that efficient working would be premoted by such contribution. Without doult, local agency are also needed, and would be much more powerful if a payment towards the expense could be withdrawn in case of mainfanistration. Significant contributions with the contribution of the contribution of the subject of their inquiry. Which, such as exists in Sociation and Ireland, is needed, as the non-registered claiking are those most likely to easie the notice of the vaccination see in the present division of analizar responsibility between the departments of the Government. The Medical report of the proposition of the vaccination of every union, guardians, which arrangements are then approved or disapproved by the Tail and the state of the proposition of the vaccination of the vaccina

NEW BOOKS, WITH SHORT CRITIQUES.

Sui Restringimenti Laryngei Monografia. Del Dottor Ferdi-nando Masser, Specialista per la Malattie di Gola, Medico-Straordinario nell' Ospedale Muliebra di S. Eligio. Napoli, 1871.

Monograph on Narrowings or Constrictions (Stenoses) of the Larynz. By Dr. Ferdinand Massel, Specialist for Diseases of the Throat, etc. Pp. 62.

. * Dr. Masser's monograph, which is gracefully dedicated to his "Teachers in the Laryngoscopic Art" in Paris, London, and Berlin, "i Professori," C. Fauvel, Morell-Mackenzie, and L. Waldenburg, contains a concise but fairly full description of the many diseases and accidents that may produce a narrowing of the laryngeal aperture and chamber, with their marrowing of the laryngeal aperture and chamber, with their diagnosis and treatment, and he modestly hopes that his pamphlet may at least tend to make more fully appreciated "a means of diagnosis which ought now to be familiar to every Medical man—viz., laryngoscopy." First, he treats of the pathological asatomy of his subject, speaking ancessively of seats of which, he states, are—let, the vocal cords (especially the anterior two-thirds); 2nd, the epiglottis; 3rd, the borders of the ventricle of Morgagni; 4th, the cavity of this vontricle; 5th, the ary-epiglottican ligraments; 6th, rarely, the nytemoidel; and, lastly, the inferior surbane; (3), hony and cartifacinous tumours; (4), syphillite neoplasms. II. Neuroses, paralyses of the abductor muscles of the vocal cords, laryngismus stridulus. Then he describes neoplasms. II. Neuroses, paralyses of the abductor museus of the vocal cords, laryngismus stridulus. Then be describes acute laryngitis, abscess, inflammatory hypertrophy of the sub-macous membrane, hypertrophy of the vocal cords, croup, sub-macous membrane, hypertrophy of the vocal cords, croup, cicatriese, adhesions, wounds, fractures, and foreign budies. And he alludes to other canses of partial or total occlusion of the larynx, such as retro-pharyngeal abscess, and falling-back of the tongue. Then he treats of the etiology of these affections; their symptoms and course, diagnosis, prognosis, and treat-ment; finally, he gives several cases with illustrations. The author shows himself well acquisited with He Hierature of his cultiple, as well as with its clinical history and treatment, and it willing the first to know that it are used in prod that or be travelling in Italy to know that in case of need they can find in Naples so competent and accomplished a Specialista per la malattie di Gola as Dr. Massei. In conclusion, however, we must remonstrate with the author for having sent forth his valuable little work without either table of contents or index.

Tarasp and its Mineral Waters. By the Rev. N. B. WHITEY. . This is a concise and interesting account of the virtues of the mineral waters at Tarasp. The editor has embodied a reprint of Dr. J. Burney Yeo's article on "Tarasp in the Lower Engadine," which appeared in this journal on April 23 last.

THE Goldsmiths' Company has sent a donation of £50 to the City Dispensary.

GENERAL CORRESPONDENCE.

BRITISH MEDICAL ASSOCIATION. LETTER FROM DR. A. P. STEWART.

To the Bilitor of the Medical Times and Gasette.

Str.,—Your article of last week, with its implied censure of the British Medical Association and its express reference to the Metropolitan Counties Branch, of which I am and have for some time been one of the secretaries, seems to demand from some some explanations, for which, I feel sure, your sense for fairness will secure immediate insertion in your columns. As expands the document which has prompted your comments, and the subject of which it treats, I will only say that to make any upbra single member of a committee, and beaded "Confidential For the use of the Committee of Council only," appears to me, for the use of the Committee of Council only," appears to me,

to say the least, somewhat unusual.

But the metropolitan branch, it seems "undeathedly overshalows and leads the rest of the Association." Pardon metshalows and leads the rest of the Association." Pardon metdoubting this statement, which, indeed, has no facts to support
it. The metropolitan branch is not even the most numerous in
the Association; for, sithough nearly all the most eminent Practitioners in and around Loudon belong to the Association, I
the Association is provided by the Association, I
chiefly to questions of public Medicine, and is happy to still, so
far as it can, the Association and its Parliamentary committee
in the management of its ordinary Parliamentary positions.
The business of the Association, again, is conducted almost extended to the Association and the Parliamentary business.
The business of the Association, again, is conducted almost exdifficult by multiple and the Association and the Association and the Association
of local secretaries, elected by the suffrages of the members of
each branch; of presidents, past and present, who have been
selected annually by the Partitioners of each neighbourhood
in which the Association has held its annual meetings; and of
new the Association has held its annual meetings; and of
the More and the Association has held its annual meetings; and of
the Council from smoogh thready elected by all members of the branch presentative body
freely elected by all members of the branches electron, bear no
reasonblance to that of the College of Surgeous, or of any of
the Corporations, but is based upon the most popular form of
manched suffings that could be devised.

manhood suffrage that could be devised.

One word more; there can be as little doubt of the growing influence as of the increasing numbers of the Association. Let me point to the Boyal Sanitary Commission, the appointment of which was confessedly due in great measure to its efforts, which are about again to be put forth in reference to efforts, which are about again to be put forth in reference to the contract of the contract

Medical Reform Committee of the Association have not pressed forward their measure this session, it is because they have been advised to avoid coming into public collision with gentlemenwho have adopted the cause or anosters, and have assumed antenable positions, which the Association could not support, but would not incur the public seandal of combatting. They will shun that scandal, and leave with those to whom, it belongs the malicialed responsibility of the needless delay. Every Bill which has affected Medical interests has received the attention of the Parliamentary Committee, and their intervention in respect of several of them has been attended with beneficial results.

If with this organisation the members are enabled by a yearly subscription of a guinea to receive a journal which publishes weekly the proceedings of their branches and committees, explains and assists the policy of the Association and its executive, and, at the same time, as you gracefully state, anawers the purpose of an ordinary weekly Medical journal of acknowledged excellence," it is not wonderful that they should be contented for the present and hopeful for the future; that new branches are in process of formation; that the Association of the Association of the Association of the Present year. I am, &c., A. P. Stewart. Grosvenor-street. May 30.

• The memorandum referred to by Dr. Stewart was sent to usin the ordinary course by a correspondent, who invited our comment as the readiest mode of reforming crils which be complained of. Amongst those cvils was the absorption of the provincial Association into a London publishing firm, which also would willingly direct the course of Medical

politics, and get the control of the Profession.

LOUISE LATEAU.

LETTER FROM DR. F. A. HARTSEN.

To the Elitor of the Medical Times and Guartics,

Srs.—In Maconillar's Magazine for April last, Dr. E. Day has
published a most interesting paper upon the investigations
made by Professor Lefebrre, of Louvain, upon the subjects
for Louise Lateau the stigmatistic, which has created so great a
sensation in Belgium.

I crave a place in your columns to recommend the perusal of the original publication of Dr. Lefebvre, which I consider a masterpiece of sagacity, crudition, and eloquence.(a) It contains, besides, some valuable remarks upon measureism, spiritualism, and similar subjects, and deserves to be read by those over who are sequainted with the resume of Dr. Day.

May 27. I am, &c., F. A. HAETSEN.

VAPOROUS ANÆSTHETICS, LETTER FROM MR. J. T. CLOVER.

To the Editor of the Medical Times and Gasette.)

Sra.—In the Medical Times and Gastite of May 13, Mr. Lewis
Thompson called attention to the variability in strength of
vaporous answistetics, arising from the variations in the temperature of the air and in atmospheric pressure. He rightly to
beserves that the inhalation of any given amesthetic might be
safe with the thermometer at 60° and barometer at thirty-one
at twenty-min inches.

As chloroform ether, etc., are usually administered, there is a further variability with the temperature of the chloroform, which is diminished by its evaporation, and increased by the warmth of the hand, and by the patient's face and breath.

which is diminished by its evaporation, and increased by its warmth of the hand, and by the patient is face and breath. It do briste these objections, I contrived an apparatus by administered. I exhibited this apparatus is laded for may be administered. I exhibited this apparatus is laded of the contribution of 1862, and have used it in some thousands of cases without a fatal result.

I find that three and a quarter minims of colloroform per 100 inches of air is the best proportion to use. I usually takes four or five minutes to render a patient perfectly quiet and fit for a severe operation. The time varies according to the freedom with which the patient breathes. I have tried stronger mixtures of chloroform and air, and am certain that the tendency to the production of each by exprope increases with

(a) "Louise Lateau, de Bois d'Haine: sa Vie, ses Extases, ses Stigmates." Par le Dr. F. Lefebvre, Louvain. Ches Ch. Peters, Editeur.

June 3, 1871. 647

the proportion of chloroform to the air. But whatever the mode by which death is threatened, there can be no doubt that a patient with three and a quarter per cent. of chloroform in his lungs at the time of alarm has a much better chance of ms range at the time of starm has a much better chance of being saved than one who has twice or thrice that amount, which is not impossible in a hot room when chloroform is first poured on a handkerchief.

Bichloride of methylene (so-called) is a mixture of chloroform with a lighter body, and there is the same objection to its use as to the mixtures of ether and chloroform—viz., that the components do not evaporate equally. A bottle of "bichloride of methylene," if left uncorked, or badly stoppered, loses a large proportion of the lighter substance, and what remains is less safe than the original mixture. I have found this "bichloride of methylene" act very nicely for short operations. It certainly does produce sickness when the administration is prolonged. I am disposed to think that its reputation for not producing sickness depends on its having been hitherto principally used for short operations. I am, &c., J. T. CLOVER.

3, Cavendish-place, Cavendish-square, W., May 30.

BIRMINGHAM HOSPITAL FOR WOMEN. LETTER FROM MR. ARTHUR CHAMBERLAIN.

[To the Editor of the Medical Times and Gazette.] Su,—In To be solitor of the Medical Times and disastic.

Su,—In The Superior Control of the Medical Control of the Work of the Control of the Medical Control of the Medical Control Physician at the Guerral Hospital, and Dr. Fleming, Senior Physician at the Queen's Hospital, Consulting Physicians; Professor Berry and Furneaux Jordan, Esq.. Consulting Surgeons. There are vascancies for the office of acting Surgeons. geons. Candidates must possess both a Medical and a Surgical degree or diploma, and must send in to me their applications, together with their diplomas and degrees, on or before June 26

In spite of the inspired paragraphs that appeared in some of the London Medical organs, it is now certain that a muchneeded and most useful charity will be shortly opened in Birmingham with the sanction and support of the highest Medical authorities in the town. I am &c.,

ARTHUR CHAMBERLAIN, Hon. Sec.

Elm House, Arthur-road, Edgbaston, May 29.

REPORTS OF SOCIETIES.

THE PATHOLOGICAL SOCIETY. TUESDAY, MAY 16, 1871.

J. COOPER FORSTER, F.R.S., Vice-President, in the Chair.

The Committee (which consisted of Dr. William Marcet, Dr. Sannel Wilks, Dr. T. S. Bristowe, Dr. J. Andrew, and Dr. W. Howship Dickinson) appointed to consider the subject of lardaceous or amyloid disease reported as follows:-

"The Committee, in presenting their report, think it right to state that it comprises the fruit of much time, labour, and expense. The analyses by Dr. Marcet, whose report is appended, show that the organs which have been examined as presenting the alterations in question are considerably deficient in potash and phosphoric acid, while they contain an increase the contain and contain an increase the co of soda, chlorine, and chelesterine. Where the tissue is extensively affected, it is rendered much less soluble in water than in its normal condition, the insoluble portion, which is nitrogeneus, being readily soluble in potash. When iodine is brought into contact with the affected structure it enters into combination with a peculiar nitrogenous substance, by which the tissue is pervaded, and produces the reddish-brown reaction familiarly recognised as the test of the morbid change. When the lardaceous change is incomplete, the nitrogenous material which gives the reaction can be extracted by water. Both the iodine reaction and the substance to which it is due have been carefully investigated, together with the relationship existing between this substance and a solution of fibrin in dilute hydrochloric acid. In reference to the name which should be applied to this morbid condition, the Committee, after due deliberation, suggest that the term lardaceous should be adopted by the Society. This term, they believe, is widely used and well understood in the sense to which they desire to restrict it, but they, nevertheless, think it proper to insist that the word be

explicitly limited to organs so altered as to present the chemical characteristics described in the report, the most obvious of which is the reddish-brown reaction with iodine."

Drs. MURCHISON and BASTIAN reported on Dr. Sutton's case Drs. Muncuison and Bartiar reported on Dr. Sutton's case of supposed Small-pax in the Fotus. There were marks of successive eruptions in the infant; there was no history that the mother ever had small-pax; and, is short, they could not confirm the opinion as to the nature of the disease. Dr. Gausz, reporting on Mr. Morris's specimen of Tumour of the Fibula, confirmed the statement as to the nature of the mour—File. a round-culfed sereoms.

tumour—viz., a round-celled sarroma.

Dr. Bristowe reported on Dr. Dickinson's specimen of Tumour of the Mesenteric Glands. The mass consisted of fibrous tissue and fat, with cartilage and bone. Its cysts con-

fibrous tissue and fat, with cartilage and bone. Its cysis contained mucus, and were lined with ciliated epithelium. It can be a supported by the confirment of the property of the confirment of the report handed in. Dr. Bistrows also read a report on Dr. Tilbury Fox's specimen of Madura Foot. He found the foreign matter fungoid, thus confirming Dr. Carter's opinion.

Dr. Tilbury Fox said that in a former specimen examined no trace of fungus could be found.

Ms. Hurge confirmed the report made by Mr. West as to the nature of a Tumour of the Upper Jaw he had exhibited. Dr. Cituzen, in reporting on Mr. Spencer Watson's specimen of Epithelioma of the Check with Cysts, confirmed the account

given of it. Dr. CAYLEY reported on Mr. T. Smith's Tumour of the

Mrnma. Some portion were scirrbon when serious of the Manma. Some portion were scirrbon. Mr. Arnorr read a report on Dr. Whipham's specimen of Columnar Epithelioma of the Liver. This account of the structure he confirmed. It was, however, mixed up with

ordinary cancer.
Dr. Marcer then gave some account of the Chemical Reactions of Amyloid or Lardaceous Material. The body was colloidal, and highly nitrogenised. It existed in fatty as well as in

amyloid disease

Mr. Gay exhibited Tumours removed from the buttock of a woman for the second and third times. At first the tumour seemed myxomatous, but on the third recurrence is was plainly fibroid, with some myxomatous structure. The last time of removal it was found invading the surrounding tissues.

Dr. Bristowe exhibited two specimens of Malignant Tumour of the (Esophagus. One was from a woman, aged 48, who had of the Usophagus. One was from a woman, aged 48, who had been ill twelve months. She complained first of dysphagia, then lumps came in her neck. These ulcerated, and the fauces were laid open. She could not swallow, and died exhausted. were laid open. Sie could not swallow, and died exhausted. The lungs and glotis were alightly affected. The other occurred of the state of the state of the state of dyspaces. The left vocal cord was paralyzed. He died from the discase opening the left common carotid. It was found that an opening existed between the tracken and the cosophagus. This was not discovered during life, owing to the presence of a tube in the resophagus for feeding.

Mr. W. ADAMS showed a Fibroid Tumour from the Hard Palate, which had projected into the mouth and impeded the jaws. The patient was a female, aged 40, and the tumour had existed for six years. It was supposed to be an exostosis, but came away easily with the gouge. There were no myeloid

bodies in the tumour.

Mr. MAUNDER exhibited a specimen of Axillary Aneurism the first part of the vessel. The subclavian was tied in the in the first part of the vessel. The subclavian was tied in the third part of its course, but the patient died on the eighth day after the operation. He had tied the vessel after Lister's method, yet there was much pus in the neighbourhood of the wound. There had been a double bruit over the innouthants. The angurism was filled with clot.

Dr. RISDON BENNETT showed a specimen of Intra-thoracic Growth from a female, aged 17. She had been rather delicate, and twelve months ago began to cough with some expectoration and shortness of breath. The chest was dull in front and the spleen enlarged. She died exhausted, when it was found that the lungs contained peculiar deposits. These had been exathe image contained peculiar deposits. I need had been exa-mined by Dr. Sutton, who reported on them. There was a large growth in front of the pericardium, apparently rising from or in the site of the thymns. It attacked the pericardium. the lungs at their sides, and surrounded the traches. The glands were cularged throughout the body, and there were gianus were cuarged throughout the body, and there were deposits in the liver and kidney as well as in the spleen. The structure of these masses was lymphoid. The masses in the lung were similar. He had seen a similar case in the Loucon Hospital.

(To be continued.)

MEDICAL SOCIETY OF LONDON MONDAY, APRIL 3.

DR. ANDREW CLARK, President, in the Chair.

Dr. Betnyon narrated Anomalous Cases occurring in his practice—small-pox following measles, small-pox following scarlatins, and scarlatins, following variedla. The first case was that of a woman in the sixth month of her second pregnancy. On March 13 she experienced a rigor, became feverals, and "out of sorts." Two days after the author saw her a reddish rash had appeared on the forehead, limbs, and abdomen, where the rash was confluent, punctated, and slightly papular. The eruption of measles then became distinct, but in the course of three days became fainter; and, in addition, the cruption of small-pox in the papular form succeeded and became vesicular, the vesicles changing into pustules, and the eruption was disar earing fast on the 31st, when the patient was doing well. pearing fast on the 31st, when the patient was uping weu. He thought that in this case the symptoms were quite distinct-first, as regards the measles; and, secondly, as regards modified small-pox. The next case was from the notes of Dr. Hay: S. H., aged 41, in the fifth month of her seventh pregnancy, was saired with signers, followed by headache and pams in the limbs, on August 18 last. The next day she had sorethroat, and was covered with a profuse scarlatiniform eruption. On the 20th labour set in; and abortion followed on the 21st. evening vomiting came on, and lasted until the morning of the 22nd. The rash disappeared, and an exaggerated form of the 2-md. He reso insupposered, and an exaggerated form of measles was apparent, but of a darker colour. On the 23rd she was completely covered with small-pox pustules, and death caused on the 24th. In this case the abortion followed the on-set of the scarlet-fever; the patient did well until the vomit-ing set in, the forerunner of the small-pox; the soardet eruption faded on the fourth day, then followed the roseolar rash, next the eruption of small-pox, and on the sixth day of illness death occurred. Abortion in small-pox is usually met with in severe cases isochronous with the eruption on the following day, and in milder cases later on in the disease. In this case abortion took place three full days before the eruption of smallpox, and on the second after the onset of scarlating. In the third case, P. P., aged 4, the eruption of varicella came out on March 22, and four days after, when the anthor sawhim, the skin was covered from head to foot with scarlatinal eruption, very distinct, co-existent with the varicellous eruption. On April 3, distinct, co-existent with the variceous eruption. On april o, eruption of scatalting zone desquamation has commenced; varicellous scales still in parts of the body; doing well. The author thought that Dr. Hunter's statement, "that two craptive diseases cannot co-exist," had been disproved by Mr. Marson, and the above strugglened his position.

In the discussion that followed, Dr. Edwards-Crisp, Dr. Ross, Dr. Broadbent, Dr. Tilbury Fox, and Mr. Rogers Harrison took part, the PRESIDENT remarking, at the conclusion, that it was reasonable to suppose that two acute diseases could be co-existent; further facts must be sought, and the procession

The President then showed a case of Peribronchial Fibrosis. We hear much said in praise of modern Medicine and Surgery and of their triumphs; but we are not perfect, in consequence of the presence of vagueness and strong dislike to precision. Phthiais, up to a recent time, was thought to be ulcerative destruction of deposits in the lung. There were different kinds of phthisis-viz., that due to the presence of tubercles, giving rise to tuberculous phthisis; ulceration may take place; pneumonic exudation may happen (pneumonic form of phthisis); also a fibroid exudation giving rise to fibroid phthisis. The symptoms are so much alike that it has been difficult to recognise and define a case in life; but they are as distinct clinically nies and define a case on mrc; out targ are as sassuec cumcany as pathologically. The cases are at times complex, there being pneumonic inflammation present with the different kinds of deposit. The young patient shown, aged 19 years, suffered, fourteen years age, from an attack of pleuro-pneumonia. He was very ill, had cough, fewr, pain in the side, a high temperature of the present the present of the ture, and expectoration. He never fully recovered, but for a month or two seemed well; but he suffered from an attack of bronchitis, which on admission was found to be general. There was wheezing all over the chest, muco-purulent expec-There was whether an over the chost, muco-purment expectoration, and some fever. On percussion, there was solidification of the left lung in front. The dulness increased, and there was considerable bronchophony. The bronchitis disappeared, but the consolidation remained, and the left side, which before was full, began to contract; the vocal thrill and bronchophony decreased, all fever disappeared, and the respiration and pulse became normal, the physical signs alone being present. On

examination under the microscope of small pellets of mucus expectorated, small quantities of the arcolar tissue were found. showing the presence of a small cavity, which is quiescent, and gives no trouble. The consolidation and cavity have followed the pleuro-pneumonia; the corpuscular stuff, after the sub-sidence of the bronchitis, has been converted into a fibroid mass, and the patient has returned to health. There is now no evidence of a change going on, but consolidation and con-traction. The prognosis in these cases was favourable. Cases, traction. The prognous in tense cases was involvance. Cases, under advantageous circumstances, wont on for eighteen or twenty years or more. The left lung of this boy was solid as regards its middle two-thirds, and a small excavation was present. That side of the chest was contracting. The vocal present. That side of the chest was contracting. The vocal thrill and the bronchophony were diminishing, and the boy

An interesting discussion followed; after which
Dr. MEYMOTT TIDY read a paper "On the Estimation and
Detection of Sugar in Diabetic Urine." The first circumstance that attracted notice was the ordinarily high specific gravity of disbetic urine; yet some specimens loaded with sugar had almost a normal specific gravity. This was difficult of explanation, unless solids may be present in liquids in different molecular states. Ordinary urinometers are not to be trusted, some being correct within ten or fifteen degrees. The presence of torula cerevisise is not to be regarded as any proof of the existence of sugar. No less than three kinds of fungi are to be found in diabetic urine, and all three without a trace of sugar. With reference to the different kinds of sugar found in diabetic urine there was-(1) the ordinary grapesngar; (2) a variety resembling misile; (3) one differing from both these, and remarkable in several particulars. Passing to the chemical tests, the author remarked that if carbonic acid was to be collected for the purpose of estimating the quantity of sugar, it was better collected over oil than any other way, and if great accuracy were required, he suggested allowing the carbonic great necturacy were required, no suggester almowing the carroonic acid to pass into baryta water, the precipitate being weighed as a sulphate. 1. Dr. Roberts, of Manchester, had suggested taking the specific gravity both before and after fermentation, and from this estimating the amount of sugar present. The test gave very variable results. At one time very accurate, at another very inaccurate results had been obtained. 2. The copper test was valuable, although there were several bodies that interfered with its action and, as a quantitative test. Dr. Tidy had very little opinion of it, as it was impossible to mark the exact point where the blue colour had disappeared.

3. Moore's Test: The dark colour due to molassic acid produced when diabetic urine was boiled with potash solution. A duced when diabetic urine was boiled with potash solution. A series of solutions were placed on the table containing different but known quantities of sugar, but in each the same quantity of alkali. They ranged from 0.25 gr. of sugar to 2.95 gr., and the difference of tint was perfectly marked. Dr. Tidy proposed this, an adaptation of Vogel's method, for estimating sugar. The method of working was as follows:—A potash solution containing 1 gr. of potash to every septem (7 gr.) of water having been made, take 10 septems of the urine, add 10 septems of the solution; boil for one minute, dilute with distilled water in a four-ounce plial (similar to those used for the test solntions), and then compare with the test solutions the test souttons), and then compaire with the test solutions habelled as containing knowin quantities, multi the exact that is a habelled as containing knowin quantities, multi the exact that water so as to interfere with the test. If any precipitate is produced by boiling, it must be filtered. If the tint was more than that indicated by two-grain standard bottle, it must be marked and diluted. The experiment made gave—

1.25 gr. in 10 septems = 17.86 per 1000 gr. of wrine. 12. 5 gr. in 100

12. 5 gr. in 700 = about 8.6 per oz. ,, Dr. Tidy proposes to get rid of the trouble of the standard solutions by using gelatine coloured of different tints, as standards for comparison.

LEGAL INTELLIGENCE.

CONVICTION FOR REMOVING A SMALL-POX PATIENT.

William Lyall Aitchison, a baker, and Priscilla, his wife, of 13, Tothill-street, Westminstor, and Ann Whitton, of 19, Dartmonth-street, Westminster, were charged at the Westminster Police-court with wilfully exposing Georgina Jennett in certain public places and public conveyances without proper precaution, she, to their knowledge, suffering at the time from small-pox.

The chief point of interest in this case was that the opinion of Dr. Simpson was queted by the defence as an authority that the disease did net mature into the stage of infection for some days after the cruption showed itself, and that therefore at the time of removal the disease was not of an infectious character. The words quoted from a pamphlet written by Dr. Simpson on small-pox are the following: -- "As the disease does not mature into the stage of infection for some days after the eruption shows itself, a free period would thus be secured for arranging proper measures of isolation, either at home or in Hospital, before the date and danger of infection ware reached." re the date and danger of infection were reached.

Dr. Langton, who ordered the remeval of the girl by the South-Western Railway, bore out Dr. Simpson's statement, and was of opinion that at the time the girl was moved there was no infection, or he should have directed her removal to a

Hospital.

Mr. Woolrych was of opinion that the charge was established, and fined the two Aitchinsons £5 each, and Whitton 30s.

OBITUARY.

DR. G. H. FIELDING Was born at Hull, on October 26, 1801. He practised in his native town, first as a Surgeon and afterwards as a Physician, in partnership with his late father. He then re-Physician, in partnership with his into tather. The state is the inquished practice for several years, but afterwards recommended it at Tonbridge, where he died on May 24. Dr. Fielding devoted a considerable portion of his time to scientific pursuits, devoted a considerable portion of his time to scientaine pursuate, mere especially meteorology, and was author of several pamphlets on scientific subjects, one of the most remarkable of which was a paper "On a New Membrane in the Eye," read before the British Association, of which he was a life member. He was also a member of the British Meteorological Society He was also a memoer of the British affectorological Society (to whose Proceedings his last paper, "On the Summer of 1868," was contributed), and a Fellow of the Royal Society. Amongst his works is one "On the Influence of Colour on the Effect of Light, Heat, and Odeurs."

MEDICAL NEWS.

APOTHECARIES' HALL, — The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday, May 25, 1871 :-

0, 16/1:—wave Theodore, Spring-hill, Birmingham. Cogman, Charles, 207, New North-read Johnson, Charles Hargitt, 16/2 in Infirmary, Hull. Johnson, Charles Hargitt, 16/2 in Infirmary, Hull. Lee, Alfred Robert, Great College-street, Camden-Jown. Monks, Fredrick Aduln, Darniej-road, Hakerd, Palmer, Henry Drake, Oliney, Bucks.
Palmer, Henry Drake, Oliney, Bucks.

As Assistants in Compounding and Dispensing Medicines :-Carr, George, Sheffield. Clarke, George Ernest, Norwich. Smyth, Arthur William, Aldborough.

The fellowing gentlemen also on the same day passed their first Professional examination :--

Hosking, Ethelbert, King's College. Laver, Arthur Henry, St. Thomas's Hospital.

APPOINTMENTS.

The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

Bracerus, P. I., M.D. Lone, P. E. G. Spr., J. R.A.—Suppos-Accoucheur to the City of London Lorquis Heighal, City-roll Lines, Davies, M.R. C.S. and L.S. A.—Medical Gilleer to the Third (First Division) District of the Northbach Union.

Learneward, A. H., L.S.A., etc., of the London Hospitals—House-District Components to the Vess Ham, Strafford, and South Essex Dispersary, Juneans to the Vess Ham, Strafford, and South Essex.

Dispensary, Trooves, M. B., C.M. Edin,—A Resident Physician in the Royal Informary, Edinburgh. Seyrul, J. E., M.D., L. R.C.P. Phin, etc.—Public Vaccinator for the Waterion District Vaccination Selation, Stanford veter, Waterio-teval, which was a selated by the Computation of the Secondary of the the Seamen's Hospital, Greenwich (late Dresidency) in the Tr. Hughlings—Jackson, resigned.

VINCERT, OBMAN, M.R.C.S.—Surgeon to the National Orthopsedic Hospital, vice Henry Dick, M.D., resigned.

WAY, Edward Willis, I.R.C.P. Lond., M.R.C.S. Eng.—A Resident Physician in the Boyal Infirmary, Edinburgh. Wills, T. M., L.K.G.C.P.I., L.R.C.S.I.—Resident Medical Officer to the Bootle Hospital and Dispensary.

MILITARY APPOINTMENTS.

12rn Foor.—Staff Surgeon James Greig Leak, M.B., to be Surgeon, vice William Sinclair, deceased; Staff Surgeon Edward Louis McShoelay, M.D., to be Surgeon, vice Frederick Tyd Albott, appointed to the Star.

23m Foot.—Surgeon Benjamin Tydd, having completed twenty year." full-pay service, to be Surgeon-Major, under the provisions of the Royal Warrant of December 37, 1870.

Warrant of December 77, 1870.

Minical Diractaser.—Surgeon Frederick Tydd Abbott, from the 12th
Foot, to be Blaff Surgeon, see Edward Louis Meeberby, M.D., appointed
Foot, to be Blaff Surgeon, see Edward Louis Meeberby, M.D., appointed
Surgeon, wet James Greig Louak, M.B., appointed to the 12th Foot;
Assistant-Surgeon William Armstrong, from half-pay, late 26th Feet,
Assistant-Surgeon William Armstrong, from half-pay, late 26th Feet,
to be Staff, Assistant-Surgeon, see James Parr, promoted on the Staff.

Cause.—On May 26, at 37, Compton-terrace, Highbury, the wife of Arthur John Cribb, M.D., of a son.

IRRLAND.—On May 23, at The Limes, Linton, Cambridgeshire, the wife of Edward Ireland, Surgeon, son of the late J. G. J. Ireland, Esq., J.P., Kendal, Westmoreland, of a son.

Laovo.—On May 27, at 42, Finabury-circus, the wife of T. Franklin Lloyd, M.R.C.S.E., of a son.

Long .- On May 29, at South Park, Salehurst, the wife of C. F. Long, M.D. of a son.

Mossis.—On May 30, at 13, Somer's-place, Hyde-park-square, W., the wire of some M.D. Landon, Fellow of University College, of a daughter. WILSON.-On April 16, at Coonoor, the wife of Surgeon-Major J. Wilson of a son.

MARRIAGE.

TURERE-BIRKETT.-On May 26, at the Church of St. Mary the Virgin, Kingston, Henry Morten Turner, solicitor, to Edith, eldest daughter of Edmund Lloyd Birkett, M.D.

DEATHS.

Bacot, Jessie Margaret, fifth daughter of J. T. W. Bacot, Deputy Inspector-General of Hospitals, on May 25, at Gravesend, aged three and a half years,

RAUGE AMERICA, CARRELIN, the wife of E. M. Fawcett, M.D., at 8, Scroope-terrace, Cambridge, on May 24, aged 72.

Firlding, Gronor Hursley, M.D., F.R.S., etc., at the Grove House, Toubridge, on May 24, aged 69.

Hors, HERRY ACOUSTUS, M.R.C.S.E., third son of the late James Hore, Esq., of Dulwich-common, Surrey, at Park-street, Bristol, on May 24, aged 49. IMPRY, JAMES WILLIAM, younger son of the late Alfred Impry, M.D., of Great Yarmouth, at Caius College, Cambridge, on May 23, aged 22.

JACKSON, HENRY ERSRING, SON of Dr. James Hawlinson Jackson, at Allygurh, N.W.P. India, on May 4, aged 16 months. Lowe, William Thomas, F.E.C.S., at 33, Highbury-hill, on May 27,

Lows, W. aged 62.

WARE, MARTHA, widow of the late Charles Wake, M.D., at Learnington, on May 24. Williams, David, M.D., of Disquilfa, Carmarthenshire, and of Cur-borough, Lichfield, and forty-six years Honorary Physician to the North Dispensary, Liverpool, at 12, Imperial-square, Cheltenham, on May 24, aged 83.

In the following list the nature of the office vessels, the qualifications are considered by the construction of the office vessels, and the day of election (see far as known) are stated in succession. Aurrent, Urion—Medical Officer for the Maulden District; must possess the qualifications prescribed by the General Orders of the Poor-law Board. Applications and testimonials to Mr. John Wright, Clerk to the DEFEAL MORTH, or Lower See Section 1997.

DENTAL HOSPITAL OF LONDON, 32, SOHO-SQUARE.—Assistant Dental-Surgeon; must be L.D.S.R.C.S. Eng. Applications and testimonials to the Honorary Secretary on or before June 9.

THOURSHYIND SYMMEN Physician; must be a Graduate in Medicine of one of the Universities of the United Kingdom, or a Fellow or Member of one of the Colleges of Physiciana, and be duly registered. Applications and testimonials to John Marwden, Esq., Hon. Sec., on or before July 28.

LEEDS PUBLIC DISPENSARY.—Resident Medical Officer; must be duly qualified. Applications and testimonials to Mr. John Horsfall, 31, Albion-street, on or before June 14.

Abiton-street, on or before June 14.

LERCRETE LIPHINARY AND FEYEE HOUSE.—House-Surgeon and Apothecary; must have both Medical and Surgical qualifications. Applications and testimonials to Mr. T. A. Weekes, Secretary, on or before June 5. Election on June 13.

Election on June 13.

LESSON STONE OF DEPTAL SUBSERT, 22. SHID-SQUARE—Lecturer on LESSON STONE, OF DEPTAL SUBSERT, 23. SHID-SQUARE—Lecturer on Lecturer on Lecture

June 13.

LUTTERWORT! UFRON.—Medical Officer and Public Vaccinator for the district compressing the parabose of Armo of profite or the Control of Compressing the Armo of profiteiners in Vaccination, and possess the qualifications prescribed by the General Orders of the Poorlaw Board. Applications and testimonials to Mr. James Driver, Clerk McCatarline. Districts and testimonials to Mr. James Driver, Clerk McCatarline. Districts of the Control of C

Nameraru Uxiox.—Medical Officer for the Third District. Candidates must have the qualifications prescribed by the Ocneral Orders of the Foor-law Board, and understand the Welsh language. Applications and testimonials to Mr. John Thomas, Clerk, Narberth, on or before June 17. Election on the 19th.

Electron on the 19th.

Sr. Barntonsaw's Hospital.—Lecturer on Mental Discusses. Applicaciations and testimonicals to Mr. H. Cross, at the Hospital, on or before June 9. Any further information may be obtained of Mr. Morrant Baker, Hou. Sec. of the Medical School.

Sator Infigurary, Subgrasher at .—Resident House-Surgeon; must be a Member of the College of Surgeons of London, Edinburgh, or Dublin. Applications and testimonials to the Board of Directors, on or before June 9.

Substats Free Hospital for Wores and Children, Lower Sey-noth-street, Portage-signar,—Physician for out-patients; must be M.D., not practising pharmacy. Applications and testimonials to the Secretary, on or before June 3.

OBERSET COUNTY ASYLUW, WELLS,—Assistant Medical Officer; must be duly qualified and registered. Applications and testimonisis to the Medical Superintendent,

Workester General Inference,—Dispenser; must have had considerable experience. Applications and testimonials to Mr. A. P. Watkins, Secretary, 50, Forgate-street, Worcester, on or before June 17.

POOR-LAW MEDICAL SERVICE.

. The area of the census of 1861. RESIGNATIONS.

Brackley Union.—Mr. Richard Jones has resigned the First District; rea, 16,250; salary, 660 per annum;—and the Workhouse; salary, 440

area, 19,200; souncy, are per sounce, per annua. Per annua. South Motion Union.—Mr. Richard Ley has resigned the Ninth District; area, 11,600; population, 2000; salary, 533 10s. per annum. - macropromy parts. APPOINTMENTS.

Camelford Union.—Arthur Wade, M.R.C.S. Eng., L.S.A., to the Boscastle

Harverden Union,-Robert Platt, L.R.C.P. Edin., M.R.C.S. Eng., to the

Historical Calon-House Lands and M.R.C.S. Eng., L.S.A., to the Tydal District, parky Phinos.—John W. H. Watting, M.R.C.S. Eng., L.S.A., to the Tydal Phinos.—John W. H. Watting, M.R.C.S. Eng.

Eurocoma Desirac.

SUPERANNUATION.

Kunnshorough Union.—Mr. James Walker, after a service of seventeen years as Medical Officer for the Knarreborough District, has been awarded a superannuation allowance of £42 per annum.

It is expected there will be an examination of candidates for the Army Medical Department in August next. Dr. J. E. SMITHIES has been elected vaccinator for

the Waterloo district by the Lambeth Board of Guardians. Mr. Gowan, late of the Montrose Asylum, has been elected assistant Medical officer to the Worcester Lunatic

Asylum, in the place of Mr. Ceeley, resigned.
Dr. C. R. A. WRIGHT has been appointed Lecturer on Chemistry to St. Mary's Hospital, Dr. Russell, who formerly held that appointment, being now Professor of Chemistry at St. Bartholic Transfer St. Bartholomew's Hospital.

JOHN TOMES, Esq., F.R.S., of 37, Cavendish-square, and Samuel Cartwright, Esq., F.R.C.S., of 32, Old Burlington-street, have been appointed Consulting Dental Surgeons to the Dental Hospital.

Dental Hospital.

IT is proposed, says the Glasgow Herald, to found a chair in the Andersonian University for the study of Applied Physics, and already one friend of the University has offered £2000 towards this object.

DR. TRIPE, the Medical Officer to the Hackney District Board of Works, reported at the last meeting that small-pox was again on the increase in the district, as well as in London generally.

THE President of the Poor-law Board has given notice of an amendment to the Bill now before Parliament to provide for the punishment of persons who abscord from Hospitals for the reception of contagious diseases before they are discharged by the Medical Superintendent.

Lord Overstone, a member of the Senate of the University of London, has announced his intention of pur-chasing the rare mathematical library of the late Professor chasing the rare mannermanean norary of the late Trutessor De Morgan-valued at £1200—for the purpose of presenting it to the library of the new University building. LAST week the Dowager Marchioness of Westminster

laid the foundation-stone of a Cottage Hospital, to be erected at Shaftesbury as a memorial to the late Marquis of West-

FIFTEEN deaths from measles occurred on the homeward voyage of H.M. Indian troop-ship Euphrates, which arrived at Plymouth on Friday; there are still a large number of cases of measles on board.

CHOLERA has broken out in an alarming manner in Cashmere. The political resident in the Persian Gulf, writing on April 8, reports a rumour, at Bushire, of the plague having ahown itself at Deyer, and states his impression that the cholers now prevailing is in its origin attributable to the famine from which the neighbourhood of Bushire has suffered.

THE Metropolitan Asylum District Board have accepted the offer of the Lords of the Admiralty to lend them the ship Rhin for the purposes of a Hospital. It will accommodate from

150 to 200 patients.

A SMALL-POX HOSPITAL NOT A NUISANCE UNDER THE Acr.—Vice-Chancellor Wickens has just decided, in a suit in which the Metropolitan Asylum District Board were the plaintiffs, that a small-pox Hospital is not a nuisance under the Act, and refused to grant an injunction to restrain the Board from erecting such a building.

THE House of Commons Committee on the schemes for utilising the sewage of the metropolis have declined either to permit the Essex Reclamation Company to alter and limit their

permit the Essex iteramation Company to after and limit their original plans, or the Metropolitan Board of Works to take ever the works and plant of the Company.

ACCUBLIANC to the latest advices from Buenos Ayres, the deaths from yellow fever reached about 222 daily, which the deaths from yellow fever reached about 222 daily, which was a considerable decrease from the previous mortality, and there were signs of a decline in the epidemies. The sanitary state of Paraguay was improved, but fears were entertained of fever being introduced from Buenos Ayres. In Corrientes the epidemic was decreasing.

The Middlesex magistrates, last week, fixed the salaries of the several coroners in the county, from January 1, 1871, as follows:—Eastern district (J. Humphreys, Esg.), £2207 14s. 8d.; Central district (Dr. Lankester), £2099 13s. 4d.; Western district (Dr. Diplock), £638-10s. ld.; Westminster (Mr. Bedford), £474-6s. 2d.; Duchy of Lancaster (Mr. W. J. Payne), £59-9s. 3d.

THE Holborn Guardians have resolved, on the proposal of the Clerkenwell Vestry, to instruct their Medical officers, on the outbreak of any case of small-pox in their respective the outbreak of any case of small-pox in their respective districts, to ascertain and report whether or not the patient has been vaccinated—a thing which has not yet been done— and also to permit the Medical officer of the vestry to have access to their books for the purpose of embodying the results in his ordinary return concerning the health of the parish. AT a meeting of the Medical Society held recently in

the Royal Society's Rooms, Melbourne, Mr. Archer brought forward some new and interesting facts relating to the morforward some new and interesting facts relating to the mor-tatility of infants under 1 year in Victoria. He shadowed forth something like it, in "Facts and Figures," in 1888, and he now indicated that hygicine improvement had been schedily going on ever since. The annual rate of mortality out of every 100 infanta living, as shown by Dr. Farr (Schärited Journal, vol. xxix), is in Italy, 271; in the Netherslands, 233, in Pagisand, pility in the property on the James, 175, which were Pagisand, pility in these provises the Admirty, 167, children Archer exhibited tables proving the death-rate of children under 12 months old for the past ten years in Victoria to be only 13%, per cent. So, in fact, infant life in Victoria to be as valuable as it is in Italy, far in worth before that in England, and better even than in two of the most favoured countries on record-as far, at least, as vital statistics are concerned-namely, Denmark and Sweden.

ACTION AGAINST MISS JEX BLAKE .- On Tuesday, Edinburgh, the action for damages brought by Edward Craig, a student in the Edinburgh University, against Miss Jex Blake, for defamation of character, was opened in the first division of the Court of Sessions. The alleged libel was contained in a speech delivered by defendant before the concontained in a speech collevered by derichant before the contributors to the Royal Infirmary, at a meeting held in Edinburgh on January 2, 1871, and related to a riot which took place in November, 1870, at the Surgeons Hall, in consequence of the admission of lady students. Miss Blake said that the plaintiff was one of the ringleaders, that he used foul language, and appeared intoxicated. Damages were laid at £1000. William Anderson, a reporter, deposed that Miss Blake read from manuscript, which she gave to the representatives of the press at the close of the meeting, the representatives of the press at the close of the meeting, and which contained even stronger expressions than those given in the papers. Dr. Christison, whose assistant the charge of intoxication before the Lord Provost, but had refused to apologies. Mr. Rhind, writer to the Signat, deposed to sending a letter on the subject to the defendant, and getting no reply thereto. Mr. Watson then addressed the jury on behalf of the defendant. He said they intended to maintain that the worls founded upon were not calumnious, that they were used in the cenus of fair debate, and were perhat they were used in the cenus of the debate, and were perhaps of malice or ill-will towards any person, but were used fairly and honestly for the purpose of maintaining the cause which Miss Blake, in common with many other ladies present at that meeting, had very much at heart—namely, the admission of ladies to Medical colleges. Miss Jex Blake, being called, stated that there were the the foundation of the control of the

THE first of Mr. Moore's loctures on Medical Botany was given at the Betanical Garden of the Society of Apothe-caries, at Chebea, on Wednesday. A large number of Medical students and Practitioners attended. The lecture was for the most part introductory. The lecturer followed the late Dr. Lindley's distribution of the vegetable kingdom into Thallogens, Acrogens, Endogens, Dictyogons, Gymnogens, and Exogens, and cocquied the hour in pointing out the differences between these groups. The lectures will be continued on Wednesdays and Staurdays up to June 17.

Ar a meeting recently held in New York, with the view of effecting a reverguisation of the Lufant Asylum and Foundling Society of that city, Dr. Willard Parker gave some statistics which will be interesting to the Select Committee of the House of Commons now investigating the mortality due to baby-farming. Among the 3,000 annual birtha, he stated that about 2500 are lingtimus to and extracted that shout 2500 are lingtimus to and rayled or got rid of in any way whereby the individual can be saved from the law. In 1869, 274 per cent., and in 1870, 31 per cent., of all the deadling Asylum at Montreal, out of 4009 infants received, 3768 died, or only 7 per cent. Lived one year. On Randali's Lialand they save 10 per cent. of inthis reased by the mother 70 per cent. are saved, while in rural towns 85 per cent. survive. Dr. Parker argues in favour of placing the Asylum in the country, and against the separation of the child from its mother.

NOTES, QUERIES, AND REPLIES.

Me that questioneth much shall learn much .- Bacon.

J. S.—You are bound to advise your patient for his benefit.

arrived safely.

- M.B.—Toy the Water-purifying Company's small filter, sold in the Strand, near Somerset House. Solid germs, that can be detained by a filter, are more dangerous than anything in solution.
- C.—Professor Haughton's third lecture at the Royal Institution on Tuesdaynext, the 6th, will be devoted chiefly to the structure of the heart.

 His rap at Darwinism was fair; certainly it was effective.
- In ray at John which we will be the result either of the action of certain fungous germs, or else of artificial admixture. Some germs cause the wine to become bitter, and to lose its strength; such wine may be pre-
- wine to become bitter, and to lose its strength; such wine may be preserved by brandy, but is not nice nor wholesome.

 Mr. J. Henry (Charleston, New Zealand).—Your letter and enclosure have
- Competition—Regulations have been issued for an open competitive examipation for the instance of Assistant of Excise in the Department of Inland Revenue. Candidates will be required to satisfy the Civil Serrice Cominsistoners that they are natural-born subjects of her Majesty; between the ages of 19 and 22 on the day of the examination; that they are unmarried, and without family, and of good health and character. The examination will be in handwriting, orthography, arithmetic for vulnes and decimal fractions), and English composition. As the Ampericanpation will be a considered that the control of the conpetition will be a done requisitions, on Friday, June 23, 1871. Sixty persons will be selected, if so many should be found qualited, with the view of filling the sixty vacancies which are expected to occur before October 31 next. Second-class Assistants of Excise receive a salary of 60 per annum, with an additional allowance of 5, per diem when

actively employed. They are eligible for promotion to higher situations.

For further particulars apply to the Civil Service Commission.

- W.—Chlorine gas was discovered, we believe, by Scheele, the Swedish chemist, in 1774.
- C.—The country branch of the "Hospital for Sick Children, Great Ormond-street," is at Highpate.
- Gravesend.—Dr. Gramshaw's application to the Board of Guardians of the Gravesend Union for increase of sa'ary occupied the attention of the Board on the 18th inst. We shall be glad to know the result of the adjourned discussion.

MURPHY ANNUITY FUND. First List of Subscriptions received.

		£	8. 1	d.		£	s.	đ.
Dr. Arthur Farre		5	5	0	Dr. F. Weber	2	2	0
M. Bell, Esq		1	1	0	Fairlie Clarke, Esq	0	10	6
T. Alderton, Esq		î	i	0	T. W. Nunn, Esq	2	2	0
D. de Berdt Hovell, Esq		î	î	0	Dr. Edward T. Watkins	0	10	6
		2	2	0	W. H. Wonfor, Esq	ĭ	1	o
	***	î	î	0	Dr. Fred. Simms	i	i	o
Dr. H. M. Duncan		ŝ	ŝ			î	î	ŏ
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A Friend	***			0		ī	ī	0
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S. Berry Niblett, Esq.	***	1	.1	0	Dr. Radcliffe	2		
Dr. Protheroe Smith	***	10	10	0	Dr. Meadows	- 2		
Dr. Owen Rees		2	2	0	W Adams Esq	ī	i	ŏ
H. Cripps Lawrence, E.	sq.	1	1	0		ô		
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Dr. Andrew Clark		5	0	0	G. I	0	10	. 0
Dr. John Jones		0	5	0	Per Union Bank.			
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Walter Coulson, Esq.		5	0			. (10	
Prescott G. Hewett, E.			0		11			
Amount of su	Decr	ipti	one	s to	the present time, £205 6s. 6c			

OUT-PATIENT HOSPITAL REPORM.

OUT-PATIENT HOSPITAL REPURN.

TO THE EDITOR OF THE MEDICAL THESE AND GAZETTE.

Size,—Since last acknowledging receipt of donations for the above object.

I have received the folio	MATE	ψı	min	*			s. d	
		£.	8.	d. 1				
Mr. Bowman		1	0	0		0		0
Mr. Gant		0	5	0	Dr. Dickenson	A		ŏ
Dr. Douglas Powell	***	ō	5	0	Dr. Theodore Williams	0		ö
Dr. Stewart		0	10	6		0 1		6
Dr. Ford Anderson		0	10	0	Dr. F. Churchill			
Mr. J. Hutchinson		ĭ	1	0	Dr. Fuller	0 1		0
Mr. J. Hutchinson			•	ŏ	Dr. Hickman			0
Mr. Adams	. **	â	5	0	Dr. Dudley	0		0
Mr. Arnott	***	9	1	ŏ	Mr. Owen	0		0
Mr. F. Smith	***				Mr. Henry Smith	1	1	0
Dr. Cholmondeley	***	0	10	0		0	ā	0
Dr. Burrows	***	1	0	0			ō	ō
Dr. Day	***	- 2	2	0		٠.		0
Dr. Tilbury Fox		- 1	1	0	Mr. Brownfield	ô		ö
Mr. Cricbett		1	0	0	Mr. Atkinson			ò
Dr. Power		0	5	0		0 1		
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Dr. Glover	***	ň	5	ŏ	Dr. Curtis	1		0
Dr. Anstie	***	ň	5	ŏ	Dr. Langston			0
Dr. Thorowgood	***			0	Mr. Barrett	0 1	10	0
Mr. Middlemist	***	0	5		Mr. Lord		01	0
Dr. Burdon-Sanderson	***	0		0	Mr. George Wight		5	
Dr. Buzzard	***	- 0	10	0			10	6
Dr. W. Ogle		1	- 0	0	Mr. James Workey		15	0
Mr. Weeden Cooke		Ö	- 5	0	Stamps, etc., for reports	3 :	To.	U
MI. II OCCULT COOKE					4. 41	:	3 41	

Dr. Buszard 0.10 ol Mr. deorew wager 0.10 of Mr. Deorew Wager 0.10 of Mr. W. Opfe 1. W.

trouble you or your readers, unless a liberal response is made; and I must say I shink it will be a grierous shame, as well as a great mistake, if the labour bestowed by the late committees is thus to come to nought. The responsibility of such a failure will at all events not rest with them, nor with Yours, do., Maracows. Yours, do., Maracows.

George-street, Hanover-square.

NEW MEDICAL COMERA.

TO THE EDITOR OF THE MEDICAL TIMES AND GAZETTE.

Six.—In the case of a Medical man coming to practise in a town where
there is another Medical man, whose duty is it to call upon the other?

. The new-comer should call upon the established Practitioner; or, better still, should write to him, informing him of his intention to practise, of his qualifications, references, and proposed style of practice. Then, if all is satisfactory, and the established man a gentleman, he will probably call on the new-comer and welcome him, assuring him of a fair field-of course he may add, no favour.

A PORTRAIT OF JEHNER

TO THE ESSITE OF REPRESENTATION JEFFER.

Sin,—I was much pleased on being shown, the other day, at 250, Testen-ham-court-road, a fine-work of the stage shown, the other day, at 250, Testen-ham-court-road, a fine-work of the stage of the st

Kensington, May 30.

BOOKS RECEIVED-

BOOMS RECEIVED—

The Pish Poor-isw Medical System, by Dispensarius—A Per World

The Pish Poor-isw Medical System, by Dispensarius—A Per World

The Pish Poor-isw Medical System, by Dispensarius—A Per World

The Pish Poor-isw Medical System, by Dispensarius—A Per World

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PERIODICALS AND NEWSPAPERS RECEIVED-

The Gravescal and Darford Reporter—Thisldelphia Modical Times— The Gravescal and Darford Reporter—Thisldelphia Modical Times— The Darbor The Darbor The Darbor The Darbor The Darbor The Darbor The Dorsand Course of Medical Science—The Scottana—The Overland Cepton Observer—Medical Press and Circular—Edinburgh Medical Journal, June—The Practitioner, June

COMMUNICATIONS have been received from-

APPOINTMENTS FOR THE WEEK.

June 3. Saturday (this day).

perations at St. Bartholomew's, 1p p.m.; St. Thomas's, 0h a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 9 a.m.; Royal London Ophthalmic, 11 a.m. Actal Institution, 3 p.m. Joseph Norman Lockyer, F.R.S., "On the Instruments used in Modern Astronomy."

Operations at the Metropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Peter's Hospital for Stone, 24 p.m.; Exyal London Ophthalmic, 11 a.m. ROYAL INSTITUTION, 2 p.m. General Monthly Meeting.

6. Tuesday.

Operations at Guy's, 13 p.m.; Westminster, 2 p.m.; National Orthopsedie, Great Fortland-street, 2 p.m.; Royal Free, 2 p.m.; Royal London Ophthalms, 11 a.m. Rev. Prof. Hauption, M.D., F.R.S., "On the Frinciple of Least Action in Nature."

7. Wednesday.

Operations at University College Hospital, 2 p.m.; St. Mary'a, 14 p.m.; Middlesex, 1 p.m.; London, 2 p.m.; St. Bartholomew's, 14 p.m.; Orest Northern, 2 p.m.; St. Thomas's, 14 p.m.; Sanaritan, 2.30 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmic,

11 a.m.
OBSTETRICAL SOCIETY (Council Meeting, 7h p.m.), 8 p.m. Dr. Meadows,
"On Pelvic Hzematocele" (adjourned discussion). Dr. Tilt, "On the
Diagnosis of the least known Varieties of Uterine Inflammation." And
other Papers.

8. Thursday.

Operations at Bt. George's, 1p.m.; Central London Ophthalmie, 1p.m.; Royal Orthopsedie, 3p.m.; West London, 2p.m.; University College Hospital, 2p.m.; Royal London Ophthalmie, 11 a.m., BOYAL INSTITUTION, 3 p.m. Prof. Tyndall, LLLD, F.R.S., "On Sound,"

9. Friday.

Operations at Westrainster Ophthalmie, 1\(\text{p.m.}\); P.m.; Central London Ophthalmie, 2\(\text{p.m.}\); Royal London Ophthalmie, 1\(\text{s.m.}\); South London Ophthalmie, 2\(\text{p.m.}\); Royal Lindon Ophthalmie, 1\(\text{s.m.}\); South London Ophthalmie, 2\(\text{p.m.}\); P.m.; Royal, Ixavirityion, 9\(\text{p.m.}\); P.m. Prof. Tyndall, LL.D., F.R.S., "On Dust and Snote."

VITAL STATISTICS OF LONDON. Week ending Saturday, May 27, 1871.

BIRTHS.

Births of Boys, 917; Girls, 1009; Total, 1925. Average of 10 corresponding weeks, 1861-70, 1949-5.

DEATHS.

		Males.	Females.	Total.
Deaths during the week	:	705 657'0	696	1401 12601
Average corrected to increased population				1386
Deaths of people above 90			***	***

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS. 1

1414 14-1-1

		Popula- tion, 1861.	small-pox	Measles.	Scarlet Pover.	Diphtheri	Whooping cough.	Typhus.	Enteric (o Typhoid Fever.	Simple continues Fever.	Diarrhos
West		458125		2	5	1	5				1
North	***	618210	108	3	9		18	4	3	2	2
Central	***	383321	10		3		4	2	1	1	
East	***	571158	31	6	3	1	9		1		- 8
Bouth	***	773175	97	12	8	1	12	1	3	5	6
Total		2903989	257	23	28	2	48	7	8	8	12

METEOROLOGY.

From Observations a	ıt	the	Gree	micie	h (Obsert	ato	ry.
Mean height of barometer .								29 861 in.
Mean lemperature								56'T"
Highest point of thermometer .								79.5
Lowest point of thermometer .					٠			38-8*
Mean dew-point temperature .					٠			47'6°
General direction of wind								Variable.
Whole amount of rain in the we	e)	έ.						0-22 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, May 27, 1871, in the following large Towns:—

Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Popular	Persons to an A	Birtha Registered the week ending?	Deaths Registered the week ending 3	Highest during the Week.	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetree.
London	3259469	41'8	1920	1401	79.5	88.8	56.7	13.78	0.22	
Portsmouth	125464	13.3	80			42.0			0.14	
Norwich	81787	10.8			74.0	38.2	54'3	12:39	0-26	0.66
Bristol	173864	37.0			100	111	170		***	***
Wolverhampton	74438	55.0					55.6	18'11	1.75	4:44
Birmingham	878574	48.3					55.8			4.35
Leicester	101367	31.2	78	42		40.1		13.33	0.97	3.46
Nottingham	90480	45.3							0.84	3.50
Liverpool	590225	103-0		198		45'1	09.1		0.04	3.13
	379140 123851	23-9				37:0	FO. 1	13:39	1.12	9-84
	149030	23.2					20.1		0.76	1:93
Leeds	266106	12.3	176				54 8		0.73	1-05
Sheffield	255247	11.2	174		78.0		56 6		1.13	
Hull	135195	3810	102	52	100		000	10.00		
Sunderland	103037	31.5	50	68				***		000
Newcastle-on-Tyne	136293	25'5	106	87	70:0	41:0	51:8	11'00	0.48	1.99
Edinburgh	179944	4016	133		72.7	44.0	55.8	18:22	0.30	0.76
Glasgow	477627	94:3	351	327	75 6	43.5	57.1	13'94	0.83	0.38
Dublin (City, etc.)	322321	33'1	175	129	69-9	39.5	54.8	12:39	0-05	0.13
Total of 20 Towns		-	-	-	-	_	-	-	-	-
in United Kingd'm	7336961	84'4	4662	3498	79-5	37.9	55-7	13'16	0.75	1.90

At the Reyal Observatory, Green wich, the mean reading of the baronneler and the lowest was 50 ti in, at noon on Thursday, on Studies promise, Note—The population of Cities and Dromaghe for 157 in estimated on Note—Thursday and the lowest was 50 ti in, at noon on Thursday, 157 in estimated on rate as between the crosses 184 and 1851; at this distant period, however, from the last of these two common, it is probable that the estimate over, from the last of these two common, it is probable that the estimate ham, Leeds, Rendford, and Hull are based upon a local counserstion of the inhabited house.

The actual numbers (unrevised) of the population of these eities and boroughs, as enumerated on April 3, will probably be available before the middle of the year, rad will then be substituted for these estimates.

ORIGINAL LECTURES.

LECTURES

ON THE PRINCIPLE OF LEAST ACTION IN NATURE,

ILLUSTRATED BY ANIMAL MECHANICS.

DELIVERED AT THE Ecgal Institution of Great Britain.

By the Rev. SAMUEL HAUGHTON, M.D., D.C.L., F.R.S., etc.

(Corrected by the Rev. Professor.)

TUESDAY, JUNE 6, 1871.

LECTURE III.

Application of the Principle of Least Action to the Harrt and other Involvators. Waveter—The Mechanism of the Harrt explained, and the Amount of Work dain by it—Experimental and the Amount of Work dain by it—Experimental and the control of the entire Theory, derived from the Monarrent of the of the Harrt of Mon and the Ox—General Conclusions at to the Patture Programs of Animal Mechanics and Comparative Androny, when subject to the Rule of Geometry, the Queen and Mistrass of at the Science.

LADIES AND GENTLAKIN.—I have reserved for my closing lecture to-day the most wonderful and remarkable of all the examples of the principle of Least Action in Nature. It relates to the question—deeply interesting to every person in this room—of the action of our hearts. It shall be my effort to lay before you an account of the work done by our hearts. The story of the heart is a wonderful and mysterious story, and you must make allowances for the difficulties of the subject if I am not able to make all about it as clear as could be desired. It is not easy to convey in a short hour the results of the labour of ten years. The progress of discovery is slow, paths of research at plain to those not travelling in the same paths of research at plain to those not travelling in the same paths of research at plain to you will take it for granted that I could make you perfectly understand all that I know of the subject if time would permit.

We have first to consider the question of the amount of recione by our hearts. The heart is a small muscle, weighing only a few ounces, beating perpetually day and night, morning and evening, sammer and winter; and yet often an old man's heart nearly 100 years of age is as perfect and complete as when he means that the person of the human heart, the most of heart means the force and power of the human heart, the most of heart means the human heart, the most of the heart of the heart of the experiment was made. We have experimented on the hearts of horses, oxen, dogs, and sheep, however. The first of these series of experiments were made by the celebrated first of these series of experiments were made by the celebrated of the last century, who measured, by direct experiments of the last century is the measured. These experiments showed that it varies in the horse and ox, amounting to about time feet; and in the smaller animals to somewhat less. We can calculate the total amount of work does by the car of a heart of a horse, by the heart of a dog, or of a sleep. But heart of a horse, by the heart of a dog, experiment upon man, because the experiment is accompanied with certain feath.

The co-efficient de plilary resistance must be determined. The co-efficient de blood into the apillary reseals, which permeate the pumps the blood into the apillary reseals, which permeate an experience of the permeater of the

ve	that	in the	sheep	and	dog	the	co-efficients
	11	OX					39-4
	**	horse					39'3
	**	dog				٠	Tirs
•	H LHC	sneep					146

You observe that in the sheep and dog the co-efficients are doubt those of the horse and ox. These large and smal animals naturally group themselves together. Now, with which of these groups of animals are we to associate on selves in making a calculation of the amount of work done by our

Vol. I, 1871. No. 1093.

hearts? We cannot perform the direct experiment, but an accident on one occasion placed in my power the means of making a close approximation to the true result. When the artery of the horse or cow is cut we can measure with ease the height to which the blood will spout. But we find that the artery does not spout to the height of nine feet, as we should have supposed. There is a hydrostatic pressure of nine feet in have supposed. There is a hydrostatic pressure of nine feet in the horse, but the blood will only spont to the height of two feet and a half. The reason of this is, that Nature shuts off the pressure to prevent the loss of blood. If we could by any process arrive at the knowledge of the height of blood from the wounded artery of mau, and compare it with that of the the wounsed arety or man, and conjuges it was taked of tan below the state of the s water the indowing phenomenon in the course of no operator. A large artery was cut through, became it occurred pirating unusual place. The blood spouted in jets for a minute or for two minutes before the artery could be tied. When the operation was over, I examined with care the height of the table on which the man lay, and the exact position of the farthest spurts of blood upon the floor; and by the application of a little geometry and mathematics to this problem, I was able to ascertain—by taking the spots of blood thrown to the greatest distance—the velocity with which the blood flowed from the wounded artery. course of the blood is a parabola, and, two points being given, we can construct the angle of elevation and the velocity of the fluid. As soon as I had made this calculation, I found that, if nuut. As soon as 1 nan made trus calculation, 1 found trait, if 1 ent the artery of a man, it would spout to the height of 2:58 feet, or rather more than thirty inches. Now, taking the mean of all Dr. Hales's experiments upon horses, I find that it is 2:53 feet. We cannot, indeed, compare the hydrostath pressure of the human heart directly, but we can by this determination of the velocity of the spouting blood show the force minimum of the circulation in our system, and apply to it the co-efficient of resistance which we find directly from the horse and ox. When this co-efficient of the hydrostatic pressure inside the human heart is used, and knowing how often the human heart beats-seventy-five times every minute-we can calculate the amount of work done in a given time by the human heart. This work I shall represent in an extremely easy way, and show you the extraordinary amount which it attains. If I cut out an ounce of muscle from the heart, and ask myself the question—What number of pounds can that contracting muscle lift in the course of a minute? I find that a single ounce of the human contracting muscle will lift 20 576 pounds through the height of a foot in a minute! This I beli be a close approximation to the power of the heart; but, inasmuch as it is not obtained by direct but by indirect reasoning, I tried to verify it in another way; and in verifying it by a second process I made use of an interesting phenomenon originally observed by the celebrated Dr. Wollston, and recorded in the Philosophical Transactions for 1809. He was the first person who noticed that when our muscles were contracting insteperson with noticed that when our numbers were contracting they give out a deep next. If any of you wish, you may try it is any of the second of the second of the second of the second silence, place your elbows on a table and place your for-fingers lightly in the ears, clenching the hands at the same time, you will hear a sound you never heard before—a deep, low hun; or, if you waken at night and elsent your teeth, so as to call the masseter muscles into action, you will hear a hum, the pillow acting as a sounding-board. You can, therefore, soon satisfy yourselves that the action of a muscle is accompanied by something which produces a musical note. My attention was directed to this in a remarkable way. A young Physician of Marseilles-Dr. Collongues-was directed to the study of this curious phenomenon in examining some of the cases of cholera which died. I found the same fact in Dublin at tho same time, and quite unknown to Dr. Collongues, as his discovery was to me. The patient in cholera has his temperature much lower than in health. 98° F. is the natural heat of the blood, and it is well known to Physicians that if it rises some 7' or 8 the patient will die; and so, if the temperature of the blood falls about the same number of degrees, the patient will die. But it is a strange fact that, if you examine the body of a patient who dies of cholera, it is warm. The temperature rises after death to 103° or 104°, as if the person was in a fever. This is accompanied by the movements of the limits which cause such great alarm to those who know no better. Happening to place my ear against a person who had just died, I heard a hum. I placed my ear to the heart, to see if he was yet alive and if I could save his life, but he was dead.

His muscles still continued to live after the heart, which has been called primous views utilizans morizan-the first to live, and, that last to die. After the heart has essaed to live and the brain to thin—after the man is dead—the muscles still live and have the last traces of life in the body, like the jast motes of the harp which vibrate when the master's hand has esseeded in large which when the state of organ-pipes, and where I could afterwards measure its correct kind and force as my leisure. The muscular hum which vibrates is C on the musical scale, two octaves below the C of the bass staff, or D, two octaves below 10 on the bass staff. I found that it is cortainly between C or D, and by fixing a second organ-pipe cortainly the whom C or D, and by fixing a second organ-pipe that with a considerable degree of precision the exact huist this considerable degree of precision the exact huist has considerable degree of precision the exact huist my the considerable degree of precision the exact huist proposed to be 35 vibrations per second.

Well, after I published this result, Dr. Collongues, who had removed to P ratin, sent me a book, in which he had succeeded

That I make to so on the third one per second.

The period of the period

We have now discussed—and, I must, to your estimation. We have now discussed—and, I must, to your estimation. But the question is naturally asked—How does the baset do that. But the question is naturally asked—How does the baset do that. But the question is naturally asked—How does the baset do that work? I cannot pretend to tell you how that is done by nervous supply, as that is beyond our present knowledge; but I have succeeded in getting some information from the nunsular fibres of the heart. I have applied a strict and rigorous testing of least action to the structure of the heart, so as to ascertain, if possible, some law which must be infilled by the arrangement, and have of muscular contraction which must be compiled with it this:—Let the length of the mascular fibre be fixed; the order comes from the brain, or some other nervous centre, for this fibre to contract; it must be shortened to eight-minth of the infinite to contract; it must be shortened to eight-minth of the heart of the contract of the stream. So we must find some principle in the heart of the stream of the contract of the careal. So we must find some principle in the heart of the careal contract of the careal contract of the contract. So we must find some principle in the heart of the careal contract of the contract o

whole, and these are called the common fibres, because common to both cavities. I have taken my diagrams from Dr. Sibson's book on this subject. These fibres start from the tendinous zone, wind round the heart to the apex, and then run back to the zone internally. The outer fibres enter the heart at the apex, and their return form the liming and internal parts of will have an idea of the complexity of the form of the heart. We have three appiens of fibres running round these cavities, then, according to extremely beautiful geometrical law. The law is—that the spirity lifes' sibich goes round the entire two cavities of the heart describes 180 degrees before it returns; whereas the starts describes 180 degrees before it returns; whereas the starts describe an entire cromsference and a offici. This fifth is to given they consider the continuous conditions of the cavities, just as you would give an extra wring to a cloth. I have to thank Dr. Sibson for placing at my disposal his unrivalled preparations of dissected hearts—indeed, he placed all his stores of knowledge at my disposal. As he is not present, and therefore cannot blash at what I say, I may add that his great knowledge of the heart is a supera law than the say, I may add that his great through go of the most in fully equalized by the Kindiness with which he places his law segmentally a quality of scientific men that it is a greent pleasure to find one wishout it. But I suppose this quality of circuits are hered to be seen first in so arranged, then, that it contracts because the contracts are a contracts and the contracts and the contracts are a contracts.

Each of those fibres is so arranged, then, that it contracts to eight-initials of its length, and the lengths of each group of fibres are the same. Since this is so, you will easily see that, as far as they are concerned, the principle of least action in fallified. But there is a manner of applying a crucial test to the principle of least action here. I leave got two groups of fibres—each of least action here. I leave got two groups of fibres—one of the second of the second

And so, also $\frac{\lambda + \rho}{\lambda} = \frac{L^{3} - L^{3}}{l^{3} - l^{3}}$ $\frac{L^{3}}{l^{3}} = \frac{\lambda + \rho}{\lambda}$

where L is the length of the common fibres, l is the length of the proper fibres, and λ and ρ are the volumes of the left and right ventricles.

There are there are of equal discussions. But I have taken the mean of measurements under by the observers, and find that the mean is 2125 inches. From theoretical grounds, I believe that more accurate observations will lead to 2. I measured the outer fibres of many beatr of ozen, and found them 10×75 inches. I measured the outer fibres of many beatr of ozen, and found them 10×75 inches. I measured the fibres of the left ventricle, and found they had a zenon of 8×25. Well I suppose there is no one in the room who will be able to tell me the ratio of the cubes. I get it can as 2004. I believe that to be a most cubes. I get it can as 2004. I believe that to be a most of least action is rapidle of selving the difficulties of the beat's action, and bringing the to know one more of the many beneficent laws of the all-wise Creator. How it would have rejected the heart of the great Knyler had be known this ratio. Divine Geometry! Queen and Mistress and Judge of all Sciences, thy right to rule them shall never be disputed!

Sciences, thy right to rue them smain never the cusputed:
This principle of least action applied to the heart consists of
This principle of least action applied to the heart consists of
the same thing. If you take a fowling-piece, it is of less consequence how the fibres in it are arranged, as it is quite able
to resist the explosion for which it is constructed; therefore, no
one thinks of asking how its fibres run. But when you come
to the construction of 600 lb, gun=such as the Armstrongethen you must calculate your arrangement of the fibres so as
to complete every fibre of steel or wroughli tron, as the case may
It consists of eight rings. The first, sixth, and eighth rings
were burst, the other five were whole. But a perfect gun
would burst so that all the eight rings would give way together, each perialing with its neighbour. And that problem—
which engineers have yet failed to solve—is solved in the
heart of every person sitting in this room.

I shall now apply briefly the principle of least action to the

cllipsoided muscle—generally a muscular bag surrounding a cavity containing fluid. In strempting the solution of the ellipsoidal muscle, i found myself before a problem of architecture, which is, to find the equilibrium of the elliptical dome. Every portion of the carred ellipsoidal muscle forms a part as to selve the problem in architecture. What are the strain as to solve the problem in architecture, What are the strains in various directions of the elliptical dome? I think I have solved it completely, and by the aid of pure geometry. With the exception of the Pantheon of Paris, which happily has escaped the flames, there is no equally balanced dome in existence. The dome in this city—St. Paul's—is propped up with chains of iron and otherwise. Even the great Sir Christopher Wren was not able to apply in practice the prin-Christopher Wren was not able to apply in practice the prin-siples of architecture so as to make the done of St. Palls stand by its own strength. In the done of St. Pales's at Kome, ramy hoops of irou are put round it, certainly not intended by the great Michael Angelo. The done at Florence is an octagonal one. The attempt law been made in the roof of the Albert Hall—a building to commonorate the good father of England a future king—but whether that construction has been successfully carried out on the principles of least action I cannot say. The principle I would convey to you is this—that not a single pound of material should be used more than is necessary.

than is necessary.

I shall now apply this to the muscle which is used in all phecutal mammals to cause the birth of the young. It is produced by Nature for a special purpose, and as soon as it has accomplished this it is removed. Therefore, if you can find a test of my principle anywhere, ou can find it here. If Nature makes the muscle too strong, there is waste of power; if she makes it too weak, the life of the animal is risked. It is not a muscle intended to bear its trials of strength from day to day: such muscles grow day by day to meet its demands of strength. But the muscle which causes the birth of the young mammal never tries its strength till the moment of actual exercise. By measuring the curvatures and thickness of these muscles. I ascertained that the hydrostatic pressure of 3.4 pounds per square inch can be produced by the muscle. Dr. Matthews Duncan, of Edinburgh, and Professor Tait have made experiments with the membranes ruptured by this muscle, and in no case did they find it necessary to use a pressure greater than 3.1 pounds per square inch. This is a most remarkable case of least action; there is an adaptation of force to resistance, the force to overcome the resistance found exactly of the right degree of strength. Here, also, we see Nature attain perfection at a single bound; on the principle of foresight, there is no necessity to suppose that she attains perfection by means of an endless succession of blunders.

Ladica and Centlemen.—I have now to take my leave of you. I have to thank you for the kindness with which you have listened to mo, and I sincerely hope that you will make some allowance for the difficulties and novelty of my subject. I come among you bringing new facts, and have to place these facts before you in the minimum of time. I am here as a traveller from a strange country, where I have seen strange things. The pleasure of making these researches, and the novelty of the results, encouraged me to bring the matter before noverly of the results, encouraged me to using use maves oware you, thinking they might interest you. I am but an humble craftesman hewing stones for the temple of science; but after us there must arise some great master-builder. The science of animal mechanics is only commencing. It is impossible to know what will hithmeticy own from its application. We are even now, however, in a position to lead most valuable aid to the science of geology. You soo its fossil skeletons and you mark the points and processes of their bones for the attach-ments of muscles. We now can calculate with precision what the weights, the forms, the sizes were of the muscles of these extinct animals, and can re-clothe the fossil megatherium with his muscles and form. And many lessons and applications of this principle of least action will start up yet.

this principle of least action was start up yes.

But let us suppose that all sciences are carried to perfection—let us suppose that man has found the key of knowledge, and knows all mysteries—he will still find himself a worshipper in the temple, and before the altar of an Unknown God, wh true nature and moral relation to himself must be sought from other sources. There are truths in religion as real and as certain as any of the laws of Nature, although we cannot see them. My eyes cannot see them, my ears cannot hear them, nor can I feel them with an outward sense; but they are there, and they shall endure when Nature and her laws shall pass away like a troubled dream. I have many a time seen the smile of joy light up the face of the departing like a sunbeam on the troubled waters at the remembrance of these blessed

truths. These truths are more dear to me than all that Nature truths. These truths are more dear to me than an anax square can teach me, because they reach my inner consciousness. I learned these truths at my mother's knee; I oherish them as my dearest treasure; and if it should be necessary to vindicate them, and I were called upon, for them I should give up my life

ORIGINAL COMMUNICATIONS.

CLINICAL REMARKS

ON THE SEVERAL FORMS OF PULMONARY PHTHISIS.

By R. DOUGLAS POWELL, M.D., M.R.C.P., Assistant-Physician to the Hospital for Consumption and Diseases of the Chest, Brompton, and to the Charing-cross Hospital.

Introductory Puthology: Two kinds of Morbid Processes—In-flammation: affecting the Parenchyma, Catarrhal Prosmonia in finamention: a greeting the Eurochyma, Cotarhal Finemonic in Three Degrees of Intentity; affecting the Forous Stroma, Pal-Heroditary Predisposition to Tubervalosis and Communication— Mechanical Effects of the Respiratory Morements upon the Lungs and Pleura: Pleural Adhesion, Mode of Prediction, Significance of Friction—Thickning of Pieura, how preduced— Bronchiectaris.

THE subject of Pulmonary Phthisis may be thought by many Assessory or runnomary I'nthasse may be thought by many to be well-night worn out, and yet it is not beyond the truth to say that at the present time the general opinion of the Prossion as to what constitutes pulmonary phishiss; how many kinds of phthisis there are; whether there is sufficient difference in prognous between the several kinds to make it ference in prognosis between the several kinds to make it worth while to distinguish them; whether all are not merely different degrees of the same disease, or the same disease localised in different parts of the lung by different board causes; whether antibised, or that he is liable to become so as a result of the himmenphysis; whether distributed and the same so as a result of the himmenphysis; whether distributed are a sure sign of the super-restint on tuberculoss or not-Tro-fessional opinion on all these questions, I say, and more which might be mentioned, is still in a very divided and fragmentary condition. The more so, because Phthisis, a long and (as generally regarded) an essentially fatal malady, is some-what shunned at the large clinical Hospitals; it but rarely what summed at the large cultical lecture; the points of diagnosis once shown to the student, the prognosis—fatal sooner or later—once announced, and the doomed sufferer, whose case atter—once announced, and the doomed sufferer, whose case ceases now to be of interest, passes in future unnoticed, or is geommended to a Consumption Hospital. The student, when he entires into private practice, becomes bewindered with the Protean forms of this disease, and the great difficulty of forming a reasonably accurate prognosis. On case comes to him with an amount of disease so slight that he cannot feel ocertain that any at all exists; the cheet is only delicate, but the patient dise in a few months. He is shocked, in another case, to find a farry cavit as tone new and his respectation. case, to find a large cavity at one aper, and his prognosis is very grave; yet the patient enjoys fair health for years. He finally resolves never again to venture upon a decided prognosis in such cases at all.

If, therefore, the few cases hereafter to be narrated, illus-II, therefore, the few sases hereafter to be narrated, illustrating some of the principal forms of Pulmonary Phillips now recognised, with such practical comments on diagnosis, prognosis, and treatments amy be suggested by them, should tend in any degree, by bringing forward in an applied from the doctrines of the present day, to increase the precision and admitteness of the general knowledge of this always precision and definiteness, the object of these papers with have been utility by

achieved.

achieved.

It is not proposed to enter with any historical or descriptive minuteness upon so wide a subject as the morbid
anatomy of the forms of lung disease included under the comanalony of the forms of lung disease included under the com-mon term Pathiss; but it would be scarcely possible to carry out the objects in view without first giving a brief sketch of these pathological changes upon which the clinical features of the different varieties of phthisis are based. It must here, too, be observed that, though for the moment the movid processes going on in the lungs will be alone considered, yet this is in no disregard to the impartment of the property of the considered of the state of the considered of the state of th which we can take no anatomical note, nor of degenerations or simple anatomically, and about which there has consequently

been less confusion of terminology and vagueness of thought. To all these conditions reference can best be made incidentally in the discussion of the points specially illustrative of individual cases.

On inspecting the lungs of those who have died of phthisis, we meet with a very great variety of appearances, which may nevertheless, be recognised as the results of a comparatively nevertnetess, be recognised as the results of a comparatively few morbid processes; we see consolidation of the lung in every stage of formation, decay, and removal; and, glancing at the emaciated form before us, we have a very practical definition of Pithissi Pulmonalis—progressive consolidation and decay of the lung with progressive wasting of the body.

As to the exact nature of the morbid processes which lead to this destruction of lung and waste of body, there are numerous and diverse opinions. These processes may, however, be said to beof two kinds. 1. Inflammation affecting with different degrees of intensity the different tissues of the lung, and running an acute, chronic, or chequered course. 2. A new growth-Tubercle-with its characteristic granulations disseminated through the lungs, or collected into nodular groups, or mingled with inflammatory changes, developing into fibroid tissue, or abruptly undergoing fatty change. We may meet with either of these processes in the acute or chronic form without any admixture of the other, but it is comparatively rare to meet with chronic tubercle unmixed with inflammatory changes

It may be here recollected that fatty degeneration is the necessary consequence of inflammation, and is the means by which the products of inflammation become removable by absorption or expectoration, or sequestered for a time by cascation. The fate of all new growth is also sooner or later fatty decay, and in Tubercle we find no exception to this rule.

There is yet a third set of processes of a physical kind, but having pathological results, which must be taken into account as leading to very important modifications in the signs of as leading to very important modifications in the segme of disease during life and the appearances post-mertem—viz., 3. The respiratory movements of the chest walls, with the mechanical effects which they produce npon the lungs and pleura when modified in their physical condition by disease.

The inflammatory process takes the largest and most im-In innammatory process takes the largest and most important share in the production of the various appearances met with in phthisical lungs: it is the destroying element in this disease, according to Addison. It may therefore be appropriately spoken of first. With that form of inflammation of the lung—scutz sthenic pneumonia—agreeing in many of its characters with an acute specific disease (e.g., idiopathic erysipelas), we have but little to do in dealing with cases of aspease), we have out little to do in dealing with cases of phthisis; we only meet with it as a very exceptional complica-tion. Doubtless, the subject of acute basic pneumonia already eachectic, or rendered so by neglect during the disease, may become phthisical; some cases of basic phthisis have this origin. But the pneumonia which is the most constant element of true phthisis is of a very different kind; its onset is usually insi-dieus, and its origin appears to be generally by extension of a catarrhal process from the fluer bronchial tubes to the interior catarraal process from the nace remeans tuces to the interior of the already in hence its manne-naturals or keest-apear-monia with which we are familiar in keeping-couple, (a) This form of pneumonia is essentially lobular, though the coales-cence of many adjacent lobules may cause the consolidation of a whole lobe. The already increased the coales-dy the coaleswith all degrees of intensity, from mere superficial catarrh causing slight epithelial desquamation to the most deeply causing singui-epitheliai desquamation to the most deeply destructive involvement of their walls. In the simplest alveolar catarrh the cellular products may escape with the expectoration, leaving the alveolar wall undamaged. In the user degree of intensity, the alveolar deal with the expectoration of t with the large granular cells, which are produced in great abundance. These cells, thus stuffing the alveoli, almost immediately begin to undergo fatty degeneration—the process by which resolution is naturally effected. They may liquefy, and be partially absorbed, partially expectorated; but the alveolar walls have been damaged, and permaneut local collapse remains behind from their agglutination. This is the natural cure of the disease in this degree.

In some cases the cellular products, after having undergone complete fatty degeneration, become inspissated by absorption compute fatty degeneration, become inspissated by assorption of fluid matter, and remain for a long time—perhaps for the lifetime of the patient—in the cheesy condition, or subsequently become creteacous. This may be called natural arrest by obsolescence, and these cheesy masses are commonly looked upon as "did tubercle." upon as "old tubercle.

In the still more intense degree of the process—catarrhal neumonia—new under consideration, the alveolar wall is deeply involved in the inflammation, so that it subsequently undergoes, to a greater or less depth, according to the degree, fatty degeneration, together with its cellular contents, and breaks down in the subsequent liquefaction, gradually or rapidly, according to circumstances

The elastic tissue of the lung takes no active part in any of Ame cassue cassue or the rung cases no active part in any or its inflammatory processes; it escapes, but little altered, when the alveoli break down, and thus, on being recognised in the sputa, affords certain evidence of pulmonary destruction. It will, ef course, be understood that there is no real line of demarcation between the degrees of severity above described The intensity of the first attack may at once separately. The intensity of the first attack may at once determine the depth of injury, or the lighter may gradually pass into the graver degree.

But, in addition to the parenchyma (b) proper of the lung, which, with its epithelium, is the special seat of catarrhal pneumonia, there is the fibrous stroma (if one may so style it) formed by the interlobular arcolar tissue supplying sheaths to the vessels and bronchi, contributing also to the formation of the alveoli, and intimately connected at the surface of the lung with the inresting pleara. It could not be expected that an inflammation of the lung of any great severity would leave this widely spread tissue untouched; and it might also be anticipated, on spreas ussue uncoussed; and it might also on anticipates, reflection, that a tissue thus (comparatively speaking) deeply placed would, as a very general rule, only be affected secondarily to disease of the purecelyma or pleura. From this interstitial tissue are derived the tough, fibrous, pus-secreting walls of activities and the tough of cavities, and the trabeculæ which for a long time resist the most severely destructive processes. The inflammatory process in this tissue is, as a rule, a much more deliberate one; even when in a state of active ulceration, as in the walls of some cavities, the destruction is molecular, sphacelus is rare. But the inflammatory process in this tissue much more generally partakes of the character of growth under irritation, producing a more or less general condition of fibrosis of the lung. Decay, however, the inevitable result of inflammation, finally sets in the fibrous tissue, at first merely hypertrophous, loses its characters as such; its nuclei, at first very abundant, gradually fade; its fibres fuse into tough homegeneous bands (shreid tissue), and, in their turn, become granular and fatty, and finally crumble away.

The various primary diseases—broncho-pnenmonia, croupous pneumonia, chronic tubercle, pleurisy, etc.—npon which pul-monary fibrosis supervenes are thereby marked by clinical features of great interest and of significance for prognosis; but sometimes the fibrosis is so extensive as to become, whatever its origin may have been, the essential disease. Such cases have been very conveniently classified separately by Dr. Andrew Clark under the term "fibroid phthisis." He regards the disease as sometimes of idiepathic origin, or-what amounts the disease as sometimes of idiepathic origin, or—what amounts to nearly the same thing—as a disease which progressively invades and destroys the lung from some one point of origin, as a local plearity or bronchits. I must confess that in my much smaller experience I have not yet met with a case in which the fibrosis has been either idiopathic or has thus ca-tended widely beyond the primary disease without the apper-vention of another disease, need as utberete, or a repetitive or remains of another disease, need as utberete, or a repetitive. vention of another disease, such as theorete, or a repetition the primary malady. I will refer to this again, however, later.

It would be exceedingly profitless to go historically into the question as to the essential nature and mode of origin of tubercle.

Sufficient evidence has now accumulated to render it tolerably certain that Tubercle is a merbid growth of the lymphatic gland class, and that it may be a mere hyperplasis of gland tissue normally minutely disseminated through the organs of the body (Sanderson). The characteristic form of tubercle is the grey granulation which has its seat in the alreolar wall, or in the connective tissue sheathing the vessels, or under the mucous membrane of the bronchial tubes. It is vascular, and under favourable circumstances undergoes development iuto a peculiar form of fibroid tissue, at first very

(b) The term "parenchyma" is conveniently, and perhaps correctly, restricted to the minutest bronchi and the alveoli into which they are expanded.

⁽a) Professor Niemeyre states, on the authority of Bartela and Ziemasen, This is a question of little importance to the present subject; but I cannot thin that each is the case with the most typical from of breache-person succeeds to collapse, less frequently so in messley; but induration and arguitantism of the size-cite is the result—state the congutation by the arguitantism of the size-cite is the result—state congutation by the arguitantism of the size-cite is the result—state congutation by the supervised of the confidence of the profit of the contract of Niemeyer's description of twosher-personnels, as presenting, on cetting through the consideration, summed surface, makes it appear that he much necessary to the confidence of the confidence of the confidence are confidenced in the confidence of the con

recognisable from ordinary hyperplastic fibrous tissue, but which subsequently becomes converted into bands or tracts of which subsequently becomes converted into bands or tracts of uniform homogeneous texture, and finally fattly degenerates and crumbles away. This development of tubercle, before its final decay, has hardly been sufficiently insisted upon as an essential character always observable if circumstances permit essential character always observable if circumstances permit the attainment of the necessary stage. It is, however, in strict accordance with the lymphatic gland type of this morbid growth, and it is of some importance as affecting the clinical characters of chronic tuberculosis. In acute tuberculosis, the patient does not often live long e-mough for any process of the kind to take place. In chronic pulmonary tuberculisation, however, and when tubercle attacks a lung rendered quiescent by previous disease, the development of tubercle into fibroid e may be seen.

As regards the origin of tubercle, opinions are extremely various and, indeed, irreconcilable; but the tendency of modern research—the experiments on inoculation in animals. and the very powerful advocacy of the late Professor Niemeyer—is certainly to show that tubercle is much more commonly a secondary disease than has until lately been suspected-that people are, in fact, only very exceptionally, if ever, born to die of tuberculosis. A due appreciation of this doctrine, so different from that even now accepted by many, is of almost rail: run trast even now accepted by many, is of aimost and all the second production and other necessary of present to the ship feinic and other necessary of present of the second continuous of present and other necessary of the second continuous of the world. I think, however, be extremely injudicious to deny hereditary predisposition to tubercle altogether. Moreover, when we come to the question of hereditary predisposition to those forms of consumption which originate in catarrhal pneumonia, it is freely admitted that the offspring of consumptive mona, it is revy annitied that the onspring of consumptive parents have a tendency to this form of pulmonary phthisis, that the scrofulous have a like tendency [Niemeyer], and that scrofulosis is sometimes hereditary.(e) Morcover, from the tendency to the occurrence of chronic inflammation especially in glands, leaving behind cheesy deposits, by which the scrofulous diathesis is characterised, it is regarded as the constitutional state in which true tuberculosis is most likely to occur. My own observation would not enable me to agree in this latter view. These statements necessitate a considerable addition to the list of those who are hereditarily liable to tubercle in the old-fashioned sense of the term. But it must be remarked that catarrhal pneumonia and scrofulosis can be more efficiently guarded against, by attention to climate, soil, etc., and more successfully treated, than truly tubercular disease. My colleague, Dr. C. Theodore Williams, the latest authority on the question of hereditary predisposition to consumption (in the question of heredulary predisposition to consumption (in its broad sense), in a paper read before the Medical and the thread the many propertion in which, out of 1000 carefully noted cases, family prepertion in which, out of 1000 carefully noted cases, family predisposition condit betraced, using the term "family" to include brothlers and sisters and first cousins. It thus appears that, even making every allowance for alterations in terms and views, fewer people did of hereditary consumption now than formerly. It may be, of course, that readitional opinion has simply been erroneous in regarding consumption as so strongly hereditary, but it is perhaps nearer the truth to say that under the influence of superior hygienic circumstances, since Sanitary Science has been so much popularised, hereditary predisposition, as strong and real as ever, gets fewer opportunities

of being nursed by neglectful hygiene into confirmed disease. To return from this digression—perhaps a pardonable one, considering the importance of the subject and the convenience with which it is here introduced-there are yet a few words to be said respecting the mechanical effects of the respiratory movements of the chest walls upon the lungs and their investing pleura

In health, ordinary inspiration is a muscular act, by which the elasticity of the lungs is overcome, and their expansion is effected to a certain degree. Ordinary expiration, on the other effected to a certain angree. Ordinary expiration, on the other hand, is the clearite recoil of the lungs, bearing with it the chest parieties to a point beyond that to which their natural re-silience would bring then. There is, consequently, a resilient force in reserve, which goes to help muscular action in the first part of inspiration. It is easy to see how greatly this arrangement adds to the smoothness of the mechanism of respiration, the commencement of each act of which is normally almost wholly accomplished by elastic power. A glance at one dis-cased condition—emphysema—in which the elasticity of the lungs is impaired so that they do not contract to the normal extent in expiration, awakens our attention to the importance

of what may at first sight appeara trivial matter; the thoracic parietes in emphysema are not drawn in beyond their position or rest—i.e., that position which they would naturally attain on a free opening being made into the pleural cavity. The abrupt and jerking manner in which inspiration commences in cases of emphysems, being effected by a conscious, albeit an habitual, effort on the part of the sufferer, cannot be regarded without offending one's instinctive sense of mechanical per-But in cases of Phthisis we have to do with local. fection. rather than general, alterations in the pulmonary texture; diminution, rather than enlargement, of the space occupied by the lungs; increased local resistance to expansion, rather than diminished tendency to recoil; and the parts within the chest which are most affected by these causes are the pleura and the bronchial tubes.

Why is it that pleural adhesions are so common in chronic lung diseases, and especially in phthisis? The answer usually given is-Firstly, that inflammation of the lung is very apt to extend to the pleura; secondly, that tubercle is very prone to attack serous membranes, and tubercular pleurisy is conspicuously a dry adhesive pleurisy. Both these statements are doubtless true, so far as they go; but they are by no means sufficient to explain the frequent and inevitable pleurisies and local adhesions of Phthisis, and notably of those varietics of phthisis about which there is most dispute as to their having

anything to do with tubercle.

Confining our attention now to cases of Phthisis, though these observations are really applicable to other chronic pul-monary diseases, there are a few points worthy of remark concerning pleural adhesions.

1. They are pretty accurately limited to those portions of pleura corresponding with diseased lung beneath.

2. The more contractile the lung disease, and the tongher its texture, the thicker the plears covering it.

3. Post-mortem there is frequently to be found no tubercle at all in the adhesions, and still more frequently no tubercular granulations in the pleura immediately in the neighbourhood of the adhesions

4. In cases of very chronic phthisis (not secondary to pleurisy), with contraction and induration of part of one lung, we find post-mortem opposite the oldest part—e.g., the apex the two pleural layers perhaps intimately fused together, forming a white fibrous covering half or three-quarters of an inch in thickness. Lower down, however, we find the layers, each somewhat thickened, separated by a striated jelly-like material—odematous connective tissue—the fine strize of which pass vertically from one pleural surface to the other.

The real explanation of the recurring pleuritic pains and adhesions in cases of phthisis is, that when a portion of lung becomes damaged in toxture by disease it ceases to follow accurately the expansile movements of the chest-wall; a certain gliding or rubbing motion takes place between the two normally corresponding pleural layers at this point; friction, local pleuritis, and adhesion result.

We can readily understand, therefore, how it is that a friction sound is often the first evidence we get of local pulmonary disease, and that a new friction sound means most generally more than mere dry pleurisy: it means, in fact, an accession of lung disease. When the lung disease is of a very chronic, ung disease. When the lung disease is of a very chronic, indurative, contractile character, as in the cases referred to above in section 4, the effect of the continued inspiratory efforts to expand the toughened lung is to stretch out the almosions and to separate the pleural layers to a certain extent; the further contraction of the lung continues the process, so that the particuland viscous three-quarters of an inch. This space is at first filled the ground full efficient distalt in the machine of the acade-ice filled by across full efficiency distalt in the machine of the acadefirst filled by serous fluid effused into the meshes of the arcolar tissue of the stretched adhesions. We thus get the exdematous pleura. At a subsequent stage, however, of the disease, by the continued growth of the arcelar tissue, the whole space commune growth of the arotar tissue, the whole space becomes occupied by tough fibrous tissue, and the two layers become completely welded together into one uniform fibrous thickness. That this is the real history of the enormous thick-ening of the pleura in many cases of chronie phthisis I have satisfied myself by repeated observation. (4)

It has seemed to me that thickening of the pleura has been regarded too much in the light of a very dangerous pathological process, liable to extend into, and, by its contractile power, to squeeze out of existence, so to speak, the proper lung tissue, whereas it will be found on careful examination to be most generally a condition secondary and quite subsidiary to the lung disease. In primary picuritis the thickened plenra is produced in a different way. After absorption of the fluid a certain thickness of lymph often remains between the two layers of the pleura, into which the granulations from each surface penetrate, and finally unite, completing the adhesion. There are trate, and manily unite, completing the adhesion. There are many cases of phthisis of the pneumonic kind of tolerably acute progress, and attended with little contraction, in which, though the pleural surfaces are inflamed and covered with finely granular lymph, they do not become united. It is in

these cases that pneumothorax is especially likely to occur.

Bronchial dilatation (bronchiectasis) is another important morbid condition with which the chest movements have something to do. The main causes of brochiectasis may be summed up as follows:—1. Damage to the texture of the bronchial atrophy of mucous membrane and thickening of fibrous coat (Biermer).(c) 2. Increased air-pressure during cough, acting principally at those portions of the lungs where there is least support, notably the apices. 3. The expansion of the chest wall, or rather the struggle to expand it failing to affect the air cells, which are obliterated by disease, acts indirectly upon the bronchial tubes. 4. The diseased lung (in its contractile forms) contracting in various directions tends to widen the imbedded bronchial tubes.

The constant movement of the lungs no doubt goes far to modify and hasten the progress of morbid processes going on within them. This must have occurred to the minds of many Physicians, and even more forcibly to Surgeons, who have to deal with wounds of the lung. Practical difficulties and the prejudices of patients against any mechanical appliances have, however, prevented the principle of rest from having been hitherto fairly tested in pulmonary phthisis, even when

I have now passed in brief, and I fear very imperfect, review some of the main points in the pathology of phthisis which have a direct clinical bearing, and a due appreciation of which will, I think, materially assist in the correct reading of the cases as they appear before us in the subsequent papers.

(To be continued.)

ON SPECTRUM ANALYSIS OF BLOOD-STAINS.

By H. C. SORBY, F.R.S., etc.

THE Lancet of May 20 (page 983) contains an article on the above-named subject, the whole bearing of which is to the effect that this method of analysis cannot be relief upon in such inquiries. Now, I think myself entitled to express a very decided opinion on the subject. I have for some years devoted the greater part of my time to investigations by means of the spectrum microscope, have examined many hundred different spectra, and seen those of the colouring matter of blood, and of the various compounds derived from it, times without number, and all that I can say is, that as my experience has increased, so much more has increased my conexperience has increased, so much more has increased my con-indeace in the recognition of blood by this method. Of course, indeace in the recognition of blood by this method. Of course, anyone known of the contract of the contract of the contract of the poissons. I must be particular for saying that I can only explain the remark in the Lancet by supposing that the writer is not conversant with the subject; for how otherwise could he say that "no discovery has yet been made by means of those [alcorption] spectra," when so much light has been thrown on the behaviour of blood in presence of oxygen and other gases, and when there have been discovered in some of the lower animals other substances than hæmoglobin, having similar properties, and supplying its place, besides some hundreds of properties, and supplying its place, besides some hundreds of different colouring matters in animals and plants, which could not have been studied in any other manner? Moreover, it appears to me that, if the writer ever saw the spectra of blood, it must have been under most unfavourable circumstances; he It must have been under most antavourable circumstances; he must have scanniced a bod preparation, with an unautiable must have scanniced a bod preparation, with an unautiable stand how he could say that "all that is to be observed is a little diamess here and there in the spectrum. The dim spaces, which are not sharply bounded, have been dignified with the name of 'absorption-bands'. Now, I could undertake to show the writer in a few minutes that the absorption bands seen in the spectra of oxidised hemoglobin, and deoxidised hematin, instead of being a mere "dimness," are as black and distinct as could be desired. He would see that they are as well

(e) "Krankheiten der Bronch'en und des Lungen-Parenchyms : Handbuch der specialien l'athologie," Vinchow,

defined as if we had a piece of rainbow upon paper, and had marked bands in it with the blackest ink. I willingly admit that, in the case of some substances, absorption-bands are indeed faint, or quite absent; but that fact, amongst many others, only serves to distinguish them still more certainly from

My general conclusion is that it is the fault of the to recognise a blood-stain containing only the hundredth of a grain of blood, and if he do not easily recognise one that has been kept dry even for a world of the experimenter himself, if, except in a few special cases, he fail

een kept dry even for a period of fifty years.

For a description of the method to be employed in various For a description of the method to be employed in various cases, I refer to my paper on this subject is Guy's Hospital Reports, Third Series, vol. xv., 1870. p. 274; and to Dr. Letheby's paper in the third volume of the London Hospital Reports. Of course I do not pretend to say that human blood can be thus distilinguished from the blood of other animals, but I unhesitatingly say that we can distinguish blood from all other animal and vegetable colouring matters.

NOTE ON THE LOCAL USE OF PEPSINE

By H. S. PURDON, M.D.,

Physician to the Belfast General Hospital and to the Hospital for Diseases of the Skin.

I have only materials for a few brief notes on the local use of pepsine. Dr. Ball, of this town, in your issue of April 29, 1871, anticipates me by mentioning that the hypodermic use of 1871, anticipates me by mentioning that one uppotermits once uppotermits on own undergoing a trial at my Hospital for Diseases of the Skin. However, he is quite right about the solution being thick and troublesome, and I would be glad to have a good formula for injecting purposes. The liquor pepsians made good formula for injecting purposes. The liquor pepsine made by Hamilton, Long, and Co., of Dublin, seems to be a clear fluid, by Hamilton, Long, and Co., of Dublin, seems to be a clear fluid, but is a rather thick, from the glycevine, I imagine, that is constituted in the constitution of popular conductions and the constitution of popular, one drachm will, with fattern draps of dilute hydrochloric acid and one connec of water, disorder 700 grains of fibrine at a temperature of 100° Fahr. If pepsine will perform this before our eyes, why should not

its injection do so likewise, to be especially useful for its solvent properties on enlarged glands, tumours, etc.? Nor do I believe that the presence of hydrochloric acid in the fluid is necessary. The acid causes smarting, and some people will not submit to a repetition of the injection. The ordinary hypodermic syringe

is the instrument used.

is the instrument used.

Professor Horsdroff (see Dr. Dobell's "Reports," vol. ii.)
states that the source of free hydrochloric acid in the gastric
have the property of furnishing acid phosphates in solution
under pressure "anch as may attend engagement in the
walls of the stomesh." The Frofessor believes that the reaction of acid phosphates on alkaline chlorides sets free hydrochloric acid. He says, "Let us glancest what takes place, asthe acid fluid enters the gastric tubules. They are surrounded by a mixture of hydrochloric acid, acid salts, neutral salts, and albuminoid bodies. Dialysis must be repeated, and a stronger acid solution pass into the sacs or cells contained in them. The sacs swell by endosmosis and, corroded by the acid, at length burst, and the liquid contents, together with the disintegrated and partially digested membrane of the sac, pass out into the stomach, to assist the liquefaction of the food.

The lymph glands, especially in strumous people, well observed in children, produce an excessive accumulation of cells upon inflammatory irritation, often caused by exposure to cold. Now, it is not unreasonable to imagine that by injecting pepsine into these cheesy deposits or infiltrations in strumous glands, so common in the neck, or even into small tumours, or probably into even cancerous growths, which structures are so plentifully supplied with bloodvessels, a process of digestion ensues, and the liquefied contents are absorbed. As yet I cannot speak dogmatically on the subject, as my cases are not numerous, and those that have been selected for exare non-numerous, and none that have been selected for ex-periment are chronic, greatly enlarged, hard to the touch, etc. If the pain of the puncture be complained of, the ether spray can be used to deaden the sensibility, and if much bleeding ensues, styptic colloid effectually stops it. We must, of course, be careful to avoid all bloodvessels. I look on the remedy and method of treatment proposed in a favorable light, as I have for some years tried various medicines in the class of complaints proposed to be treated by local use of pepsine—as iodine, painted on the part and injected into the enlargements, blisters, ointments, ice, pressure with shot, and blister near the swollen gland, as recommended by Mr. Jordan, etc. After all, constant poulticing and incision is as successful. To avoid a mark a leech is sometimes applied, and through its bite a fine puncture This plan is useful when the gland has suppurated.

It is considered by pathologists to be a fact that we can have no inflammation without bloodvessels, hyperæmia and active congestion of the vessels by detention of the blood in the part forming, according to some, the first stage. If the process proceeds still further, there is an exudation which contains a large proportion of fibrine—a substance especially contains a large proportion of norme—a astesiane e-speciary acted on by pepsine. This fibrinous exculation has a tendency to become organized, or it may, after some time, undergo cheesy degeneration, soften and suppurate, more expecially when the tiestes are not able to assimilate and incorporate hieronased amount of fibrine. No doubt certain distheses, as struma, for instance, modify these conditions of tissue when attacked by inflammation.

With regard to pepsine, Dr. Garrod observes that the beneficial action of pepsine is very difficult to explain, seeing that the ordinary dose of the drug is able to cause the solution of only a small quantity of nitrogenised matter out of the body.

According to Carpenter the action of pepsine is merely catalytic.

Pepsine is soluble in water to a certain extent, more so when Pepsino is somile in water to a certain extent, more so when pure and inadulterated with starch. A temperature of 120° Fahr. destroys its solvent powers; probably lactic acid would be better than hydrochloric. The pepsina porci intro-duced by Dr. L. Beale is a much better preparation, but more

As I cannot speak as yet with any degree of certainty on the local use of pepsine in the diseases indicated, I merely put together the above suggestions for the purpose of inducing others to try this remedy, when, if successful, I have no doubt that they will publish the results obtained.

Beliast.

EXTERNAL EXAMINATION A PREVENTIVE OF PUERPERAL FEVER.

By. T. HALBERTSMA.

Professor of Gynsecology at the University of Utrecht.

Thereon in obstetries internal manipulations have of late been gradually superseded by external ones—after the method of Braxten Hicks and of Kresseller, for instance—yet in managing natural labour with the aid which is most required, external examination has remained a mere accessory. Not a labour takes place in which internal examination does not constantly recur.

It has now been proved, however, that internal examination may generate infection. I therefore beg leave to suggest that, in cases where—as so often in lying-in Hospitals—there is danger of infection from the acconcheur, the external examination should be the rule, the internal one the exception, By external examination alone we can, in most cases, ascertain the position of the child, whether it has sunk deep into the pelva, and by auscultation whether there is danger for the child. If the head is sunk deep, and the pulsation of the fotal heart normal, we have reason to anticipate a favourable issue, and for the time should do nothing but leave Nature to her own course. We shall, in this way, not be able so well to ascertain whether the delivery is proceeding; we shall be still less able than by internal investigation to predict in some measure how long the labour will last; yet the nature of the pains, the flow of the liquor amnii, are some indications. desire to ascertain how it is proceeding is not to be thought of if desire to ascertain now it is proceeding is not to be assigned in there be any risk of infection. In two cases I have refrained from internal examination. To suppress curiosity was the greatest difficulty to be overcome. The placenta was removed by external pressure after the so-called method of Credé.

It may be objected that it will be difficult, even when we know the head is sunk deep, to diagnosticate a first or second position, or four for those who distinguish four positions. Besides that, the first and second position can often be diagnosticated by external investigation only; at all events, this know-lades will be disposed with it in the distinct of the diagnostic can be used to be distinguished by the diagnostic and the second position only; at all events, this know-lades will be disposed with it in factors and be successful. Jedge will be dispensed with if infection can be avoided.

I know not whether this method of guiding the labour was formerly practised, neither can I, having hitherto given it but few trials, say more in its favour or against it. I merely recommend it to be tried, and the results to be communicated to this periodical. The risk of infection will always be diminished by it.

It cannot be denied that the number of victims of puerperal

fever may decrease by this method of treatment. This method may likewise throw some light on the question as to whether the infection proceeds from the genital organs only, as has been maintained.

Utrecht.

TWO CASES OF HYDROPHOBIA. By SAMUEL DREW, M.D.

Case 1.—I was called, at 6.30 a.m., on June 17, 1870, to A. B., described to me as being "out of his mind." I found him tossing restlessly in hed, which he would have quitted, but was prevented by two neighbours, who were attending on him. He made frequent efforts to vomit, and occasionally hawked up with difficulty small quantities of a viscid fluid, the appearance of which seemed to much disgust him. Pulse 120; skin wet with perspiration; countenance very auxions and terror-Complaint was made of acute pain extending from stricken the left hand to the shoulder, and sometimes to the left temple, He was evidently very ill, but knew everything passing around His wise cementy very in, our snew everything passing around him. His hearing was preternaturally acute, as he heard con-versation going on in another room, which was totally in-andible to all other persons near him. No cause for his illness could be assigned by himself or his friends. He had been unwell and much depressed for a day or two, but had continued to work as usual. At two o'clock that morning he awoke his wife, complaining that he was very ill. She offered him some tea, which he flung from him, and threatened to kill her if she offered him drink again. She was terrified by his threats. He had persisted in swallowing nothing. He requested to speak with me alone, and then told me that the quested to speak with the atone, and then took me that the devil had appeared to him in the night, and ordered him to kill his wife and children; that he had got his razor to do this, but had delayed doing it. He still felt urged to kill them, and wished me to know, so as to guard against his doing so. There was no trembling of the hands, and I was assured that he was a sober man usually, and was not suspected of drunkenness. The bedroom being very hot and close, I requested that a window might be opened, but was told that it was purposely closed, as, if the draught blew on him, it caused convulsions. This led me to suspect that the case was one of hydrophobia, and I asked if he had ever been wounded in any way, or ever been bitten by a dog. Ho replied, "Never, never"; repeating it frequently. Ou examining the painful limb, I found on the back of the hand two scars, from which hint). I found on the back of the half two scars, from which the pain appeared to dart up the arm. When questioned, he reluctantly admitted that many months before he had been bitten by a strange dog, which he met when walking one evening, and which bit his hand and ran off. He appeared not to attach much importance to my question, and I (to him) laid no stress on it, although I no longer felt any doubt as to his malady. With much difficulty he swallowed some opium as a pill, refusing any drink with it. On my urging him to drink some water, he said that he did not like the look of it, but would try. By a strong effort he poured a teaspoonful into his mouth, but was unable to swallow it, spasm of the glottia his mouth, but was unable to swallow it, spasm of the glottis ensuing and nearly strangling him. I now left him. On visiting again, about noon, i found he had become very the strangling of the strangling of the strangling of the As soon as he saw me he shouted. "I've been bitten by a mad dog, and shall die; you knew it all the time, and so did I. I knew all about it." I remained with him but a short time; but, after fetching from my own house (at some distance) a syringe to inject morphia hypodermically, returned about three o'clock, and found he had just died. From a person who was with him when bitten, I ascertained that eight months had passed between the time of the bito and that of death; and also that the bite was a severe ope, and inflicted in a very suspicious way. I should also add that A. B. was one of a family tainted with insanity, his father having been many years

Duration of Cause of Death .- Bite of rabid dog, eight months; hydrophobia, first stage, forty-four hours; second stage, thirteen hours.

Case 2.—C. D., aged nearly 4 years, was brought to me in October last, having been recently bitten on the face and neck by a dog. In reply to my questions, the child's mother told me that the dog was known, and was thought to be free from me that the dog was known, and was thought to be free from disease. The wounds were, therefore, treated simply, and very soon healed, being only slight. On November 71 was requested to visit a child which had been unwell about two days, and which obstinately refused to eat or drink. I found the child,

which I did not at first recognise, suffering from acute pain in the face and head, sleeplessness, and vomiting; it clung almost convulsively to its mother, burying its face in her dress. On getting the child to turn towards me, I was startled by its horror-struck aspect, so much resembling the look of the former patient, A. B., that I at once said to the mother, "Has this child ever been bitten by a dog?" I was then informed that I was then informed that been made as to the dog which was supposed to have inflicted the bits. The child had been really bitten by a strange dog, which, after making an attack on the child, had immediately which, after making an attack on the chind, had inflamediately run off and could not be traced. On asking the child to drink a little water it seemed terrified, and again hid its face in its mother's dress, exclaiming, "It will choke me! It will choke me!" Nothing would induce it to drink. The vomiting was gradually replaced by hawking and spitting, and towards evening the child lawexhausted, in a half-unconscious state, with frothy saliva constantly draining from the mouth, and with occasional attacks of eclampsia, induced by any sudden motion or sound. In one of these attacks it dled in course of

Duration of Causes of Death .- Bite of rabid dog, four weeks; hydrophobia, sixty-seven hours; eclampsia (occasional), twelve

I would remark that in both these cases acute pain was experienced in the part originally injured. Chapeltown, Sheffield.

OPERATION FOR CLOSURE OF A LARGE FISSURE IN THE UPPER EYELID.

By Surgeon PARTRIDGE, Bombay Army Presidency Surgeon, Third District, etc.

THE following operation has proved, in my hands, quite successful. As it is, as far as I am aware, new, I venture to describe it:—

A man came lately under my care with a large fissure of the and can be lately under my care with a large insure of the apper cyclic of the right eye. If a state that he had been per cyclic of the right eye. If a state that he had been but a portion of the cartilage had been removed, and an unsightly aga premiance. Nothing had been done to remedy the deformity. On examining the parts with a view to opera-tion, I saw at once that the ordinary operation of paring the non, I saw at once that the ordinary operation of paring the edges and bringing the sides of the gap together by auture would, if union resulted (and this was doubtful, on account of the tension), leave an edge with a central depression. I ac-cordingly perforated the eyelld with a finely-pointed knife, and made as incision parallel with the margin of the fissure. I next drew down the released portion of skin, until it was in a line with the edge of the lid. The raw edges of the fissure were then brought together by means of a single horsehair ligature. This step, of course, somewhat threw the strip of skin into and a sep, or course, somewhat threw the strip of skin into folds; but, by a little careful adjusting, it was made to form again a sufficiently straight line. The eye was then closed; a piece of thin guttapercha, covered by a pad of cotton-wool and a bandage, was applied for three days, when all dressing and the ligature were taken away, and styptic colloid substi-tuted. In a day or two more there was scarcely a trace of any succi. If n day or two more there was scarcely a trace of any operation, and the object aimed at-vis, a margin without a degression—attained. The appearance of the eye, with the exception of there being no eyelashes at the seat of injury, is now nearly as perfect as the other.

THE MAYONS OF STRABURG AND METZ.—It is a remarkable circumstance that both these cities had Modical men as their last mayors—viz., M. Küss, of Straburg, whose death, supposed in a great measure to be due fo his distress of mind, created so wide a feeling of sympathy; and M. Marcchal, of Metz, who also died abortly after the surrender of the town, universally deplored by his fellow-citizens,

RAW BEEF IN ANAMIA .- According to Dr. Balev. of HAW BEEF IN ANEMA.—According to Dr. Baley, of Albany, no remote ye speedily relieves this condition in young girls verging on womanhood. When they will not take it raw giring it them very underdone has proved of good service. If in tardy menstruation it be used as diet, and the meals taken regularly, together with plenty of exercise in the open air, far hore good will be done than by the administration of ferruginous medicines.—And. Revery, May 19.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

THE LONDON HOSPITAL.

THROMBOSIS OF RIGHT ILIAC VEIN-EMBOLISM OF PULMONARY ARTERY-SUDDEN DEATH. (Under the care of Dr. RAMSKILL.)

[Reported by Mr. STEPHEN MAGRESSIE, Resident Medical Officer.] Joseph A., aged 35, bricklayer, admitted March 25, 1871. When seen on the evening of admission, he stated that about When seen on the evening of admission, he stated that about a month previously he had cryspicals, but of what part of body far not ascertor, the state of the state of the state of the colour of porter. He now had slight general ansarce, his face was pale, and his breathing somewhat quick. The whole of the right leg was swellen, and pitted deeply on pressure. The left leg was slightly cedematous. His breath smelt offensively, and he said he had "diseased bone in his nose." His urine was smoky. Amongst other medicines, he was ordered to take pulv. jalapse co. 3ss. the first thing in the morning.

On the morning following his admission, at about half-pas On the morning following his admission, at about half-past seven, when out on the night-stool, he suddenly complained of pain and tightness across the cheet. He was assisted into bed, when he romited. This did not alarn the nurse, as she was she "has often seen patients as bad after taking jalap." His breating, however, became accessively difficult, and the pain arrows his chest more intense. He asked for "the Doctor" to be sent for. By the time Mr. Alackensize arrived, life was practiced to the part of the property of t tically extinct, and the patient only gasped twice in his pre-sence. His face and lips were pale, and he was bathed in sweat. The time from his seizure to his death was little more than ten minutes.

The autopsy was made on the following day, by Dr. Sntton, and his report is condensed below.

The body well-developed and fairly nourished; the right ieg ociematous and larger than the left; the left leg very slightly odematous. At the root of the right lung was solid mass, about an inch square, and over it was a little recent pleuriey and a few ecchymoses. This solid mass was of a blackish-red colour, and sank in water; it was soft, circum-scribed, and easily broken down. The remaining parts of the lung-substance were congested, and in some situations odematous. The pulmonary artery, where given off from the right ventricle, contained a partly decolorised clot, and in both lungs Ventrues, contained a party decorated eva-the branches of this artery were completely plugged by close extending down into their minute ramifications. The close were decolorised, and of a pale greyish appearance on one side, and dark or ruddy red on the other side. Evidently the red corpuseles had gravitated, leaving the congulated fibrine white in places. In no spot was the clot completely decolorised. The heart and liver were normal, the spleen soft, and the kidneys presented rather an anomalous appearance, making it difficult to say whether there was or was not acute nephritis. The right iliae vein was completely plugged with a semi-adherent and partially decolorised clot. The left iliae vein was free. The sorts did not contain any large clot.

UNIVERSITY COLLEGE HOSPITAL.

FRACTURE OF NASAL BONES AND INJURY TO BRAIN FROM THE KICK OF A HORSE-RECOVERY. (Under the care of Mr. ERICHSEN.)

James T., an ostler, aged 51, was admitted on April 20, 1871, with the following history:—The man was in the habit of drinking freely, although rarely seen actually drunk. On the morning of the accident he entered the stable behind a big horse, and the animal unexpectedly kicked out, struck him in the face, and knocked him backwards, his head coming sharply against the brick floor of the stable. The man being inensible, he was taken at once to the nearest Hospital, but was refused admittance. On his continuing insensible, how-

was refused admittance. On his continuous insensators, nov-ever, and beginning to struggle, he was brought on to Uni-versity College Hospital at noon.

When admitted, he had railled somewhat, and the following note was taken by Mr. Curtis, the ward cierk :—"The patient is not totally insensible. When shouted at loudly he opean his eyes, but does not spook. He lies on his back or side, breathing

noisily, but not stertorously. There is a small contused wound on the bridge of the nose close to the right eye, and another on the ohin. The right side of the face is much swollen, and there is coshymosis of the right cyclid, which extends under the conjunetiva. There are no signs of any blow having been given on the left side of the face, yet there is ecchymosis of the left cyclid. The wound on the nose is found, on further examination, to perforate the cavity, smashing the nasal bone into small fragperforate the cavity, smashing the massl bone into small frag-ments. There is constant cosing of blood from the notetia. On the back of the bead is a large contusion on the right side of the ecopyar. His pulse is 60, moderately full and slow; pupils contended and equal, and there is no paralysis of face or limbs." The bleeding from the nose lasted until fact in the afternoon, and towards evening he vomited some blood. Soon after stimiselon the nan was convalied during som minutes, the face and arms twiteining, and the pupils widely diluted and insen-dible to light; and shortly afferwards to be some excessively violent, rolling about in bed, and striking out wildly with his sums and legs, so that it was necessary to put upon him a strait-jacket, and to tie down his legs. These restraints were removed in two hours, as the struggling passed off, and an ice-bag was applied to the head. As he refused to take five grains of calomel, a drop of croton oil was administered, and for the of eslowed, a drop of croton oil was administered, and for the rast of the day he was moderately quiet, although only par-thally conscious and very restless. He continued in a fairly quiet, though restless condition, for the next two days, as econd does of calonal effectually purging him; but towards the even-ing of the third day (April 21) he began to be again very rest-ing of the third day (April 21), he began to be again very rest-nation of the day of the day of the day of the day of the part of the day of the day of the day of the day of the sale twine is occount of the day of the day of the day of the day twine is occount of held, falling will it and incoherentia all pilling off the cressing from the wound in the face, and continu-dally trying to get out of bed, taking wildly and incoherently all still trying to get out of bed, taking wildly and incoherently all but made a great noise, and get out of bed to get his tronsers, threatening the nurse with violence when restrained from wandering about the ward. The House-Surgeon then again put on the strait-jacket, and so kept him in bed. But, although put on the strait-jacket, and so kept him in bed. But, although so prevented from getting about, the same noisy violence con-tinued, with some heat of head, flushed face, and hard pulse of 75 to 88, until four o'clock next afternoon, when twelve ounces of blood were taken from the arm. After this he was much quieter and went to aleep, and slept off and on through the following day with intervals of rational quiet. For the next few days he remained in about the same state, talking volubly, but rationally and quietly, although he did not know where our rationally sad quietly, although he did not know where he was, and was constantly molecouring to find his clothes to pulse was 60, and soft. After this his symptoms changed somewhat. On May 2 the following note was made:—"When asked where the secident occurred, the patient replies 'Wick-field, near Windsor,' and has maintained this for two or three field, near Windsor, and has maintained this for two or three He states sometimes that a blow on the arm was done by the horse, but the wound on the nose was caused by some man letting something fall on his face. At other times he states that he received the wounds in a drunken row or a fight. He sometime reads, or appears to read, the paper, saying, however, that he merely looks at a little bit here and there, and he does not remember what he reads. On reading aloud about the war in France, he did not seem to know any-thing about it." At any time a leading question or two would elicit a contradictory account of the accident. He would constantly ask to go out, or to go to work, and was very anxious to be shaved. On May 8, as he seemed more rational and in good general health, he was allowed to dress and walk about

the ward.

By May 11 he appeared to have quite regained his senses.

He told his dresser all about the accident, where and how it happened, and so on, but he was in a state of confused uncertainty as to how he had passed the subsequent period, of his accident momentum having given many false accounts of his accident.

On May 15 he left the Hospital, well.

THE MIDDLESEX HOSPITAL.

MEDULLARY CANCER OF THE BREAST-AMPUTA-TION OF THE BREAST-RECOVERY. (Under the care of Mr. NUNN.)

Many Jane. M., a married woman, aged 30, was admitted into Resent Ward, under Mr. Nun's care, on March 21, 1871, suffering from a large tumour of the breast. She was a stout, healthy-looking woman, with a plentiful development of adipose theme, and complained of little more than the size of the tumour. although at times it was the seat of some darting pain. The blirt breast was very weighty and much enlarged—the size of a large melon. The whole gland seemed to be converted into a firm tumour, over which the skin, ordenatous and tightly stretched, could not be pinched up. There seemed, however, to be no adhesion of the breast to the much beneath, and, in spite of an enlarged and somewhat indurated gland in the azilla, the general appearance of the tumour was suggestive of cystic rather than of cancerous disease. Thus, in the centre of the mass the skin was budging thinned, discoloured, and mipple was not notably retracted, although, from the swelling of the surrounding skin; it was depressed below the surface; and the plump condition of the woman favoured the idea of the non-cancerous asture of the case.

the non-canoerous nature of the case. Her general health had always been good. Two and a half years proviously she had received a blow on the left breast, which he remembered, but which had caused her little pain either at the time or soon afterwards; but ten months ago she noticed a small timour, the size of a walbut, situated at the inner side of the left nipple, and with the state of the left nipple and the size of the left nipple and the latter was a big as an orange. During the last four months later was as big as an orange. During the last four months it had grown ever prajilly, involving the whole breast, and causing a sinking of the nipple, and at the same time the woman had noticed a "kernell in the armptit."

On March 22, chloroform was given, and Mr. Nunn excised the whole breast with the nipple and must surrounding sinc. The growth was freely supplied by large bloodressels, and the free harmorthage eccasioned amon trouble. All the reseals were ticd, a galvanic cantery-wire proving useless for the arrest of the bleeding, and some thickened and adherent underlying muscle was also removed. The woman made a good recovery from the operation.

large cavity was found to eccupy the central portion, and to extend towards the discoloured budging point on the surface. This cavity was count to eccupy the central portion, and to extend towards the discoloured budging point on the surface. This cavity was converted into a cyst by the condensed tumour-substance about it, but had no distinct lining membrane. It contained some ragged, villous-like, chooside-coloured projections from its walls, which proved to be debris of old-blood clot, and much grammous brownish fluid. There were no other cavities in the tum discolour clots of the cavities in the tum discolour colours and much grammous brownish fluid. There were no other cavities in the tum discolour colour cavities in the tum discolour cavities. For the rest the tumour was of fleshy consistence, of pink-white colour, save where mottled with various lines by altered blood, and yielded an abundant thick milky juice on accepting. Examined microscopically, the structure was found to be that of true canoes anatomically defined, but with a very scanty development of fibrous stroms. The cells which made up the great mass of the property of the colour cavities of the cavities of the colour cavities of the cavities of

YORK COUNTY HOSPITAL.

REMARKABLE TUMOUR OF THIGH.

(Under the care of Mr. HUSBAND.)

G. E., aged 55, a labourer, from Rosedale, near York, was admitted into the County Ropistal, October 13, 1870, with a large pendulous tumour, hanging from the upper part of right high. The patient says that he first noticed it as a small hard lump, the size of a marble, about nine years ago, and since that time it has gredually increased in size. A bout a week ago it burst behind, and discharged a quantity of whitish matter. Hail never hard any pain in the tumour itself of the size of the first high size of the size

small pedicle three inches in diameter. The greatest length of tumour is eleven inches, and greatest circumference twenty; its probable weight seven pounds. The integument of the thigh is continuous over it, and is scarcely anywhere adherent.



In the skin over the neck coarse, large, tortuous veins, and in the neck itself vessels, can be felt pulsating. The tumour throughout appears to be composed of masses, except at the appear and posterior part, where it is soft and semi-fluctuating; and it was in this position the skin gave way, and where there now is a superficial later, but presenting no special characters. The masses appear for the most part to be quite distinct from The masses appear for the most part to be quite distinct stand each other, vary in size, and some are harder than others. There is one in particular in the anterior part of the tumour; it is quite as hard as scirrbus, and presents the following characters: It is about the size of a hen's egg, of irregular shape, quite loose, and the fingers can be passed almost completely round it; on very firm pressure it can be indented, and sharp angles can be broken off. It gives one the idea of a chalky mass.

On October 20, Mr. Husband removed the tumour, first dissecting back some skin, and passing a ligature round the neck. The man recovered without a bad symptom, and left the Hospital cured.

On section, the tamonr was found to be a fatty one, the hard nasses consisting of condensed adipose tissue, surrounded and intersected with cretaceous laminæ. In some places the chalky deposit was as hard as, and appeared to be, bone; but, on microscopic examination, no true osseous structure could be discovered.

INTRACAPSULAR FRACTURE OF THE NECK OF THE FEMUR-RESULT GOOD. (Under the care of Mr. HUSBAND.)

A raiway porter, a strong and healthy-looking man, aged 28, was admitted, on the ovening of February 1, with the above injury. He gave the following history of his accident:—He was on a ladder, a few feet only from the ground, engaged loading a railway-wagnon, when he slipped and, falling, alighted on his feet. Finding he could not move his lett leg, he was brought at once to the Hospital. On example, the slipped and the slipp mination, the following symptoms presented themselves:-From one-half to three-quarters of an inch shortening, (a) From one-hait to three-quarters of an inch shortening, which, by extension, when the patient was fully under chlorosteries, and the patient was fully under chlorosteries. (b) Culty partial loss of power over the limb. (d). A sense of fulness in the natural hollow behind the great trochanter, which became more marked on manipulation. (c). Occasional crepitation could be elicited. The case was (c). Occasional crepitation could be cliented. The case was treated at first with the long splint, and after with a weight attached to the foot. On leaving the Hospital, some three months after his admission, there still remained sight shorten-ing of the limb—about three-eighths of an inch. The patient could walk well, and seemed to have any amount of power over his hip-joint. Some stiffness remaining in his knee was his only cause for anxiety.

SCIRRHUS OF THE RECTUM.

(Under the care of Mr. HUSBAND.)

C. B., aged 21, a painter by trade, was admitted into the (a) The measurements were accurately observed, Hutchinson's measuring-rule being employed.

York County Hospital, April 27. He gave the following history: -First felt a twitching pain in his bowel last Christmas, but did not take much notice of it, thinking it would leave him in course of time. He also suffered slightly from constipation, and before he could evacuate any fiscal matter had to strain considerably, when blood in addition to freces passed. The evacuations were made up of small pieces the size of filberts. Since this time has always passed more or less blood with his motions; about a month ago blood and corrup-tion daily escaped from him in large quantities. His mother tion daily escaped from him in large quantities. His mother did of of the bowel complaint; she lost blood and screamed terribly whenever at stool in her latter days. He looks cachectic, wasted, and weak. He can scarcely wait. On canadiant of the weak of the state of indurated tissue are felt. They commence about two inches from the external sphincter, and the tip of the finger can with difficulty be just got through them. The examination causes great pain. As there was an acknowledged and well-marked record of the state freely.

May 10 .- Never has any action of the bowels without some urgative drug, and when under the influence of the medicine fluid feecal matter and congealed blood are constantly running from him. Suffers great pain along the course of the right sciatic nerve as well as in the calf of the same leg; cannot lie on his right side at all.

24th. — Since admission, the hard masses have greatly increased and become absolutely immovable. They now extend as low down as almost immediately within the anus, and the finger can by no means be got through them. Is weaker and thinner, in spite of a liberal diet. As no hopes could be given him of recovery he left the Hospital to live at home.

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Medical Times and Gazette.

SATURDAY, JUNE 10, 1871.

DR. SANDERSON ON THE PROCESS OF INFLAMMATION.

Last week we considered the initiatory steps in the inflammatory process following on the application of an irritant to a transparent tissue. These were the gradual changes in the blood-stream terminating in stasis, the migration of leucocytes from the interior of the vessel to the extravascular tissues, and the soaking of these tissues by an excessive discharge of liquor sanguinis. From this point we recommence our account, and must now endeavour to obtain a proper understanding of what takes place beyond the vessels' walls, which on all hands is conceded to be intimately connected with, if not actually and entirely dependent on, the leakage of liquor

The changes which inaugurate inflammatory action in a tissue itself are not by any means always identical; they may be best studied in a tissue supplied with blood from vessels at a distance-what are commonly called non-vascular tissues; and of these, for various reasons, none are better adapted for observation than the transparent tissue of the cornea. But it is also true that certain of the phenomena of inflammation in such a tissue are liable to a double interpretation, and have given rise to no little controversy between Colubeim and Stricker, with their respective followers. The living cornea in its normal condition is perfectly transparent, each of its elements refracting light in exactly the same measure as the others. After death, however, the relative transparency of its different constituents is altered, and so they become visible: its epithelial layers are seen distinct from its substance, and its substance is seen to be no longer homogeneous, but to contain a vast number of anastomosing channels, containing stellate masses of protoplasm. Irritation applied to the living cornea, according to Stricker, induces changes in these masses; their stellate projections are retracted, and in their interiors new bodies resembling leucocytes are abundantly formed, by their formation clouding the cornea and giving rise to the tangible signs, well known to all, of corneal inflammation. This view, therefore, implies the recognition of interstitial changes in the cornea itself, as the result of the stimulus applied to itin other words, that the normal corneal tissues are the immediate parents of some, at least, of the leucocytes which obscure or obliterate its transparency. But, on the other hand, it has been proved by Cohnheim that many of these leucocytes are emigrants from the marginal vessels; indeed, this observer would make emigration the sole source of these extravascular new productions. But, in the face of all the positively ascertained facts, this view can hardly be maintained. That a certain number of the accumulated leucocytes are emigrants from bloodyessels Cohnheim has conclusively shown, and in no way more satisfactorily than by the introduction of aniline or other pigment into the blood. Particles of this colouring agent are ingested by the white blood-corpuscles, which, reaching the margin of the cornea, pierce the walls of their containing vessels in such multitudes as to cause a distinct coloration of that portion of the irritated cornes nearest the nutrient vessels.

That, however, the vessels themselves and their contents are not the sols sources of pus coputeds, is even better shown by the changes observed in inflamed cartilage; for in cartilage solves we have no permeable channels, as in the corres, so that the cartilage corpucels or protoplasmic masses must be the parents of the mass of leuccytes which ultimately usury their places—that is, the pus must result from local changes, not from migrations from blood rescale.

With regard to inflammation of vascular tissues, certain very curious facts have been ascertained. Chief among these have been the results of observations made on the irritated tongue of the frog. In its tissues certain fixed bodies of peculiar shape, similar, apparently, in overy way to the gastionary corpuscies of connective tissue, have been observed for hours. Changes in their shape have been noted, but nothing like fission or any other mode of reproduction. Nevertheless, during the same period migratory corpuscies coming from the blood-reseable have had time to collect in enormous numbers. This would tend to show that in such tissues the earlier products of inflammation are derived directly from the blood rather than from hypernutrition of local protoplasting masses.

Of all tissues, it might have been supposed that the cpithelial would furnish the most striking illustrations of pus as the product of the cells themselves, and yet some very telling facts have been cellected by the followers of Cohnheim, which would tend to show that in many, if not in a majority, of instances, the layers of leucocytes so specially formed on an irritated epithelial surface are migratory bodies coming from the vessels ping just below the surface. Observations made, however, on epithelium at a distance from bloodvessels, as in the cornes, have shown that darker irritation the pytoplasmic contents of the epithelial cells may give rise to leucocytes, which have even been observed in the act of piercing the wall of the parent body. The observations on glandular inflammation are too vacue to be much trusted.

Let it be granted, then, that leucocytes, the products of irritation, have a twofold origin-vascular and extravascular-the essential changes are in all cases identical : not so the apparent results of irritation. Suppose heat be applied in excess to any part, it may produce instant death, or it may only vesicate. This vesication seems to imply instant stasis of the blood in the part to which the irritant is applied, with leaking of liquor sanguinis from the vessels there, and from those in their neighbourhood stimulated to excessive activity. In suppuration, on the other hand, we would seem to have a slower process, but one in which leucocytes are abundantly produced. Their accumulation in one spot, determined in some fashion by their amorboid qualities. coupled with liquefaction of the normal tissue of the part, gives rise to what we call an abscess; but why one irritant should give rise to an abscess and another to a blister, we cannot tell.

Finally, let us inquire into the nature of the stimulus which induces this uncommon nutritive activity in extravascular leucocytes or protoplasmic masses. Is the mere transudation of liquor sanguinis enough, or must we imagine some nerve stimulus, direct or reflex, as necessary? An experiment invented by Stricker satisfies our minds on this point. Having thoroughly inflamed the cornea of one eye in a frog, the other cornea is immediately excised, introduced beneath the membrana nictitans on the inflamed side, and fastened there. In twenty-four hours this cornea is removed, and is then found to present all the signs of corneal inflammation we have already enumerated. But to render the thing still less doubtful. other experiments may be made; thus, to show that this is no mere invasion of the transplanted eye by wandering lencocytes from the inflamed cornea, a frog similarly prepared may be experimented on, but with the excised corner divided into two portions. One portion having been killed by being introduced into water, the two are inserted into the inflamed eye whilst the other half is still alive. At the proper time, the two are examined-the dead cornea is found to be unaffected, the living cornea is in a state of inflammation. And yet, again, to show that irritation of the cornea is necessary before introducing the excised part, the experiment may be repeated without this autecedent precaution, and the cornea will be removed unchanged beyond what is necessary for an admirable demonstration of its structure. Thus we see that it is the liquor sunguinis which would seem to be the one requisite for inducing excessive nutrition in any part: it by no means follows that nerve force has no influence on inflammation, only that the process may go on without any such force being called into play.

These are the principal facts in this most important contribution to our knowledge of the most important of pathologic processes; but perhaps we had better give Dr. Sanderson's conclusions in his own language:—

"1. In every inflammation which attains its full development the changes which manifest themselves in the inflamed part are of three kinds distinguished from each other according to the organs which are concerned in their production. They'are either (1) effects of disorder of the vascular nerves and centre, (2) effects of attention of the properties of the living walls of the explikaries, or (3) effects of the stimulation of the living cells by transadation of liquor sanguinis.

2. Of these three orders of phenomena the second only can be regarded as aboutely essential to the existence of inflammation, which may, therefore, in the strictest sense, be said to have its seat in and about the veins and capillaries, it being there that the earliest and most constant effects of irritation or

injury manifest themselves.

"3. The nervous and vascular effects of local irritation cannot be directly described as successive stages of one process; for the determination of blood to the seat of injury, which is the sole result, and, if I may so speak, purpose of the, vaso-

motor disturbance, has no relation to the local vascular changes, excepting in so far as it tends to make the exudation more bundant. Exudation of liquor sanguinis, although favoured by increased arterial afflux, may occur without it, and, as a rule, ontinues after the afflux has ceased. The vascular and textural changes, on the contrary, may be regarded as successive stages of one process, for they are connected by a casual rela-tion—the exudation of liquor sanguinis, in which the former ends, being the determining cause of the latter.

"4. The mode in which an injury changes the living substance of the vascular walls, so as to make them permeable to the blood, is unknown. The nature of the change itself is also unknown, the only clue which we have to its character being that afforded by the structural alterations to which it ocing that shortest by the strength attenuous to some releast in certain organs, and particularly by those which are observed when the process of reparation, attended with the formation of new capillaries, is commencing. From these appearances we are led to infer that the primary change considerable of the control of the primary change considerable of the control sists in the transition of the material from the formed to the plastic condition; from a state in which it is resistant, because inactive, to one in which it is more living, and, therefore, more

" 5. In all living tissues the effect of inflammation manifests itself in a modification of the action and properties of individual cells. In cells which form part of permanent structures the protoplasm increases in quantity and becomes more or less contractile. Subsequently, it is converted entirely or partly into young cells, either by cleavage or by endogenous germi-

MORTALITY OF EUROPEAN TROOPS IN INDIA. AS INFLUENCED BY THE EARLY AGE OF RECEUTS AND THE

LENGTH OF SERVICE IN THAT COUNTRY. THE influence of the proposed short army-service system. according to which soldiers of three years' service may be permitted to volunteer for the reserve, taken in connexion with the early ages at which recruits are enlisted, was made the subject of some very judicious observations by Lord Sandhurst in the House of Lords on Monday night. He warned the Government that the result of such a system, if persevered in, will be, that all soldiers possessing skill and muscle being invited to quit the line, only ignorant striplings and men of bad charact r will be left behind. As a remedy, he suggested that 18 should be the age for recruiting for the Militia, and 20 for the Line; and that Militiamen above the age of 20 be invited to volunteer for the Line. The Duke of Cambridge, while expressing his complete concurrence in the principles advanced by Lord Sandhurst, pointed out that his arguments were more applicable to a conscript than to an enlisted army; that in this country men of 20 are generally settled down to some trade or calling, so that it is impossible to get men older than those at present callsted. We are happy to obs rve, from Lord Northbrook's remarks during the same d bate, that the importance of taking only men of full age for service in India has not escaped the notice of the Horse thards; and we hope that this attention may in future in-Cances prevent the recurrence of such results as have lately b en observed in the case of the 54th Regiment, which, as stated by the Duke of Richmond, quoting from a return laid on the table of the House of Commons, and signed by Sir Richard Aircy, being under orders to sail for India in O:tober next, has, in a total strength of 924 men, 472 who are under 20 years of nove.

The recently published Report of the Army Medical Department for 1869 contains some most valuable testimony from Sir T. Galbraith Logan, and Inspectors-General Muir and B atson, on the injurious results of sending immature lads for military service in India. As a few among the many instances of such results, Sir T. Galbraith Logan mentions that the 92nd Highlanders suffered from typhoid fever soon after reaching India. and that Deputy Inspector-General Munro chiefly attributes it to the immature age of the large proportion of the men among whom it prevailed. The great prevalence of malarious fever in the 21st Regiment, at Kurrachee, and the serious mortality in the 62nd Regiment, from cholcra, at Lucknow, are attributed to the same cause. Sir T. Galbraith Logan is fully of opinion that soldiers should not embark for service in India under 20 years of age, and that even immature men of that age should be held over for still longer. Inspector-General Dr. Muir, C.B., gives a table showing the very large number of men under 20 in four regiments lately sent out to India, and remarks that, as the Government of India is charged with the maintenance of Indian depots in England, it surely has a right to demand that no soldier be embarked for service in India who has not completed 20 years of age. Inspector-General Dr. Beatson, C.B., has expressed a similar opinion as the result of his Indian experience, and remarks that at first sight statistics do not appear to bear out the idea that the death-rate is greater among the younger men, as the percentage of deaths in India is considerably increased during each advancing quinquennial period, but that, by carefully comparing the statistics, according to age, among men up to 35 who have been the same length of time in Ludia, the fact of the greater mortality among those who arrive in that country as boys would probably he established. It is the length of service in India which, in Dr. Beatson's opinion, goes considerably to swell the mortality with each advancing period in life. So far as we are aware, no statistics of the nature suggested by Dr. Beatson have yet been arranged, but the point raised by him is worthy of the serious attention of the Government of India, particularly in its bearings on the question of the volunteering of soldiers from homeward-bound regiments to others arriving in India to relieve them. Dr. Bryden, in the Report of the Sanitary Commissioner with the Government of India for 1869, contrasting the mortality of married and unmarried soldiers, observes that the gradual increase of mortality with advancing age is shown by both classes; but, in the case of the married soldiers above 30, the increase of mortality during the three years from 1867 till 1869 was very disproportionate, and this he attributes to the deteriorated value of the lives of the old married Indian soldiers, who are in very many cases tied to the country by the fact of their being married. But these are the men who constitute the majority of volunteers from a regiment under orders for home to the one coming out to India. So that in immature lads and old soldiers diteriorated by length of service in India, we may recognise two of the chief elements of the high rate of mortality among European troops serving in that country. The injurious influences of length of service in India also furnish a strong argument against the re-establishment of the local European army.

EUTHANASIA CANNABINA: OR. MEDICO-LEGAL NOTES ON HANGING.

Monz than a year has elapsed since the Times, in describing the execution of a criminal in Maidstone Gaol, observed that "the adjustment of the rope was slow and bungling, and such as to show that Calcraft's age unfitted him for his occupation," and shortly afterwards a paragraph appeared in many of the newspapers, asserting, not only that Calcraft had resigned, but that there were nearly 150 candidates for the vacant office, out of which large number seven had been selected as specially eligible. Although this announcement was obviously premature, there can be no doubt that our veteran executioner must soon, under the pressure of advancing years, withdraw (we trust, with a good-service pension) into dignified retirement; when possibly, in his leisure, he may compile his autobiography, which, if we can judge from a letter of remonstrance which he lately addressed to the landlord of a Taunton tavern in reference to his bill, and which the landlord, in revenge, published, would be written in a most forcible and racy style, and would prove highly attractive to a large class of readers. We have personally no reason to object to Mr. Calcraft, and we do not wish to speak evil of dignitaries. It is to the present system of execution, not to the executioner, that we object. Can we not introduce a better system?

THE SMALL-POX EPIDEMIC.

A FURTHER decline in the small-pox mortality of the metropolis is announced by the Registrar-General. In the week ending the 3rd inst. the deaths amounted to 229. Of these, 28 belonged to the West districts, 82 to the North, 20 to the Central, 24 to the East, and 75 to the South. The reduction was, then, most considerable in the East-namely from 51 deaths to 24. In the West there was an increase from 21 to 28 deaths, and in the North an increase from 65 to 82. In the North districts there has been considerable weekly fluctuation, the numbers during the last five weeks having been 81, 64, 79, 65, 82. Comparing the small-pox mortality of London during the last four weeks with that during the four weeks previous, we find ground for hope that the epidemic has at last really begun to decline. In the four weeks ending May 6, 1090 deaths were registered, and in the four weeks ending June 3, 985. Making a similar comparison in respect of the five registration districts, we obtain the following numbers :-

Four weeks	ending	Four	weeks	ending

		-	 May 6.	June 3.
West di	stricts		109	88
North	11		299	290
Central	**		83	77
East	11		211	172
South	,,		1090	985

So that we may say fhat the decline has been generally observed throughout London, but that it has been very triding in the North. Indeed, it is some parts of the North and South which are the chief foci of small-pox at the present time. In the North it is St. Pancras; in the South it is Bermondey and Rattersen. The returns of the Association of Health Officers show that in St. Pancras no abstement at all has yet taken place, while the Registrar-General tells us that 43 of the 82 deaths from small-pox in the North districts belonged to St. Pancras. In Battersea, out of 29 deaths, 16 resulted from the same cause.

THE WEEK.

A MEMING of the Committee of the three English Corportions appointed to consider the scheme for a Coujoint Examining Board was held on Monday last at the Royal College of Surgeons. The scheme proposed by the Royal College of Physicians was under discussion. We hear that no definite result has yet been arrived at, and that the Committee will meet again at an early date.

We understand that Mr. Lane has decided not to offer himself, at the approaching election, for re-election into the Council of the College of Surgeons. That he would not again seek the honours and the toils of office was generally surmised when he declined the Vice-presidency. Since we last wrote we have heard that Mr. Barnard Holt has determined to become a candidate. Mr. Holt's well-earned and sustained reputation at the Westminster Hospital gives him a claim on the honours in the gift of his College, whether or not he succeed on the present occasion. For the three vacancies there are likely to be six candidates-Messra, Cock, Busk, Le. Gros Clark, T. Spencer Wells, Critchett, and Barnard Holt. Mr. Cock has certainly been a most valuable Councillor and President of the College, but his opponents may urge that he has already filled with the utmost credit the most honourable office in the Council, and that a retirement to make way for a junior would not, under the circumstances, be ungraceful. Messrs. Busk and Le Gros Clark should, in our opinion, both be again returned. Mr. Busk has not only the

claim of being a philosophical anatomist and Surgeon of no mean standing, but he has done such real and useful work whilst on the Council that his loss would be at the present time a very serious one to the College. Of the three new candidates, Mr. Spencer Wells has undoubtedly exceptional claims. Without detracting one jota from the merits of Messrs, Holt and Critchett, we may say that to have made such an operation as that of ovariotomy what it is, and to have saved by it a number of human live-, is a feat of Surgical genius, skill, and perseverance which it does not fall to the lot of many Surgeons to accomplish. It is alone enough to entitle a man to the highest honours and rewards of his Profession. Mr. Critchett is a first-rate oculist, and Mr. Barnard Holt a very ingenious, earoful, and painetaking Surgeon. We shall rejoice to see them both filling places in the Council of their College, but we think Mr. Wells has in the present election the more immediate claim.

The mode of election to Medical and Surgical offices in Hospitals is a matter in which reform is greatly needed. The mode of election by the votes of governors is bad in every respect. It does not insure the election of the best or always of a good candidate, it compels Professional men to stoop to all the arts of canvassing and tonting for votes, and it inflicts large pecuniary expenditure both on the successful and unsurcessful candidates. If the plan of election by a small committee of Medical and general supporters of the Hospital were sulstituted these scandals would be avoided, and the governors themselves would be relieved of the unpleasant task of choosing between Professional men of whose merits they are profoundly ignorant, except so far as they may have seen them represented by adulatory testimonials, which, in many cases, are proved by their extravagance to be untrustworthy. We are glad to see, therefore, that at the meeting of the Woeldy Board of St. Mary's Hospital, on Friday, the 16th, Colonel Crew will call the attention of the Board to the present system of election of Medical officers, as laid down in the laws of the Hospital, with a view to the alteration of those laws. We trust that Colonel Crew's motion will meet with the support of his colleagues.

The pleadings in the action against Miss Jex Blake for slander fully bore out the theory on which we accounted last week for the nominal damages of our farthing awarded by the jury to Mr. Craig, the pursuer. We said that the verdict was to be accounted for by the lenient view taken by the good felk of Edinburgh of he offence of drunkenness with which Miss. Jex Blake had charged Mr. Craig. We said this jocosely, but we are warranted by the Lord Advocate in repeating it in sober earnest. The Lord Advocate argued that it was no disgrace for a Medical student to be intoxicated, and, therefore, it did him no harm to say of him, however falsely, that he was intoxicated. We cannot subscribe to the Lord Advocate's view of the character of Medical students or of the vice of intoxication. Perhaps his intimacy with his own profession in Scotlandwhere we believe high jinks are not quite obsolete-has led him to form this estimate of the younger members of the Profession of Medicine. We are glad to see that the judge has certified that the pursuer brought the action in vindication of his character, and that, therefore, the verdict carried the expense of the process and trial. Mr. Craig has completely cleared himself of the charge brought against him by Miss Jex Blake, and, in doing so, has attained the object for which he went to law.

The foundation-stone of a new anatorium has been isld at Weston-super-Mare by the Karl of Carantron. The new Hospital is to be called the West of England Sanitorium. The inestitution was established in 1868 on the cottage Hopital principle. The committee have now obtained a freehold site near the sea, and they propose creening a building at the cost, including the land, of £11,000, or £120 per bed. The new sanatorium seems to be warmly supported by the Bishop of the dicesses and the neighbouring elegy; and gentry.

We are informed that the Hospital authorities of St. Mary's Hospital have determined to waive their share of the school fores, and that a part of the money thus saved to the school authorities is to be expended in providing a salary for a Medical tutor, who will give a large part of his time to the instruction of the students in the Hospital wards.

DR. LANKESTER ON THE EXTERMINATION OF SMALL-POX.

Dr. Lankester delivered an address before the Social Science Association on Monday evening, which was referred to the standing Committee for further consideration. The subject was the necessity for immediate legislative action for the suppression or small-pox. The measures which it was proposed to enforce were-the more complete and effective vaccination and revaccination of the population; the removal and isolation of small-pox patients; and the employment of Medical inspectors to superintend this removal and the complete disinfection or destruction of infected clothing or apartments. Most unfortunately there is one thing which legislation cannot effect, and that is the shaking of the population out of their stupid apathy and unconcern. It is of no use to set before them the waste of life and money caused by disease. It is true that a large mortality by some sudden blow is sometimes felt acutely. It seems shocking enough, for example, to hear of 100 lives lost in a colliery explosion, or 500 on board the Captain, or of some 2000 or 3000 soldiers in the second siege of Paris. But, at the average rate of 250 per week, we have lost 2000 by small-pox since Lady-day, whilst the expense of funerals, of nursing, of loss of work, and loss of custom amount to an untold sum, to say nothing of the griefs, sufferings, and disfigurement of the survivors and their families. But, in good truth, our enlightened public does not care a bit. Each individual trusts to his own good luck to escape, and is not too deeply moved by other people's misfortunes. As for the hopes that such a pitch of public virtue will be reached that people will denounce their own children or relatives, or allow them to be removed, or that a tailor or milliner would case to make clothes in the very room where a child may be lying ill with small-pox-we are not Utopians. Severe laws might only lead to more concealment and deceit than are practised at present. The only thing we see possible is to carry out vaccination as efficiently as we can; to multiply facilities for the disinfection of bedding and clothing; and to carry out the provisions of the Sanitary Act for the registration of honses let to more than one family. Meanwhile we must expect a wave of cholera or small-pox from time to time, and must be thankful that things are no worse.

REPORT OF SANITARY COMMISSION.

An important document, embodying the views of the Royal Sanitary Commission, as to the best machinery by which "constant and universal supervision of the essentials of public health "--viz., the food, the water, and the air of the peopleby competent persons can be efficiently and economically secured throughout the country, has just been made public. The document, entitled "Memoraudum on Medical Officers of Public Health," reiterates, in the first place, the unanimous opinion of the Commission, that "every question affecting public health should be brought into relation with one central office, presided over by a Minister," and goes on to point out that every district, in respect of its health, should be "as closely connected with the said department of health as is every part of the country with the Home Office, through the police and the magistrates, and as are the destitute with the Poorlaw Board, through the guardians, etc.," and that every person should "henceforward be entitled, in respect of his health, to such reasonable public protection as he is in respect of his liberty and his property." The Commissioners believe that there should be six permanent departments under the Minister

for matters connected with the law of local governments, the region of the properties of the poor, the Medical care of the public health and the poor, and legislation bearing on the Profession of Medicine. A recommendation is also made to bring the naval and military Medical services in direct retaint to the Central Health Office.

THE SEWAGE OF DUBLIN.

Many of the Dublin citizens wish to get rid of the excrementitious refuse of their population, without subjecting themselves to the incubus of enormous engineering works, which, after all, are for the purpose of collecting sewage into huge reservoirs, and then letting it into the sea at cbb tide. We learn from a paper circulated by Dr. Charles Frederick Moore, Assistant-Physician to the Cork-street Hospital, that the Corporation of Dublin propose to convey the sewage of their city, "by syphons under the Liffey, through a main, at almost a dead level, for a considerable distance to a pumping-station on the north side of the city, and to construct a sea-wall and main sewer within it, to the North Bull, a large sandy tract eight miles away from the commencement of the sewers. At the Bull, another pumpingstation is to be built, and two large reservoirs, in which latter subsidence of the more solid matter, it is hoped, will take place in time to let their contents be emptied on the ebb tide, and to admit of the solid matters, amounting to very many tons daily, being dug out, and then carted away (without nuisance by Act of Parliament), and buried in the sand, which is already saturated with sea-water, and therefore quite ready to decompose the sewage refuse into most poisonous gases. For sixteen hours daily there can be no overflow of the sewage; at all times volumes of sewer-gases will escape into the crowded city from the several sewers."

Now, there is no doubt but that the management of excementitious matters is the most important item in general sanitary arrangements. Not only do these matters, if ill: managed, taint the air and conduce to a state of general unhealthiness, but at certain times they have special critic of their own, and are the means of propagating diarrhoss, dysentery, cholers, and, as we believe, the scarlet fever and every other form of zymotic disease.

In the next place we may advert to the various conditions under which the freed element in sevage may do mischief, and we may distinguish varieties of mischief—first, from the watercloset or privy, or other primary receptacle; secondly, from the house-drains, if defective or leaky, so as to give exit to severgases and soak into the ground; thirdly, from the streetsewers; and, lastly, from the ultimate destination, be it river, see, or land.

Now, we believe it to be indisputable that it is at the first of these places-viz., the privy or closet-that frecal matter is most dangerous. Even in the best of private houses, with claborate fittings and an ample supply of water, and the use of disinfectants, it is possible that the closet may be the means of diffusing zymotic disease amongst the inmates. But this diffusion is certain in the case of crowded houses, where perhaps "forty sonls go to one closet," where the pan and trap are flushed out perhaps once a day, perhaps once a week, and where the frecal matters of numbers of persons, sick and well, lie stinking, and perhaps are scattered over the seat and floor of the closet and the adjoining yard. Such is the condition of the so-called waterclosets of houses inhabited by the lowest orders in London, that every municipal authority that knows its business sends round a labourer with brush and bucket and carbolic acid at regular intervals to keep the places sweet. It is a delusion to suppose that waterclosets pure and simple suffice to remove the frecal sewage of a crowded, debased population in London. We know not what the Irish at home may be, but in London they are the most unmanageable offenders, and it is quite a myth to suppose that any watercloset system alone can get rid of their sewage.

We believe, in fact, that the watercloset (so-called) in poor bouses, usually without water, seldom flushed clean, is a source of danger, and requires manual interference to keep it sweet. But if so, why not adopt a system of allogether removing the forcal sevage from poor houses by hand labour? As for the rich and cleanly, these have their closets, and pay for the water which is thus used, and for the necessary sewers; but as for the poorest in towns, and for scattered populations, where water is scarce, and where there is no safe method of dealing with the liquid sewage, we believe the dry system to be the best, and that if the excrementitious matter were received into boxes charged with dried earth or sakes and a little earbolis acid, to be removed by carts to barges which should convey it to the fields, he alth, e-comour, and sgriedulare would be alike beenfelted.

FEVER IN MAURITUS-CHOLERA IN MADAGASCAR, AND ALONG THE SOUTH-EAST COAST OF APRICA.

WE understand that intermittent and remittent fevers are again becoming frequent among the civil population of Mauritius. We are also informed that cholera prevails to a considerable extent along the east coast of Madagascar, in the islands Mayota and Johanns (members of the Comoro group), at the northern extremity of the Mozambique Channel, and along the east coast of Africa, to the south of Port Mozambique, between the eighteenth and nineteenth degrees of latitude, about the mouths of the Zambesi River. The gradual extension of cholera in a southerly direction from Zanzibar, along the coast-line, towards the Cape Colony, is a subject of extreme importance, and suggests great difficulties in the establishment of the theory, supported by Inspector-General Lawson, of the advance of this disease by "pandemic waves" from south to north, along the belts enclosed by the isoclinal lines of terrestrial magnetic influence.

THE MIGHTINGALE FUND.

THE annual report for the year 1870 states that, at the close of 1869, there were nine probationers in residence at St. Thomas's Hospital. During 1870 thirty-five probationers were admitted to the school; three have been dismissed, seven have resigned or been found unsuitable for the work, and sixteen have been recommended to appointments, leaving eighteen still in training at the close of the year. The full number of twenty-three was shortly afterwards completed by further admissions. Mrs. Wardroper, the matron, and Mr. Whitfield, the resident Medical officer, state they believe that the Hospital has afforded the best opportunities to the probationers for obtaining experience and a thorough practical knowledge of the Professional duties required of them. They add that the diaries and Modical annotations of those probationers who had left were most of them very ereditable, as well as their records of cases. The receipts for the past year had been £1564 3s. 6d., and the expenditure £1094 0s. 9d. The total amount of invested funds on December 25 last was £51,200.

PRESENTATION OF TESTIMONIAL TO DR. THOMAS KEITH. (From a Correspondent.)

Os Thursday, Jane 1, there met at No. 2, North Charlotteterect, the residence of Dr. Thomas Keith, a committee, including Dr. Christison, Dr. Matthews Duncan, Dr. John Brown, Dr. Maclagan, Dr. Begbie, Dr. Sanders, Dr. Combe, Dr. Morchead, Dr. Stretbill Wright, Mr. Annandale, and Dr. Sidey, to present to Mrs. Keith, on behalf of seventy-nine subscribers, a portrait of her husband, by Mr. Reid, and a service of silver plate, as a token of their admiration of her husband. Dr. Christison, who had been requested to make the presentation, expressed in warm terms the pleasure with which he compiled with the wishes of the subscribers. There

were, he said, several grounds which had led to this expression of admiration-namely, Dr. Keith's great success in treating one of the most terrible diseases which may affect the life of woman, his disinterestedness, his fine character, and his devotion to duty, and their appreciation of the great sacrifices he had made in pursuit of his object. The great operation which Dr. Thomas Keith had so often and so successfully performed, had been, at one time, looked upon as almost certainly fatal, and had only been kept from disuse by one or two bold Surgeons until the time when Dr. Keith and another Surgeon in the south (referring to the labours of Mr. Spencer Wells) had suceecded in establishing it as one of the legitimate operations in Surgery. Professor Christison then referred to the change of opinion which his friend, Mr. Syme, of whom he spoke "as the wisest of his friends," had expressed in regard to this operation. Alluding to the wish which he had expressed, that a mutual friend (who ultimately did recover) should be placed under Dr. Keith's care, Mr. Syme remarked, "You know that hitherto I have regarded this operation like marder, but I consider now that it has been brought by Dr. Keith within the range of legitimate Surgery." Dr. Keith, iu replying, stated that he had great satisfaction in feeling that so many of his fellowworkmen had gathered together to assert their approval of his conduct in helping to raise ovariotomy to the ranks of a legitimate and successful operation, and the pleasure which he experienced was enhanced by the fact of the presentation being made by him whom they regarded as the father of the Profession. He referred to the operation in which he was so much interested, remarking that because success had been achieved in a remarkable manner, it was not to be supposed that too much had been made of its dangers in former days. Now was the time, however, to seek carefully for those perils which were still as much hidden as formerly.

We may add that Dr. Matthews Duncan was treasurer, and Dr. Arthur Gamgee secretary to the influential committee which carried out the purpose of the subscribers.

DEATH OF M. LIEGEOIS.

Wz are sorry to anneunce the death of this eminent Surgeon, at Paris, on June 2. He was seized with a four-count atroke of apoplexy as he was sitting after dinner, and died in a few hours. He was only 40 years of age.

FROM ABROAD.—ACTIONS FOR MALPRAXIS—M. OSCAR HEYFELDER ON TENT-HOSPITALS AND EXCISIONS OF BONE.

Another of those iniquitous actions for malpraxis with which the Profession is from time to time annoyed in this country and the United States has recently been brought to a satisfactory conclusion at Philadelphia. As usually happens, a scheming lawyer was at the bottom, hoping, not for success if the case went to trial, but to screw out of the defendant a sum of money as a compromise. As Professor Gross and his son were here defendants, it will be at once seen that a verdict against them or a consent to a compromise was alike improbable. The facts are so transparently worthless for their assumed object that they are hardly worth detail, the object evidently being merely to extort money from persons able to pay it in order to avoid the annoyances which attend all trials, even with the right on one's side. A man lost his leg during the American war, and some time afterwards, having fallen on the stump, an aneurism ensued. Admitted into the Hospital, ligature of the vessel was performed by Professor Gross, nothing remarkable occurring during the operation. Secondary hemorrhage, however, supervened, and, notwithstanding every care bestowed upon the patient, he died, desiring that his Medical attendants, who had given him their assiduous care gratuitously, should be sued in heavy damages. A benevolent lawyer, in spite of the wishes of the relatives, constituted himself residuary legatee of the proceeds, and endeavoured to extort a sum of

money as a condition of not pursuing the suit. This was scornfully refused, and the case going on to trial broke down under the plaintiff's own statement, the legal adventurer receiving a severe rebuke from the judge.

The Medical Record, commenting on the case, observes :-

" The community are beginning to wake up to the fact that the defendant is generally the injured party, and are willing to weigh the evidence of Professional skill in its proper balance. Plaintiffs will also learn that the time has come when the Medical man is not to be tempted into any compromise for the sake of avoiding an annoying suit or saving the time of attendance in court. A few more such victories will put an end to trumped-up charges of malpraxis. It is seldom, if ever, that the idea of such a suit originates in the brain of the plaintiff. There are always one or two elements which are the means necessary to the end—a pettifogging attorney and an irregular and unprincipled Medical Practitioner. They generally work hand-in-hand to defraud the Surgeon of his means and reputation. The plaintiff is but the tool in their hands, and, stimulated by the chances of large damages, is over ready nd willing to have the facts perverted to suit the emergencies. If every one of these attacks were as defiantly met as in this instance, and if Medical witnesses on the part of the defendant would be as ready and as willing to testify to Professional knowledge, skill, and experience, the results would be as gratifying as triumphant. We believe that one of the reasons why Medical men dread suits for malpractice is, that they do not appreciate the proper relations in which they stand to the community. The law is so framed that every possible protection is afforded them, and no educated Medical man need fear to have his Protheut, and no conserved anceived man need rear to make me a re-fessional acts criticised in any court of justice. If he can prove that he has been dutiful to his patient, and has con-ducted the case to the best of his ability, as an educated Medical man, he is sure to have the law on his side; but if from any desire to dodge an investigation he is coaxed into a compromise, his prudence degenerates into cowardice, and his modesty into an acknowledgment of incapacity.

Dr. Oscar Heyfelder, giving some account of his experience derived from the late war (Presse Belge, May 7 and 14), states that, although on a somewhat limited scale, he had the opportunity, which is so rare in war-time, of watching the progress of his cases during several months, aided by intelligent assistants and devoted nurses. He was Medical director of a Hospital of 200 beds, at Neuwied, near Coblenz, from August to February. It was founded by the Princess de Wied, and there was also an ambulance for officers at the château. As their Surgeons had accompanied the Prussian army, Dr. Heyfelder also acted as Consulting Surgeon to numerous provincial Hospitals. The Hospital at Neuwied became truly international, by reason of Surgeons resorting to it from all countries, which also supplied it with donations in money and material of all kinds. Immediately after the capitulation of Metz, he was allowed to select from the 16,000 patients exhausted by famine, wounds, and disease, 100 of the worst cases, suffering especially from wounds of the joints and compound fractures. In the park of the Prince de Wied, close to the Rhine, there had been erected three wooden sheds, on the American plan, and sixteen tents. The three sheds, having an agreeable appearance, were raised by brick pillars six feet from the ground. Separated about 100 paces from each other, each shed contained two wards, each holding twelve patients, having a room for the Sisters of Charity intervening. The London German Society also forwarded ten oblong tents, each capable of holding ten patients, and other tents were forwarded from Russia. As a general rule, there were 200 patients distributed over thirteen tents and eight sheds. ' Abundant ventilation was secured, and, as they ceased to require continuous Surgical attendance, the convalescents were drafted into ambulances in neighbouring convents and châteaux. On the other hand, cases which in these establishments required continuous treatment or operations were sent into the tents. The tents were from time to time changed and replaced, so as not to be continuously occupied.

In consequence of these precautions, and the exceptionally favourable conditions of all kinds under which treatment was pursued, this proved very successful. The number of recoveries was very great; and patients arriving from other places, especially Metz, pale and exhausted, rapidly regained their appetite, sleep, good looks, and cheerfulness-and that in very bad cases. The air never being vitiated, the ordinary consequences of overcrowding-as gangrene, pyremia, crysipelas, and phlobitiswere not met with. It seems that, whether in imitation of the mountain tribes of the Caucasus (where the practice has prevailed from time immemorial) or not, the Russians have been in the habit during summer of resorting to the tent systemfor the last forty years. Not only in the great camps near St. Petersburg, Warsaw, etc., are the patients placed in this description of ambulance, but all the civil and military Hospitals possess a similar mode of establishmentfor the summer months. Of course, in winter the great object in so rigorous a climate is by any means to exclude the cold; and as this has to be effected at the expense of ventilation, the consequence is that not only the vast Hospitals of the town, but the smaller ones, and even private houses, become infected, and erysipelas, gangrene, and pyzemia, typhoid and recurrent fevers are produced. Among the lower classes and the soldiers hemeralopia and scorbutus become prevalent; and ulthough all the usual remedies are resorted to, there is but one means of radical cure, the admission of air. The evacuation of Hospitals, ambulances, etc., is therefore effected as soon as this becomes possible; and to this end every Russian Hospital is in possession of light wooden constructions, or tents are raised in large gardens or plantations, and sufficiently remote from habitations, under the designation of summer Hospitals. Scorbutus and hemeralopia now disappear as if by enchantment, the wounds take on a healthy aspect, and epidemics disappear. The soldiers continue in the tents until the camps are raised; and the civilians remain in them until snow appears, and in the sheds sometimes still longer. In the meantime, the Hospitals which they evacuated have been thoroughly cleaned, scraped, and painted inside, so that at the beginning of winter they are, so to say, new, clean, and healthy.

As has been said, the great amelioration of patients removed from a closed Hospital into tents is very striking, recovering in a few days their colour and flesh. It is true that residence in these tent ambulances occasionally gives rise to chills and inflammations; but M. Heyfelder agrees with M. Ehrmann, Chief Physician at Metz (who has since died in consequence of the labours he there underwent), that it is preferable to suffer occasionally from excess of ventilation, and even to lose a case or two in consequence, than to risk the infection of an entire Hospital. Various modifications in respect to warmth and ventilation had to be resorted to at Nenwied, in order to render it possible to treat the patients in tents and sheds during the winter. Still, although that of 1870-71 was a very severe one, it was found possible to treat the sick and wounded there with advantage. These are M. Heyfelder's general conclusions concerning these Hospitals :- 1. Sufficient ventilation is the primary condition for the successful treatment of the wounded, as also of certain diseases, especially typhoid fever and scorbutus. 2. The placing patients, and especially the wounded, in tents and sheds, is the only means of obtaining a sufficient ventilation. 3. Such placing is simple, cheap, and possible in all places and in all seasons. 4. In future, every Hospital should possess wooden sheds or tents for the reception of all or a portion of their patients in summer, especially during the prevalence of epidemies. 6. In time of war, every army corps and nvoryambulance should be in the possession of a certain number of tents.

The operations most frequently practised at Neuwied were excisions. These were forty in number, without counting the extraction of splinters and sequesters, which occurred about thirty times. Those cases are not termed excisions in which it became necessary, in order to remove a splinter, to excise a superjacent or prominent portion of bone. M. Heyfalder did not perform a wingle ampostation; and unless three is a very precise indication, he has a great repugnance to this operation-a repugnance which has increased with age and experience. On the present occasion he was able to sacrifice abundant time to his patients, carefully dressing them twice a day, observing every precaution and exceeding cleanliness. A plaster apparatus was renewed six or seven times during the convalescence of a patient, and the invention and application of new apparatus were much favoured, by reason of the presence of so many Surgeons from all parts, and by the abundance of means at disposal. It is to conservative Surgery, conducted under such suspicious circumstances, that the success of the cases treated is due. Alluding to excisions made in the continuity and through the whole substance of the bone (an operation quite recently rejected by so great an authority as Stromeyer), M. Heyfelder states that he has performed eighteen, with the best results. They were facilitated by the fact of the periesteum having become detached through inflammation, and by the bone being more easily removed than in recent cases. The limitation of the caries or necrosis was often completed, or at least visible. Whenever possible, the excisions were performed subcutaneously, and preserving the periosteum. To this end he practised one or two longitudinal incisions, and employed the chain-saw with great advantage. Although in the after-treatment of some of the cases, in which the state of the wound or amount of suppuration indicated it, he resorted to permanent immersion of the limb from three to fifteen days, in the generality of cases he was at once able to apply the plaster-of-Paris bandage, or some other form of amero-inamorible apparatus. Some of the most interesting cases are related, but for these we have not space.

PARLIAMENTARY .- METROPOLIS WATER-SUPPLY -- ADULTERATION OF POOD, DRUGS, ETC .- CONTAGIOUS DISEASES (ANIMALS) BILL -LUNATICS (SCOTLAND) BILL-POOR-LAW DISPENSARIES.

On Thursday, June 1, in the House of Commons, Mr. Bruce's Metropolis Water Bill was read a second time. e order for committing the Adulteration of Food, Drugs, etc., Bill was read and discharged, and the Bill withdrawn.

On Friday, June 2. Mr. Read called attention to the operation of the Contagious Diseases (Animals) Act, and moved for a Select Committee to inquire into the constitution of the Veterinary Department of the Privy Council, on whose actions he passed some severe criticisms, complaining of its cost, of its neglect to give information requested from it, and of its utter uselessness in preventing or checking disease.

Mr. Jacob Bright took advantage of the motion to advocate the importation under inspection of foreign cattle from un-infected districts, and Mr. Beach, on behalf of the farmers, declared that they required no restrictions but what were necessary to exclude disease.

Mr. Forster explained in detail the course taken by the Privy Council to carry out this Act, and vindicated all they had done to check rinderpest and other cattle diseases, pointing out that without the aid of a Professional department the Privy Council could not stir.

At this stage of the debate only twenty-eight members were found to be present, and the House was adjourned.

On Tuesday, in the House of Lords, The Lunatics (Scotland) Bill passed through Committee.

In the House of Commons, in answer to Dr. Lush,

Mr. Stansfeld said that the time had hardly arrived for finally settling the question of Peor-law Dispensaries. It was much to be doubted whether he should be able to introduce a Bill on the subject during the course of the present session.

How to spread Small-Pox .- There is a particular shop in the Portobello-road, Notting-hill, where rags, bones, and old clothes are sold, and where articles are "left," to be fetched away again on payment of interest. The proprietor of this cetablishment, his wife, and child are all suffering either from small-pox or fever, and have been so for the last three weeks. A nurse attends to them and also to the shop, receiving and delivering the rags and wearing apparel from and to the customers, whilst in intervals she waits upon the sick family. All this is patent to the immediate neighbours, and yet nothing is done to stop the spread of disease.

HANGING FROM A HISTORICAL AND PHYSIOLOGICAL POINT OF VIEW.

SEVERAL years have elapsed since Professor Haughton, of Trinity College, Dublin, published his elaborate memoir "On Hanging, considered from a Mechanical and Physiological Point of View," which we noticed shortly after its publication. In this memoir he forcibly points out the advantages of the Irish and the American systems over the English method, which he regards as a relic of a barbarous age, when hanging was really only a humane preparation (by deadening sensation) for the more cruel subsequent processes of drawing and quartering. For information regarding the Irish long-drop and the American systems, both of which have been so formularised by Professor Haughton as to ensure fracture of the second cervical vertebra, and, consequently, instantaneous death, for criminals of different weights, we must refer to his paper.(a) His views regarding the original intention of English hanging are strongly supported by the following extract from a curious little book, entitled "A Memorial for the Learned," by J. D. Gent, London, 1686. Amongst "Notable Events in the Reign of Henry VI." he records that "Soon after the good Duke of Gloucester was secretly murthered, five of his menial servants viz., Sir Roger Chamberlain, Kut., Middleton, Herbert, Artiz, Esq., and John Needham, Gent., were condemned to be hanged, drawn, and quartered; and hanged they were at Tyburn, let down quick, stript naked, marked with a knife to be quartered; and then the Marquess of Suffolk brought their pardon, and delivered it at the place of execution, and so their lives were saved."-P. 77.(b)

Further evidence, showing the clumsy and imperfect mode of hanging practised in England and Scotland, is afforded by the number of anthenticated cases that have been recorded of resuscitation. The consideration of these cases naturally leads to the question-When the criminal has once been banged, has he, if he survives the operation, borne his allotted punishment, or is the operation to be repeated till death ensues? In olden times there was a general belief in the more merciful view of the ease. In the celebrated old poem "The Vision of William concerning Piers the Plowman," written by Langlands, which first appeared about a.D. 1362, the following passage occurs :-

" It is pought vsed in orthe to hangen a feloun

Ofter than ones, though he were a tretour; And jif the kynge of that kyngedome come in that tyme, There the feloun thole sholde deth, or otherwyse, Lawe wolde he yene hym lyfe, if he loked on hym;"

i.e., "It is not usual in the world to hang a felon oftener than once, even though a traitor; and if the king of that kingdom were to come at the time where the felon should was adjudged grant him his life if he looked upon him."(c)

Four centuries later. Blackstone, in his celebrated "Commen-

rout centuries inder. Substitution, in its contract. Commented trains, holds a very different opinion. "It is clear," he observes, "that if, upon judgment to be hanged by the neck till he is dead, the criminal be not thoroughly killed, the officer of the

sheriff must hang him again.

sheriff must hang him again."

The opinion expressed in "Piers Plowman's Vision" was probably based on the fact that a Royal pardon or commutation of the sentence was usually granted in English cases where the operation of hanging had been unsuccessfully performed. In Scotland, however, if we can take the Assignte Calendar as an authority, the law is different. "By the Scottish consenser as an authority, the law is directed. "By the Scottlah law, every person on whom the judgment of the court has been executed has no more to suffer, but must be for ever discharged; and the executed person is dead at law, so that his marriage is dissolved. This was exactly the case with Margaret Dickinson (who was executed for child murder at Edinburgh, January 9, 1728, and came to life again as she was being conveyed in a cart to her native place for interment, and sat up in her coffin), for the king's advocate could not pursue her any further, but filed a bill in the High Court of Justitiary against

⁽a) Philosophical Magazine, 1868. (b) For our knowledge of this, and of several of the other cases quoted in this paper, we are indebted to the index to Notes and Queries.

in this paper, we are indecoded to the index to scene one Queries.

(c) This quotation, as we learn from a private communication from the Rev. W. Skeat, does not occur in all the versions of the poem. It is to be found in Text B, Passias viii., 1, 877. He has a supption that the phrasin "ofter than ones" may be merely ironical, and has no learning on the

the sheriff for not seeing the indement executed. Her husband. the sacent for not seeing the judgment executed. Herauseana, being a good-natured man, was publicly married to ber within a few days after the affair happened."—(The Newgate Calendor and Malefactors' Bloody Repository, vol. ii., p. 233.) We may add that after this escape she had several children and lived for twenty-five years, without, so far as is known, a speck upon her character. We are acquainted with several well authenticated cases in which, previous to the composition of the "Vision of Piers Plowman," reprieves were granted to criminals who had survived the operation of hanging. The following is the form in which a pardon in a case of this nature was granted by Henry III., in the forty-eight year of his reigu (1264), to a woman who was hanged for harbouring thieves:

"Rex omnibus, etc., salutem. Quia Inetta de Balsham pro receptaculo latronum et imposito nuper per considerationem curie nostre suspendio adjudicata et ab hora nona diel lung usque post ortum solis dici Martis sequen. suspensa, viva evasit sicut ex testimonii fide dignorum accipimas. Nos divines charitatis intuitu, pardonavimus cidem Inetta sectam pacis coarticats in third, partionarimus cidem thetra section passes mostre que ad nos pertinet pro receptaculo predicto et firmam pacem nostrum ci inde concedimus. In cujus, ctc. Teste Rego apud Cantuar., xvi'. die Augusti."

This remarkable document is taken from the Patent Rolls of

the above-mentioned year.

Two nearly similar cases are recorded as having occurred in the following century, and, by a strange coincidence, they both happened at Leicester. In 1313, Matthew, of Enderby, a thief, was convicted, and sentenced to be hanged. " Ho was led to the gallows by the frank pledges of Birstall and Belgrave, and by them suspended; but, on his body being taken down and carried to the cemetery of St. John's Hospital for interment, carried to the cemetery of St. John's Hospital for informent, he revired, and was subsequently exited."—(Thompson's "History of Leicester," p. 110.) In 1363, as is related by Henry of Knighton, in his "Chronicle of English History," "Walter Wynkeburn having been hanged at Leicester, after having been taken down from the gallows as a dead man, was being carried to the cemetery to be buried, but began to revive in the cart. To this man King Edward granted pardon in in the cart. 10 this man king rawking granted parton in Leicester Abbey, and gave him a charter of pardon, thus saying in my hearing: — Deus tibi dedit vitam, et nos dabimus tibi cartam. "—Col. 2627.

The two succeeding centuries (the fifteenth and sixteenth) present no case of historic interest; but early in the seventeenth century we meet with the first authentic account of a preconcerned plan to cheat the hangman. A man named Gordon concerned plan to cheat the hangman. A man named Gordon of escaping the final penalty of the law, engaged the kindly acritices of a young Surgeon, who introduced a small tube through an opening which he had made through the windpipe. After being duly hanged, Gordon's body was given to his friends. His surgical friend at once bled him, and the highwayman sighed deeply, but subsequently fainted and died. Details of this case may be found in the "Memoirs of the Royal Academy of Surgery in France," edited by Professor Erichsen for the Sydenham Society. It is of special interest, as it probably affords the clue to the leading incidents in Scott's " Fair Maid of Perth," Hook's "Maxwell," and a story in Blackwood's Magazine for 1827, entitled "Le Revenant."

In a little book, published about twenty years ago, entitled, "Notes and Narratives of a Six Years Mission, principally through the Dens of London," by R. W. Vanderkiste, the case is recorded of a woman who was hanged at Newgate, and who lived many years afterwards. "The person, by some means, contrived to introduce a silver tube into the gullet. She was delivered to her friends for burial immediately after execution, delivered to ner risens for our at immediately size to account, and hurried home, where, after considerable difficulty, she was restored to life. —P. 7. If there is any truth in this statement, the tube must have been inserted into the windpipe (not the gullet), and it is impossible that this could have been done without Surgical aid. The case requires further corroboration before it can be accepted as authentic.

The case of resuscitation after hanging that has excited the case of resistantian after langing that ame exercise more general attention than any other is unquestionably that of Anne Greene, of Oxforl, which occurred in the middle of the seventeenth century. A full account of this case may be found in a rare pampilet in the British Museum Library, cuttled "A Wonder of Wonders: being a faithful narrative of one Anne Greene, servant to Sir Thomas Reed, in Oxfordshire, who, being got with child by a gentleman, was hanged, and came to life again; the whole witnessed by Dr. Petty (the Physician who cured her), and licensed according to order." published at Oxford, January 13, 1651. It is likewise noticed in Dr. Plot's "Natural History of Oxfordshire," p. 197; Derham's "Physico-Theology," third edition, 1714, p. 157; in

vol. lxx, of the Gentleman's Magazine; and in Charles Knight's vol. DX. of the commons a magazine; and in Charless angus e "Book of Table-talk," 1866, vol. i., pp. 236-241. Protesting her innocence of the marder of her child, for which she had been condemned, she entreated her "dear cousin"—a young man standing at the foot of the ladder—that he would use all possible means to despatch her out of her pain. "Accordan possible means to despatch her out or her pain. Accordingly, says the writer of the pamphlet, "upon being turned off the ladder, the kinsman took hold of her feet, and Lung with all the weight and force of his body. Morcover, a soldier standing by gave her four or five blows on the breast with the butt-end of his musket, and, having hung for half an hour, she was cut down, being quite dead, and put into the chirur-geon's chest, who had begged her for an anatomy." Dr. Derham tells the story somewhat differently. He states that "after she was in her coffin, being observed to breathe, a lusty fellow stamped with all his force on her breast and stomach, to put her out of her pain. But by the assistance of Dr. Peity [Petty], Dr. Willis, Dr. Bathurst, and Dr. Clark, she was again bronglit to life."-(" Physico-Theology," thirteenth edition, p. 166.) The sheriff tried to insist on rehanging her, but the Puritan troops then stationed in Oxford saw "the special finger of God" in her escape, and protected her from further violence. Her innocence was universally recognised, and no special pardon seems to have been deemed necessary.

Dr. Plot, in his "Natural History of Staffordshire," p. 292, again notices this case, and suggests that probably she could not be hanged so as to cause death, in consequence of ossification of the upper part of her windpipe, which was so rigid that it could not be compressed by the weight of her bedy; and he quotes the case of a Swiss, who, according to the Rev.-Mr. Obadiah Walker. Master of University College, "was attempted to be hanged no less than thirteen times, yet lived, notwithstanding, by the benefit of his windpipe, that, after his

death, was found to have been turned into a bone.

The last-named writer gives two other cases of resuscitation -those, namely, of the servant of Mrs. Cope, of Oxford, who was hanged in that city in 1658, and kept suspended as unusually long time, and yet revived; and of Margery Mansole, of Arley, regarding whom he gives no particulars.

In the year 1696 an ingenious attempt to escape the last enalty of the law was made by Richard Johnson, who was hanged, on October 3, at Shrewsbury. He had succeeded in obtaining a promise that his body should be laid in the ceffin without being undressed. After hanging for half an lour, he showed such distinct signs of life, that the hangman proceeded sto see what was wrong with him; and on examination it was found that the criminal had wreathed cords around and under his body, connected with a pair of hooks at his neck, by which has boay, connected with a pair of noots at ms ited, by work of he was supported so as to evade the pressure of the noose, the whole apparatus being concealed under a flowing periwig and between two shirts. Ho was at once taken down, and, the ropes and hooks being removed, he was effectually hanged. (d) The next case that we shall notice occurred in Cork, in the

year 1766, and, if the concluding sentence of the paragraph be true, hanging in Ireland, whatever Dr. Haughton may say to the contrary, must have been a form of punishment that gave its victims a fair chance for their lives. "Patrick Redmond, tailor, was executed at Gallows-green, on September 10, 1766, for robbing the dwelling-house of John Griffin. Glover. the player, took an active part in this man's recovery. After he had hung nine minutes, and was cut down, he was perfectly restored to life by constant friction and furnication. He afterrestored to life by constant friction and fumigation. wards made his escape from the room in which his friends had concealed him, got drunk, went to the playhouse-door (on the night of his execution) to return to Glover thanks, and put the whole audience in terror and consternation. He was the the whole audience in terror and consernation. Are was use third tailor that made his secape from the gallows fat Cork] since the year 1755. "—The Cork Remembrance, by Edwards, p. 214. We ought, perhaps, to notice that the story of Patrick Redmond is told in a different and more probable way in the Redmond is tout in a different and more protoson way in nice fearliemen's Algorithe for February, 1767. It is there stated five or six hours was restored to life by means of an incition being made in his windpipe. "The poor fellow," says the sympathising editor, "has since received his parion, and a gented collection has been made for him," Happy were the highwaymen and burglars of those Areadian days

There is something essentially Irish in the details of this brief narrative, in the zeal with which Glover, the player, set to work to frustrate the sentence of the law on a common burglar, in whom he does not appear to have any personal interest; in Redmond at once proceeding to get drunk, with

June 10, 1971. 67 L

the view, as we may suppose, of showing how little moral benefit he had derived from his punishment; and then, under nement ne nau derived irom his punishment; and then, under the genial influence of whisky, proceeding to that ki his bene-factor, utterly regardless of the personal risk he was running by thus publicly showing himself; and lastly, in the astound-ing effect which his presence excited in the terrified audience.

Finally, if our readers require a still more remarkable illustration of how capital punishment was conducted only a century ago in Ireland, they will find in Sir Jonah Barrington's "Personal Sketches of his Own Times" the history of Mr. Lanagan, who, after being hanged and quartered at Dublin, entered the

monastery of La Trappe.

An improved system of hanging, such as one of the forms of long-drop advocated by Dr. Haughton, or that of Dr. Barker, of Melbourne, which we shall shortly describe, would not only render resuscitation impossible (which, after all, is a matter of little practical importance, in consequence of its extreme rarity). but would effectually prevent the occurrence of those convulsions too often presented on the English scaffold, which are exceedingly painful to witness, even if they are not indications of the persistent sensibility and consciousness of the criminal.(e) It would, moreover, have the additional advantage of being applicable to cases in which, for various reasons, the present English system fails. We refer to such cases as that of the Swiss (already alluded to) who was unsuccessfully hanged thirteen times; that of a young man who, not a great many years ago, was allowed, through the carelessness or ignorance of the gaol Surgeon, to be hanged, although he had an opening in his windcon geon, to be named, attnough he had an opening in his wind-pipe, consequent on the operation of trachectomy having been some years previously performed on him; and that of Ruther-ford, who only a few months ago escaped the gallows simply because, in consequence of a hard cicatrix in his neck, resulting from a severe burn, the Surgeon of the gaol felt that it would be almost impossible to hang him successfully by the ordinary method.

In hanging, as practised in this country, death, as Dr. A. S. Taylor tells us, "commonly results from asphyxia (apnœa), but Asyste tous us, "commonly results from sephyxin (spaces), but sometimes from apoplery caused by presenter on the jugular vein, being preceded by convulsions, often lasting for many minutes, but in all probability not accompanied by more than momentary pain. Consistently there is found displacement or measure of the first or second of the vertebrae, with compression presents of the converse of the contract of the contract of the contract of the vertebrae, with compression of the spinal marrow. This cause of death is only likely to be observed in corpnient or heavy persons, when a long fall is allowed by the cord, and is seldom met with in judicial

Dr. Taylor's views(f) regarding the ordinary cause of death by hanging as practised in Great Britain are completely borne out by the evidence of Dr. Barker, the Medical Officer to the Melbourne Gaol. It is needless to say that executions are far more common at the antipodes than at home. Hearing that this gentleman had initiated a new and comparatively painless modification of the ordinary procedure, we ventured to apply to him for further information. In reply to our inquiries, he tells us that since he first saw an execution, thirty-seven years ago, be has striven to make the punishment as merciful as possible. He made no less than fity post-morten examinations of criminals hanged according to the old orthodox method, and in not a single case was there dislocation or fracture of the vertebre, death being caused by congestion or tracture of the vertebre, death being caused by congestion of the brain, with strangulation. We must allow him to describe in his own words the nature of the system which he has introduced, and the manner in which he discovered it :-

"It was by chance that I was able to suggest the present method, merely through the bungling of the hangman allowing the knot to slip and come on the spine. I have the knot put about two inches from the spine, so that when it is tightened by the weight of the body the knot comes on the vertebræ; by the fall the body has an impetus forwards, the resistance being at the beam to which the rope is fastened; the knot acts as a fulcrum to push the head forwards. By this arrangement, in all cases where the knot has been so situated, I bave found there was a dislocation between the second and third cervical vertebre, with fracture of the third, and pressure on the spinal cord. I have always found laceration of the sterno-cleido-mastoid muscles, the muscles attached to the larynx, laceration of the larynx, and generally fracture of the hyoid bone, death in

(e) In the case of Walter Miller, who was lately hanged for the Chelsea murder, the drop was only two and a half feet, and the result was that "there was more muscular action and writhing than usual."

(f) It should be stated that Dr. Taylor published these opinions before the appearance of l'refessor Haughton's memoir, and obviously in ignorance of the long-drop system, which seems to have been adopted for some time in Ireland.

this case resulting from the injury to the spinal cord. Death is so sudden and complete, that in one case a lock of hair which a man held in his haud at the time of the drop was found in his hand when ho was cut down at the end of the hour; in two or three other cases pocket-handkerchiefs have been similarly retained and found in the criminals' hands when taken down. I have seen no movement of the upper extremities, but occasionally a little convulsive or perhaps reflex action of the lower. I have often thought of sending home an account of my method to the Humane Society, but have always put it off, expecting to have more leisure, but if you would publish it, my work would be accomplished without further

It is full time that our present barbarous and unnecessarily cruel rstem of execution should be modified; and we have described three modes by which we may secure the instantaneous death of the criminal-namely, the Irish long-drop, the American system (which also requires a long-drop), and Dr. Barker's method, which requires a comparatively short drop of three or four feet. Under either of the long-drop systems a criminal weighing only eight stone would require, according to Haughton's formula, a fall of no less than twenty feet, unless he were weighted; and we can readily conceive that this jockey-like process of bringing him up to a definite weight would be repugnant to the feelings of the public at large, and might be strongly objected to by the unfortunate person whose interests were specially concerned. As a drop of twenty feet is not always conveniently attainable in a goal, Dr. Barker a system seems the most generally applicable. This, however, is a point on which we do not venture to give a decided opinion; and we would suggest that a scientific committee, consisting and we would suggest that a scientific committee, consisting of a few anatomists and physiologists, in whose opinion the public would have confidence, should at once be appointed by the Crown, to decide upon the respective merits of the different plans.

THE ORIGIN AND THE FUTURE OF MANKIND IN A BUDDHISTIC POINT OF VIEW.

Ar the present time, when the antiquity of man is a subject that is exciting so much attention in both scientific and theological circles, it may not be uninteresting to lay before our readers the doctrines maintained in the Bauddha scriptures. These sacred writings are divided into the Puranas or Exoterio Works, of which Mr. Hodgson gives the titles of seventy, and the Tantras or Esoteric Works, of which he enumerates seventyfour. From his study of this elaborate theological library he has compiled a sort of catechism of the Buddhist creed. For the answer to the first question-How and when was the world created ?-we must refer our readers to No. 9 of the Phanix, a very ably-conducted journal devoted to the literature, geography, ethnology, religious and natural history of China, Japan, and Eastern Asia generally. To the second question-What was the origin of mankind?-we append the answer :-

"It is written in the narrative portion of our Tantras, that originally the earth was uninhabited. In those times the inhabitants of Abhancara Bhucara (which is one of the Bhuvarras of Brahms) used frequently to visit the earth, and thence specify to return to Abhaneard. It happened, at length, that when a few of these beings—who, though half males and half females, had never yet, from the purity of their minds, con-ceived the sexual desire, or even noticed their distinction of sex—came, as usual, to the earth, Adi-Buddha suddenly created in them so violent a longing to eat, that they ate some of the earth, which had the taste of almends, and by eating it they lost their power of flying back to their Bhurarra, and so they remained on the earth. They were now constrained to eat the remained on the earth. They were now constrained to eat the fruits of the earth for sustenance; and from eating these fruits they conceived the sexual desire, and began to associate together; and from that time and in that manner the origin of mankind commenced from the union of the sexes.

"When the beings above mentioned came last from Abhasvard, Maha Samvat was their leader, and he was the first king

of the whole earth. "In another Tantra it is written that Adi-Buddha is the

immediate creator of all things in heaven and earth. "With respect to time, we conceive the Satya-yuga to be the beginning of time, and the Kali-yaga the ead of it; and the duration of the four yagas, the particulars of which are found in the Brahmindeal scripture, have no place in ours, in which it is merely written that these err four yagas, and that in the first, men lived 80,000 years; in the second, 10,000; in the third, 1000; and the fourth is divided into four periods, in the first of which men will live 100 years; in the second, fifty; in the third, twenty-five; and in the fourth, when the close of the Kali-yaga is approaching, seven years only; and their stature will be only the beight of the thumb; and then all thing the second of the court years and their stature will be only the beight of the thumb; and then all thing the properties of the second of the second

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the undermentioned Districts.

				_	No	of C	anen 1	week e	nding	
Distric	te.			April 29.	May 6.	May 13.	May 20.	May 27.	June 3.	June 3. Nent to Rospital.
West	_		-	_						
Chelsea .			٠	9	4	16	7	12	8	-
St. George, He	nov	61-80		23	14	11	9	15	17	13
St. James, W.	estn	inste	r.	2	8	8	4	3	8	6
Paddington North-	٠		•	12	20	24	15	?	3	-
St. Pancras				89*	104	101	117	116	113	9
Islington .				59	64	69	42	50	36	23
	•	٠	٠	30	P	18	28	17	P	-
City of Londo	n		-	13	5	13	11.	. 8	17	
St. Giles-in-t	he-1	Field		14	6	5	2	2	7	_
Holborn .				9	5	13	10	5	8	6
St. Luke's East-				25	12	13	17	12	13	8
Whitechapel				23	7	4	23	13	9	-
Poplar .				P	P	8	11	14	9	-
St. Mary, New	ingt	on		47	28	28	29	30	35	33
St. Olave, Sou	thw	nrk	- 1	5	3	2	2	5	5	2
St. George-t			Vr.			1	1 "			-
Southwark				26	?	28	2	P	9	_
Lambeth .				32	20	F	26	24	22	29
Clapham .			- 1	32	29	13	16	6	14	10
Wandsworth				8	4	4	1	6	6	4
Streatham				9	9	1 9	1 2	2	2	-
Lewisham				?	8	P	P	9	6	3
Camberwell				9	8	9	45	P	2	_
Greenwich				-	2	9	12	1 2	2	
Plumstead				3	9	6	6	5	1 4	1

· Return imperfect.

DEATH FROM CHLORAL.—The New York Medical Reserd, May 15, reports a case of this, which, as the does is not given, is of no further interest to our readers than on acount of the remarkable verdict, of which it speaks, however, in strong approval. It seems the person sent to the chessist who had formerly supplied it a bottle labelled "hyptrate chloral" to had formerly supplied to bottle labelled "hyptrate chloral to large a dose, and died, the obleral, in fast, having been conjunity ordered for another person. The junty found that the death had been caused unintentionally, and added, "we strongly condemn the practice of druggrists dispensing dangerous medicine without an order from a Physician for each prescription of its renewal."

FOREIGN CORRESPONDENCE.

HOLLAND.

(From our own Correspondent.)

ROTTHEDAM, June 6.

SMALL-POX IN HOLLAND.

THE following are the official monthly returns for April:—

Towns.	Popula- tion Jan. 1, 1871.	Deaths from all causes, with still- born, in 10,000 inha- bitants.	Deaths from small- pox.	Deaths from scarlet fever.	Deaths from mea- sles.	Deaths from angins diphtheri- tics.
Amsterdam	281805	23.1	297	1	15	1
Rotterdam	. 123097	63.6	402	2	_	_
The Hague	93083	34.1	138	-	1	5
	60587	52.9	117	1		2

The small-pox epidemic is diminishing in Rotterdam, The Hague, and Utrecht, but is increasing in Amsterdam.

PROVINCIAL CORRESPONDENCE.

IRELAND.

Tuz annual election of efficers for the ensuing year took place at the Royal College of Surgeons, Ireland, on Monday, the offi inst., when the following were chosen—President: James H. Wharton. Five-President: Prederick Kirkpatrick. Soreders: y. Milliam John Prederick Kirkpatrick. Soreders: y. Milliam John Language. Hand Frield Milliam John Language. Hand Handle John Denkam, and Robert M'Donnell. There was a sharp coatest for the Vice-Chair, and the attendanced Fellows would was very large. The twenty-ninth annual meeting of the Royal Medical Benevolent Fund Society of Ireland was held on the afternoon.

The control of the co

From statements made by the Chairman, it would appear that the Society is in a prosperous condition, the capital already invested amounting to upwards of £14,000, the annual income increasing, and during the past year £150 having been received from auxiliary branches recently established in Bengal, Madras, and Bombas, and Sombas and the state of the stat

A very important letter was read from "Nemo," proposing to give to the Society a donation of £1000, provided that twenty Medical men residing in Dublin will give during the next ax months £100 each, or forty will give £50 each.

next six months £100 each, or forty will give £50 each.
Dr. McClintock, the Honorary Secretary, then read the report,
from which it appeared that the number of applicants for
were new, fifteen were Medical men, seventy-two were widows,
and four were orphana. Nine of the applications were disallowed, and eighty-two were approved, making the total
amount of grants for the year £571.
On the morning of the 5th, Dr. Jameson, Chairman of the

Irish Medical Association, entertained the members at breakfast at the Royal Areade Hotel.

Later in the day, the eighteenth annual meeting of the

Later in the day, the eighteenth annual meeting of the Association was held at the College of Surgeons. The chair was occupied by the President, Dr. Jameson. The country members were largely represented on the occasion. After an able address from the Chairman, the report was

After an able address from the Chairman, the report was read by Dr. E. J. Quinan, Honorary Secretary, in which allusion was made to the efforts of the Council of the Association in connexion with the College of Surgeons to have the "Medical Acts Amendment Bill" amended or opposed. It was stated that steps had been taken, which, it was hoped, would prove successful, to establish a Poor-law and Dispensary Medical Officers Widows Fund. Reference was also made to the Council's action in the case of an alleged breach of the Medical Act, com mitted by a gentleman praction; in Dublis, visiting and prescribing for patients, receiving fees, and giving Medical certificates, without being possessed of any legal qualification whatever. The matter is now in the hands of the Branch Medical Council for Ireland.

A resolution of the Conneil to the following effect was noted-namely, "That the Medical officers of each union in Ireland be requested to form themselves into union branch associations, and that each association so formed be affiliated to the Irish Medical Association on payment of one guinea on January 1 in each year.

January 1 in each year.

The report concluded with an expression of deep regret at
the sudden death of the late Dr. Charles Armstrong, so long
the able and efficient secretary of the Cork Protective Society. The following resolutions were subsequently moved and

adopted :-

1. That, should the Government re-introduce the Rating and Local Government Bili, a clause providing a Board for the Control of Public Health in each of the divisions of the United Kingdom, instead of one central board in London,

would be just and desirable.

"2. That, in the opinion of this meeting, the variable, and in most cases the wholly inadequate amount of remuneration given by the Government to Medical men, when called upon to give skilled Professional evidence, especially in the minor courts of law, is unjust and derogatory to the Profession, and that the Council of the College should be requested to cooperate with the Council of this Association with the view of

providing some remedy for this crying evil.

"3. That it was unjust that the Medical officers of this country. where the Vaccination Act had been so successfully carried

out, should receive only 1s. per successful case of vaccination, while in England and Scotland vaccination was paid for at the

rate of 1s. 6d. and 2s. 6d. per case."

After which, a vote of thanks to the Chairman having been

passed, the meeting separated.

The first annual meeting of the Irish Poor-law Medical Officers' Association was held on the afternoon of Monday, the 5th inst., in the small concert-room of the Rotunda, Dublin. Dr. Hanrahan, of the Queen's County, presided. After the reading of the report, by Dr. D. T. Manusell, Hon. Sec., a vote of thanks was passed to Sir Dominic Corrigan, Bart., M.F., for his eminent services in comexion with the Lunacy Regulation Bill. The following resolutions were also adopted : -"I. That it would be for the public good, as well as in accordance with the recommendations of the Royal Commisaccordance with the recommendations of the Royal Commis-sion, and but just to the Irish Poor-law Medical Service, that the officers of that Service should be appointed sanitary of epidenic disease, and that such officers should be remun-rated accordingly." ²² That we are of opinion that the whole of the salarice of Poor-law Medical Officers should be paid by the State, as disease is not a local, but a national calamity." The usual view of thanks were then passed, and the proceedings terminated.

GENERAL CORRESPONDENCE.

SMALL-POX IN UTERO. LETTER FROM MR. W. SEDOWICK.

To the Editor of the Medical Times and Gazette,]

SIR,-In the report of a "Supposed Case of Small-pox in Utero," published in your journal of last week, a question of much interest at the present time has been asked respecting the communicability of the disease to the focus in utero without the mother showing any sign of it. The fact that such cases can occur has been long known, and special attention was directed to the subject by Jenner himself, in a paper published in the first volume of the Medico-Chirurgical Transactions-Two Cases of Small-pox Infection communicated to the Fortus in Utero under peculiar circumstances; with additional Romarks." In one of these cases the woman became the medium for transmitting the disease to her fortas without her-nelf suffering from it. In the other case, a woman exposed the to-contagion of small-pox, who had been vaccinated five weeks before the conclusion of her pregnancy, was delivered of a female child, having at the time of it birth many cruptons (of small-pox) on it; these eruptions subsequently "increased to summing poxyon it; these cruptions subsequently "increased to some thousands, perfectly distinct, and their character well-marked." In addition to these cases, Jenner cited one observed by Dr. Mead, in which "a certain woman, who had formerly had the small-pox, and was now near her reckoning, attended

her haband in the distemper. She went her full time, and was delivered of a dead child. It may be needless to observe that delivered of a dead child. It may be needless to observe that the funds was a horrid sight, being covered all over with the pustules—a remarkable sign that it died of the disease before it cause into the world. Amongst others who have published similar evidence on this subject is the late Mr. William Forbes (Eddadeys) Medicate and Sorgical Jessews, 1807. vol. iii., p. 308), who observed a case at Camberwell, in which a woman, who had in her infancy the small-pox severely, the marks of which were very conspicuous, jursed during the latter part of her fifth pregnancy one of her children who had confluent small-pox. Three days after birth, this last child had an eruption which proved to be small-pox; showing, as Mr. Forbes justly remarked, that "the foctus in utero is liable to the small-pox from the influence of surrounding infection, although the mother have not the disease." The late Dr. in a clinical lecture delivered at St. Thomas's Hospital, December 16, 1831, referred to such communication of disease to the feetus in utero, by a mother who was unaffected by the morbid poison, as "a certain fact"; and there is, affected by the morbid poison, as "a certain fact"; and there is, moreover, trustworthy evidence in favour of other contagious diseases, such as scartains, being in like manner conveyed to a fortus by a mother who has exhibited on appearance of the disease. It is probable that in consequence of the wide-pread influence of vaccination, such caces are now of more unfre-quent occurrence than they were in Jenner's time; which is quite consistent with the fact that the immunity conferred by quite consistent with the fact that the immunity conferred by a previous attack of small-pox or by vaccination is limited, as a rule, to the mother, and is not inherited (except to a very limited extent) by her offspring. For it is only during infancy that there is usually an exemption from the disease (apart from its communication to the focus in utero through the medium of its mother), which suggests the idea that infants under the age of one year may, owing to the inheritance of an acquired peculiarity from the mother, be able to resist the morbid influence during this early period of their independent existence, and that the subsequent need of revascination later in life is due to the impression produced by early vaccination having been to a great extent effaced during the ever-recurring renewal of the system. I am, &c., William Showker. the system. I am, &c., Willi 12, Park-place, Upper Baker-street, June 6.

LETTER FROM DR. GEORGE F. ELLIOTT.

[To the Editor of the Medical Times and Gazette.]

SIR,—With reference to the "Supposed Case of Small-pox in Utero," mentioned in the last number of your paper, it may be interesting to call to mind the celebrated Dr. Mead's case. We have there what seems to be reliable evidence that the futus may contract small-pox during intra-nterine life, notwithstanding the mother's protection from the disease. In the present case it would be very desirable to know if the mother had been well vaccinated. Failing this, it seems scarcely possible to conceive that she could have escaped small-pox; but supposing her to have been well vaccinated, it is probable, I think, that this may have sufficed for her protection, just as in Dr. Mead's case the mother owed her immunity to a previous attack of small-pox. If the explanation I have suggested be correct, a stronger proof could scarcely be found-if any were needed—of the great protective power of vaccination.
Hull, June 5. I am, &c., Geo. F. ELLIOTT. GEO. F. ELLIOTT, M.D.

> MARRIAGE AND PHTHISIS. LETTER FROM DR. FRANCIS R. HOGG.

[To the Editor of the Medical Times and Gazette.]

Siz,-Turning away from siekening details of slaughter and carnage, how refreshing it is in the records of the late war to read of the homely, domestic character of the Prussians—the thoughts of these grim warriors ever reverting to the wife and children at the far distant fireside, and the family photographs constantly consulted and caressed; but of 1300 English soldiers' wives, seventy-five women appear to have married twice (in four instances before reaching the age of 20), and four have married three times. Unfortunately, of the total number, 247 had phthisical histories, and in thirteen instances both parents were consumptive, the husbands being mostly healthy; no extraordinary hardships had been undergone. The following is the Medical history, so far, of these thirteen, told as briefly as possible :-

(A) Somerset .- Commenced to menstruste at 13: married at

- 24; suffered from typhus; and in a bad labour gave birth to a weakly child.
- (B) Hampshire, Menstruated at 17; married at 18; suffered severely from scarlet-fever. (C) Hampshire.-Menstruated at 12; married at 19; children

suffer from convulsions.

(D) Hampshire.—Menstruated at 19; married at 23; suffers from hemoptysis and bronchitis; her children from convulsions.
(E) Middlesex.—A fitteenth child; menstruated at 18;

married at 24; had one still-born child only. (F) Middlesex.—Menstruated at 10; married at 20; has suffered from typhus and variola, from hæmorrhage in last week of seven months' pregnancy, and from prolapsus uteri;

menstruates during lactation; her children suffer from con-

(G) Scotland. - Menstruated at 17; married at 25 a phthisical husband, and at 44 a healthy one; had one child only, delivered by forceps; ceased to menstruste at 48.

by lorceps; ceased to mensurance at 4s.

(II) Scotland.—Menstruated at 14; married at 17; has suffered from menorrhagia, typhus, and searlet fever, from hemorrhage during pregnancy, and milk fever after.

(I) Cork.—Menstruated at 15; married at 22; had searlet from the search of th

fever badly; bore one child, who died of convulsions.

(J) Cork.—Menstruated at 13; married at 28; had a severe

(d) Cork.—Memoriusted at 10; married at 24; no children; one abortion; health ruined by measies, harmoptysis,

and typhus fiver.
(L) Cheshire.—Menstruated at 19; married at 20; again at 30; aborted twice; bore one child footling, who survived five

days; suffers from bronchitis and hepatitis.

(M) Wales.—Menstruated at 12; had variola at 13; married at 21; and had two children. In her second pregnancy she was frightened by a deaf and dumb boy; her child was born deaf and dumb; she kept at the breast three and a half years. and has had no children since; during lactation she menstruated

Most of these women were very good-looking; but, with all deference to Mr. Mill, the best wives are those whose thoughts oscillate between the co-operative stores, the sewing-machine, and Robb's biscuits. I am, &c.,

Woolwich, May 12. FRANCIS R. HOOG, M.D.

ARSENICAL WALL-PAPERS. LETTER FROM DR. DAVID B. DALZELL.

[To the Editor of the Medical Times and Gazette.]

Sin,-Several years ago, public attention was called to the danger of green paperhangings. For a time, people took fright, and arsenical wall-papers became unfashionable. Within the last few months I have met with so many cases of injury to health from this cause-and in some cases very serious -that I feel it incumbent on me to call the attention of the Medical Profession to this unsuspected—but, as I believe, by no means uncommon—source of disease.

by no means theoremon—source or ansease.

If I may treepass so far on your columns, I will give one
case very briefly as an illustration. I had lately a case of
scarlet-fever, which I treated in the method so successfully
employed by Dr. Budd, of Bristol—isolating the patient and caploying general inunction with camplorated oil, followed by hot soaping and tepid bath next morning. Neither the husband nor child of the lady took the fever.

When the disease was declared, the husband went into a small bedroom. The very first night, while sleeping in it, he felt much discomfort, his sleep being unrefreshing and disturbed by frightful dreams, and he rose in the morning languid and weak, with much nauses and dull headache. Towards evening the symptoms shated considerably. The second night, and day following, there was a repetition of the same symptoms-with the morning exacerbation and evening abatement. He now changed his room, and from that hour his symptoms steadily and gradually disappeared. A servant occupied the "haunted chamber," and immediately became affected in the same way as her master; and on mentioning this to a fellow-servant, the latter at once replied, "Oh! you need at try to sleep in that room; I never could take any breakfast when I slept there!" She was not in the secret, but evidently believed there was something not "canny about the room

On being allowed to inspect the apartment, I very speedily gave judgment as to the cause of the mysterious visitation on the sleepers therein. "The green of the period" was palpably visible, although by no means abundant; and on testing

the paper the large quantity of arsenic evidently present fully justified the judgment I had given. I must not enlarge, or I could fill a few of your columns with histories of cases quite as clear and to the point as that which I have now briefly given. Can no "movement" be got up to render the manufacture of these papers charged with poison an illegal thing?
I am, &c., DAVID B. DALZELL, M.D.

Malvern, June 7.

NEW MIDWIFERY GLOVES. LETTER FROM MR. JAMES ROBERT LISTON.

To the Editor of the Medical Times and Gazette.] Sin,-It was my intention last week to have forwarded you a specimen portion of a newly-invented glove; but on Saturday last I was thrown from my horse, and have only now sufficiently recovered to send it you with this note. The want of such a contrivance, I think, has long been felt by many in the Medical Profession, and on numerous occasions I should have found such a thing invaluable. The great difficulty in making this protective covering for the hand was to construct it in such a manner as to preserve to that portion of the hand used in delicate manipulations the extreme sense of touch oftentimes so necessary in Medical and Surgical operations. This difficulty, you will see, is removed, and, in addition, the glove forms an air and waterproof covering, allowing perfect freedom of motion, and may be used in midwifery practice, skin diseases, diseases of women, and post-morten operations. The combined diseases of women, and post-mortem operations. portion, if moistened with water when on the finger, will leave the sense of touch perfectly unimpaired, and the smallest uneven surface may be appreciated as with the uncovered finger. I need scarcely draw your attention to the numerous risks that Practitioners run in the discharge of daily duties that require a protective covering for the hand. The whole of the glove is similar and as perfect as the portion I send you, and in use only requires to be moistened with water; oil or fatty matters are injurious to the substance of the glove, and in any case may be dispensed with. JAMES ROBERT LISTON, M.R.C.S.E.

I am, &c., James Robert Lis Kirkby Stephen, Westmorelaud, May 20.

. The glove is made of indiarubber, something like the ordinary indiarubber fingerstalls, except over the pulpy portion of the finger-point, where a piece of exceedingly thin skin is interposed instead of the rubber.

SIC VOS NON VOBIS. LETTER FROM DR. R. H. BAKEWELL.

(To the Editor of the Medical Times and Gazette.)
Sig.—I send you by book-post a copy of the Parliamentary paper just published, containing my reports on Dr. Beau-perthuy's treatment. I also beg to call your attention to another Blue-book in which some of my work appears, and, as I venture to think, without a due acknowledgment of its origin. In the report of the Army Medical Department for 1869, just out, there is a report on yellow fever at Trinidad, illustrated by two very elaborate meteorological diagrams, which were calculated from the rough notes at the observatory, tabulated and drawn by me, and lent by me to Staff Surgeon Johnstone, then at Trinidad. When I lent these diagrams, which I had made with the object of illustrating my own report on yellow fever, I concluded that, as a matter of course, report on yearson tever, a concussed tast, as a matter of collies, on yame, which was in the usual way signed to each one, would be printed with them. Instead of this I find them in the "Army Medical Report," inserted in Dr. Johnstone's paper, without any mame attached to them. On searching through Dr. Johnstone's report, just at the close I find the following observation :- " For the use of both these diagrams I am indebted to the courtesy of Dr. R. H. Bakewell, the officer of public health of this colony." As this scanty acknowledg-ment does not state that I am the author of the diagrams, and as I never before saw such diagrams printed without the name of the author affixed, I shall feel obliged if you will insert this note.

Dr. Johnstone gave me some numerical returns of cases in the military Hospital. When my report is published he will find that I have acknowledged his courtesy in a very different I am. &c., manner.

R. H. BAKEWELL, M.D., Medical Officer of Health for the Colony of Trinidad (on leave).

Waverley-villas, Hendon, June 7.

REPORTS OF SOCIETIES.

ROYAL MEDICAL AND CHIRURGICAL

SOCIETY. TUESDAY, MAY 23.

MR. CUBLING, F.R.C.S., President, in the Chair.

A PAPER, by Dr. CHARLES ELAM, was read on

PARTIAL ACUTE IDIOPATHIC CEREBRITIS,

This paper was intended as a continuation of one read during the last session of the Society on General Acute Cerebritis, showing some remarkable points of contrast between the two affections, which are so closely allied pathologically, and yet differ so completely in a clinical aspect, the most note-worthy feature of difference being the far greater severity of the symptoms in the local and limited form of the disease than those of the universal inflammation. The author referred briefly to the description given of general cerebritis, and showed that, although the anatomical characters of the cases were in some respects different, yet they were all true cases of inflammation of brain-substance, uncomplicated with meningitis, the differences arising from the varying periods at which death occurred. The annexed table indicates the chief differences between the general and the partial form of cerebritis, clinically considered. Among special symptoms, it was noticed that in general cerebritis the pulse was unaffected at the commencement; whilst in partial cerebritis it began with extreme depression, followed by great rapidity and subse-quent irregularity. The tongue is much less affected in the general than in the partial form, and the organic complications are much more aggravated and numerous in the latter. The most striking feature in the history of partial cerebritis is the occurrence of remissions in the course of the disease, often so marked as to simulate restoration to health. This was illustrated by some cases both of constitutional origin and arising from external violence. In two of these, origin and arising from where the patients had been for some time apparently mori-bund, there was so entire a remission of all the symptoms that for some hours nothing could be detected indicative of any disease whatever. One was a case of fracture of the skull, where there was a fissure extending from the middle of the left parietal bone down to the foramen magnum. This kind of remission, combined with the previous history, was shown to be characteristic of this disease, and to distinguish it from all others. The diagnosis of this disease is not difficult. It differs from the various forms of "softening" clinically, as thus: 1.

From the apoplectic form, in the absence of aphasis and paralysis, as well as other general features of progress. 2.

From the convulsive form, in the absence of epileptiform attacks at the beginning, and the greater constancy and duration of the convulsions when established later on in the affection. In this disease, also, convulsion lasts to the end; whilst in softening death is generally "tranquil and peaceful." 3. From the delirious form, by the mode of invasion, which is never by delirinm; and by the less marked character of this oy denrum; and by the less marked character of this symptom throughout. The pathological features also differ materially from white softening; the colour alone is a suffi-cient distinction from the "red" and "yellow "forms. Besides many other important differences, the section is distinctive, being depressed in partial cerebritis; very often elevated, as though swollen, in softening. The general aspect of the disease makes it most liable to be confounded with typhus. From this it is distinguished by the mode of invasion, and the marked pre-penderance of active brain symptoms. The etiology of this disease is closely allied to constitutional cachexine, chiefly of a tubercular nature, and to hereditary predisposition. The prognosis is very unfavourable; but there are considerations, both of a clinical and pathological nature, that lead to the conclusion that it is not always fated. In treatment, although little can be done of a curative nature, there is a fact which is occasionally of the highest importance to remember. For business sionally of the inguest importance of tensional to obtain a few or family reasons it is often especially desirable to obtain a few hours of clear intelligence. This occurs in the remissions already referred to; and the practical point in question is this -that this remission may be often insured in the early and middle stages of the disease by the exhibition of a smart purgative, as a drop of croton oil, with or without a few grains of calomel. It has little influence on the general progress or ultimate issue of the disease; but the effect for the time is frequently murked and unquestionable.

Tabular Vienc of the Contrasts between General and Partial Acute Idiopathic Cerebritis. OPERRAL CEREBRITIS. 1 PARTIAL CEREBRITIS.

1. Complications.

Described as inflammation | Never confined to the brainof the brain-substance alone, substance alone. Meningitis, local or general, always prethe meninges being unaffected.

sont 2. Extent.

Extending through the whole substance of the encephalon, except the meninges.

3. Period of Life. Occurs usually between the ages of 8 and 30, never after 35. Harely, if ever, occurs before the age of 40.

4. Mode of Invasion.

By fainting, or a very slight By vomiting. apoplectiform seizure.

5. Termination. Always in death. Very fatal, but perhaps not souniformly so as the "general"

form. 6. General Symptoms : Duration and Progress.

Symptoms comparatively mild, and wanting in general significance. Progress form and uninterrupted from commencement to death, which occurs between the second and twelfth day.

None.

Generally none.

Symptoms most varied and severe. Progress never uniform, but broken by remissions. sometimes so complete as to simulate perfect restoration to health. Duration from three to six weeks.

Always present; sometimes

7. Prodromata. of a somatic, sometimes of a psychical order, or both. 8. Paralysis.

Some marked weakness, but variable and dubious.

9. Convulsions. None, until very near the | Always present at some, and close. generally at an early, period of the disease; persistent to

the end. 10. Coma.

Only occurring at the close ! Ocenrs early, sometimes a the earliest symptom; depart of life. and recurs irregularly.

11. Delirium. Mild and inconstant. More irritable and violent in character; often muttering; not constant.

Dr. BROADBENT said the Profession would be greatly indebted to Dr. Elam if he succeeded in educing order out of the chaos of acute cerebral affections; but although he had at the Fever Hospital the opportunity of seeing many cases, which he watched carefully, he failed to recognise in his experience the description given as that of local acute idiopathic cerebritis. He was the more astonished at this as the features of the disease were so definite and striking, and such as could not fail to make an impression on any observer. He asked Dr. Elam how many cases of the kind he had seen and verified by post-mortem examination. He had met with similar morbid appearances only in pyaemic affections of the brain. In the case described at length he noted that, in addition to the local lesion, there was evidence of extensive and advanced meningitis, to which he should have attached more importance than to the limited affection of brain-substance, since this condition was often mischief, and death. He noted, also, that aphasia and paralysis were given as effects attending hæmorrhage, embolism, etc., characterising these lesions and distinguishing them from local acute idiopthic cerebritis, whereas these symptoms were indicative, not of the nature, but of the seat of the mischief, and would be produced by local cerebritis, as well as by hamorrhage,

if it involved certain portions of the hemisphere.

Dr. Surron asked Dr. Elam if he had made post-mortem examinations in all his cases of supposed idiopathic cerebritis, and if he examined the internal cars of the pationis mentioned in his paper. Dr. Sutton remarked that pathologists generally considered that cerebritis was dependent on some injury to the head, or to disease of the cranial bones, to disease of the ear, or to some pre-existing disease situated either in the brain or in other parts of the body, and that it was not an idiopathic affection.

Dr. Elam replied that he claimed no consideration for these cases, except such as arose from the fact that they were drawn from the life, and from death. Cases of a similar nature, about twelve or unwards, had been noted, in all of which about twelve or upwards, nad oven noted, in all or wards remarkable intermissions had been observed; but in none to quite the same extent. In relating the cases, the absolute phenomena had been stated, and afterwards contrasted with those that were found described in our systematic treatises, on affections of the brain. Hence srose the diagnostic marks that had been quoted as distinguishing between the affection under consideration and the various forms of softening of the cerebral substance heretofore described. In reply to another question, Dr. Elam stated that he had not been in the habit of investigating the internal ear in these cases.

ing the internal ear in these cases.

A case of Rony Andyloiss of the Knee-joint treated by
A case of Rony Andyloiss of the Jonis Stromeyer Little,
communicated by the Passinszur, in which the author
gives an account of a case of bony anchylosis of the
knee-joint in a child aged [4, in whom the limb was
fixed at a right angle. The anchylosis was divided subcutanewally by means of a carpenter's chief, and by an extending apparatus the limb was straightened so as to allow of locomotion three weeks after the operation. The author discusses the plan of dividing the long bones by means of a saw for the cure of deformity, and concludes that for bony anchylosis of the knee-joint subcutaneous osteotomy by means of a saw is impracticable. The case is believed to be the first instance where subentaneous osteotomy has been performed in this country for the relief of bony anchylosis of a

large joint.

Mr. Care Jackson expressed the opinion that excision of the knee-joint would be impracticable in a case of complete bony fusion.

The PRESIDENT: That is to say, in a case where there was

no joint to excise.

Mr. Care Jackson: Precisely.

Mr. SAVORY said that the success of the very interesting operation which had been described was no doubt due to the fact that, after the limb had been straightened, the knee-joint again became firmly anchylosed. Anything like useful motion the joint in such cases was out of the question, and, had the tibia remained movable on the femur, it would only have allowed the recurrence of distortion, and the limb would have become proportionately useless. That threefold deformity, the result of long-continued disease of the knee-joint—extreme flexion, partial dislocation backward, and rotation outward of the leg upon the thigh-was one of which the permanent remedy was almost beyond the reach of any form of apparatus, and in many of these cases excision had been resorted to as the sole available means, for by this operation the limb is not only straightened, but the tibia is rendered immovable by becoming one with the femor

one with the tenur.

The Parsupert, having assisted at the operation performed
by Mr. Little, was able to bear testimony to the fidelity of
the description of it in the paper, and to its success in restoring a useful limb. Had Mr. William Adams been presort, the Preddent would have inquired whether he had heard of Mr. Little's operation on the knee before performing, a

year afterwards, a similar operation on the hip-joint.

Mr. Care Jackson said he thought he might venture to say that Mr. Adams was acquainted with Mr. Little's operation.

The Passident thought, then, that the success of Mr. Little's

case must have given Mr. Adams great encouragement and case must have given air. Adams great encouragement and confidence in undertaking his operation. As Mr. Little was in a distant country, and as he (the President) had com-numicated the paper to the Society, he felt called on to support and vindicate Mr. Little's claim to originality in performing a subcutaneous operation on a completely anchy-losed joint, for rectifying the position of the limb.

An anonymous donor has contributed £1000 to the National Orthopredic Hospital, Great Portland-street.

THERE are now regular courses of lectures by Turkish Professors, at the University of Constantinople, on natural philosophy, natural history, etc., which, it is expressly adver-tised, are in a plain style.

THE PATHOLOGICAL SOCIETY. TUESDAY, MAY 16, 1871.

J. Coopen Forsten, F.R.S., Vice-President, in the Chair.

(Concluded from page 647.)

Dr. EDWARDS-CRISP exhibited some Casts illustrative of Diseases of the Eye in the Lower Animals. Cataract, he said, was not very common in monkeys, but was prevalent among lemurs and bears. Among marsupials it was still more frequent. Birds often suffered from opacity of the cornea, as did reptiles; but cataract did not occur in these. It was common in dogs and

Dr. PAYNE exhibited an Enlarged Spleen and Lymphatic Glands from a case of Hodgkin's disease. The case had presented during life the usual symptoms of this disease, such as progressive ansemia and splenic enlargement, but there was no lymphatic tumour visible externally. Death took place after marked febrile symptoms. After death the spleen was found marked returils symptoms. After death the spicen was tound to be very large, and contained the usual "lymphadenoid" growths: many lymphatic glands, especially those of the thorax, were calarged, and chiefly converted into a hard, glistening, yellow material, such as is commonly seen in these cases; but some parts of them contained erambling, caseous masses, and thus resembled what are commonly called scrofn-lous glands. The chief interest of the case, however, lay in the fact that the lnngs, pleurse, and membranes of the brain were affected with acute tuberculosis, being studded with grey miliary tubercle. This disease was evidently scute, and subsequent to the glandular affection, thus confirming, to a certain extent, the views of those who believe that miliary certain extent, the views of those who believe that inhary tubereld elephens upon the previous existence in the body of caseous masses. It also supplied a transition between the peculiar enlargements of glands first distinguished by Dr. Hodgkin and the so-called scrofulous affections.

Dr. Payne also exhibited a Tumour, removed by Mr. Spencer Smith, from the breast of a female whose family history was cancerous. It was composed of a hard central mass, surrounded by cystic cavities, and showed a remarksble combination of structures. The hard central mass was not distinguishable from scirrhous cancer, while the surrounding cysts contained a highly vascular villous growth, precisely resembling the "villous cancer" of Rokitansky, described by that pathologist as usually, though not always, occurring on the inner surfaces of hollow

OTHRUS.

Dr. CRUCKNELL exhibited a curious Malformation of the Gall-bladder, from a man who had been a patient in the Great Northern Hospital. There were two openings in the bladder, so placed that the whole of the bile must pass through it.

Dr. MURCHISON exhibited the Kidneys of a patient who had died of Acute Ursemia. The youth, aged 18, had suffered from no bad symptoms until his fatal illness. Ten days before admission he had sudden pains in the back; five days after he was drowsy, but did not take to bed; and in five days more he was drawny, old that not take to bed, and in are days more the was taken to the Hospital, when he locked stupid, and his tongue was dry and brown. His pulse was not quick, his temperature was 90°. There was no dropey or anemnis; his urine was limpid, specific gravity 100°, and contained a small trace of albumen. Purgatives, with digitalis and potaes, were given at first with good effect, but he gradually got worse, and ultimately died from convulsions and coma. His blood was dark. His kidneys weighed 13 oz. and 3 oz. respectively. The appearance was not that of an ordinary granular kidney, but was rather lobular. Perhaps some of the vessels were ob-structed. The tubes had not been examined.

Structured. Inc tudes had not ocen examined.

Mr. Wyarv exhibited a specimen of Perforating Ulcer of
the Stomach, causing speedy death from homorrhage; and Amputated Hypogradian Penis; and several specimens of
Gunshot Injury from Paris. He said that excision of joint near which a bullet had entered entirely failed, owing to the extensive splintering produced by the chassepôt. There were also preparations showing the possibility of securing a hleeding vessel in a suppurating wound, and certain injuries to the sciatic nerve found in connexion with acute purulent cedema of the limb.

MR. A. H. SMEE, in a recent report presented to the Gresham Assurance Company, on the causes of death in 1060 cases where claims have been made on the Society, states "that diseases of the digestive organs greatly exceed, in England, the relative number found in other countries,"

OBITUARY.

.

DR. JAMES WATSON. ANOTHER eminent member of the Medical Profession has passed away from our midst. On Saturday, a large circle of private friends and the Fellows of the Faculty of Physicians and Surgeons paid their last tribute of respect to the remains of Dr. James Watson. Dr. Watson was born in Glasgow in 1787, where he was educated, first at the Grammar School and then at the University. He passed through a full curriculum of the arts classes, in which he greatly distinguished himself. His original intention was to study for the Church, and he joined the divinity classes, but soon after changed his intention and took to Medicine. In 1810 he was admitted a Fellow of the Faculty of Physicians and Surgeons. He rapidly acquired a very extensive practice, and for fifty years was one of the most prominent and distinguished Practitioners in Glasgow. At an early period he was appointed one of the Surgeons of the Royal Infirmary, but he soon abandoned the Surgical department of the Profession, and devoted himself to the more congenial practice of Medicine. In 1812 he was appointed one of the Physicians of the Infirmary, and he was also Physician to the Fever Hospital in Clyde-street. He was three times elected President of the Faculty of Physicians and Surgeons, and for many years he was the "Father of the Faculty"—a title due to him -a title due to him not only in virtue of his seniority, but on account of the paternal interest he long evinced in the well-being of the Corpaterial interest he long evinced in the weit-being of the Cor-poration. So highly did the Faculty appreciate his many and valuable services, that they have hung his portrait in the Faculty Hall, and founded a prize in his honour, which bears his name. At the passing of the Medical Act, in 1858, towns as had not been seen of the faculty in the General Council of the United Kingdom, an office which he held till failing health obliged him to retire. In the early and difficult deliberations of that Council his great practical experience and sound judgment were much appreciated. He took a very deep interest in elevating the standard of preliminary educa tion for Medical students. About ten years ago he gave up the active duties of the Profession, and has since passed his days in honourable retirement, spending much of his time in reading and writing. His friends, on calling frequently, found the old man enjoying himself with the classical studies of his youth. Dr. Watson's wife predeceased him about ten years. He leaves one son (Dr. Eben, Watson, the well-known Surgeon and Professor of Physiology in Anderson's University) and four daughters. Dr. Watson was a man of excellent talent, great mental and bodily activity, and considerable versatility of attainment. His life was mainly devoted to the active duties of his Profession, which he pursued with devoted ardour and success. He was for many years an elder of the Church of Scotland, and, since the disruption, of the Free Church. He was a man of deep and unaffected piety; and those who knew him best were aware now thoroughly his whole life was governed by Christian principles. He died peacefully on May 30, in the presence of all his children. Dr. Watson contributed several papers of value to the Medical periodicals. He was an esteemed clinical teacher, and an excellent practical Physician.

SAMUEL MORTON HEWITT, L.R.C.S.I., &c.

It is with deep regret that we have to record the death of the above talented Physician at the early age of 25 years, which melaneholy event occurred at his residence in York-street, Dablin, on the thin int. Mr. Hewitt was originally intended for commercial pursuits, but with remarkable energy and perseverance educated himself for the Medical Profession, in which, there is no doubt, had his life been spared, he would have attained a high position. As Physician to the City of Dablin that the profession of the profession is the profession of the Royal College of Surginos, in which appointment he succeeded his brother, Mr. David Hewitt, some eighteen months ago, he had given evidence of the possession of qualities which are always certain to command success.

It is now little more than a month since Mr. Hewitt read a most able paper, at a meeting of the Medical Society of the College of Physicians, on the present state of therapeutics.

It is to be feared that overwork in the Hospital, the classroom, and the study contributed largely to the fatal termination of an attack of typhus fever, to which he succumbed on the morning of the fitteenth day.

DR. DAVID WILLIAMS.

Tux subject of this notice sprang from a respectable family in Carmanthenshire, became a Member of the College of Surgeons in 1809, then entered the navy, where he remained nine years, chiefly on the Mediterranean station. On his retirement from the navy he graduated at Glasgow, and practised as a Physician at Liverpool, and was connected with the Liverpool Dispensary. He was the author of several valuable papers which appeared in the Medical periodicals, and was much which appeared in the Medical periodicals, and was much continued to the control of the second cont

NEW INVENTIONS.

FLUID MEAT.

(Prepared by Mr. S. Darby, 140, Leadenhall-street.)

WE have inspected several preparations by Mr. S. Darby, of Leadenhall-street, which may be worth the notice of our readers. We believe it was Dr. Marcet who started the idea readers. We bessere it was 197. Marcet who started the store of acting upon meat with pepsine, so that when introduced into the stomach it might have already passed through the chief process of digestion, and have been rendered soluble by the action of pepsine with acid. Mr. Darby lays no claim the original tides, but deserves the credit of patiently working it out, and bringing the result before the public in an available form. His preparation, called "Fluid Meat," is a concentrated semi-fluid mass, consisting of the finest parts of the meat (including, of course, the fibrine in a soluble form) with the natural juices. In what respects, it may be asked, does it differ from Liebig's extract, or from various other concentrated preparations of meat? The answer is, that in addition to the soluble and crystallisable matters contained in the juice or extract of flesh, it gives the fibre itself in a state of solution. Hence it is not only the fillip or stimulant which juice of ment is, but it contains a certain quantity of substantial food to nourish the substance of the tissues as well as to assist in their work. The cases in which it is believed that the "fluid meat" will be useful are, in the first place, those of extreme dyspepsia, with inveterate vomiting, whether arising from hysteria, pregnancy, ulcer, or other diseases of the stomach, etc., in which it is desirable that the stomach shall be used as an organ of absorption and be spared the trouble of solution.

To these may be added cases of debility and anamia, in which the Practitioner who has nearly got to the end of his quiver will be glad to hear of any new remedy. Moreover, we learn that there is a class of patients, or rather of impatients, who have discovered the convenience of these already digested viands, and these are the stockbrokers, and other busy City men, who cannot allow their stomache to use one atom of the nervous force which the brain is using in moneymaking, and who find the "fluid meat" pass into their circulation without the flatulence and stomach-trouble which would attend the effort to eat ordinary meat or soup, and find it infinitely more "staying" or satisfying than Liebig's extract. We understand that considerable difficulties have had to be overcome in stand that considerable difficulties have had to be overcome in these preparations, more expecially to prevent the bitterness which we are told is always created when fibrine is throughly dissolved in pepsine with hydrochloric scid. This seems to be very effectually accomplished by the addition of a small quantity of pancreas to the mest before solution. This is a curious fact. The acid is afterwards converted into commer sail, which has its well-known tasks. The "full meat" is easily combined, if desired, with gelatinous and other soup elements and flavourings.

We believe that Mr. Darby's process is intended for the germ of an effort to utilise the meat fibro now wasted on a large scale in the preparation of Liebig's essence.

TRANSPARENT ELASTIC TISSUE.

Eleatic Tissue Company, 39, Leather-lane, E.C.)
Thus is described by the manufacturers as "transparent clastic
tissue, a perfect substitute for oiled silk, guttapercha, etc., for
Surgical purposes," and the description is hardly just, insamuch as the elastic tissue seems preferable to either. Oiled
silk is ap not to lie evenly, and guttapercha is brittle and
harsh; but this transparent tissue is softer than the finest
cambric, pilable, free from weight, and easily adapted to were;

surface, and, thin as it is, it is strong enough. It may answer, in the first place, as the oiled silk does -to maintain the moisture of water dressings, and to place on the outside of poultiess and fomentations to hinder the wet from reaching the patient's clothes: and, if need be, it can be washed, and used more than once. But, in the next place, there are other purposes for which we should like to try it, such as to make finger-stalls for cut fingers, and to serve as sticking-plaster; this might be found very convenient. Again, we should like to try it instead of paper to cover books, and protect them from soiling by the of paper to cover books, and protect them from soiling by the fingers. The same Company make a capital "unpermeddle catton-scool," in sheets. Now, of all remedies for local pain, mero wadding is one of the simplest and most effective. There is many a neuralgia and local rhounatism which is cured by merely covering the skin from the air, and for this purpose nothing can be more handy than the impermeable cotton-wool before us.

TENAX.

(Southall, Son, and Dymond, Manufacturing Pharmaceutical Chemists, Birmingham.)

Turs is described as an "absorbent and antiseptic" preparation, specially prepared for Surgical purposes, and to supersede lint for dressings. It seems to be a finely-carded hemp or tow, perfumed with tar, agreeable in smell, and crisp to the touch and capable of forming a good compress for ulcers, compound fractures, and other conditions attended with profuse suppuration.

NEW BOOKS, WITH SHORT CRITIQUES.

Light Science for Leisure Hours; a Series of Familiar Essays on Scientific Subjects, Natural Phenomena, etc. By RICHARD A. PROCTOR, B.A. Camb., etc. London: Longmans. 1871. Pp. 316.

e. This work is a reprint of various essays which have appeared in Frazer's Magazine, Nature, the Daily News, Chambers's Journal, and other periodicals, and which we believe deserve to be preserved permanently. Popular scientific articles are apt to be flimsy, shallow and, egotistical—sometimes even funny: there are none of these defects in the work before us. The subjects are chiefly the latest researches in astronomy, geology, and physical geography, and anyone who desires the latest accessible information on the aurora borealis, the magnetism of the earth, the nature of the sun, the Gulf stream, floods, tornadoes, and earthquakes, may turn to Mr.
Proctor's pages with benefit. He has taken the trouble to
slay the slain Starkian dogma of the influence of marriage on longevity, and has a paper on dast as a vehicle of disease, anent which it may be worth his while to know that worth his while to know that during the last cholera epidemie the streets of well-regulated parishes in London were watered with solution of carbolic acid, in order to prevent the dangers arising from dust infected with organic and disease-bearing germs.

Anno Domini 2071. Translated from the Dutch original, with Preface and additional Explanatory Notes, by Dr. ALEX. V. W. BIEKERS. William Tegg.

• • This brochure is an admirable adaptation for the English reader of a work which has attracted great attention in Holland. It gives a humorous, graphic, and stringing description in Holland. It gives a humorous, graphic, and stringing description of what might be expected to be seen in the year 2011. The author is supposed to have foreshadowed the events and changes described whilst sleeping in his arm-chair. The little book will well repay half an hour's permada, and is well-televilated for a railway companion.

THE "OSSUAIRE" UNDER ST. LAURENT .- In the Gazette THE "OSSUAIRS UNDERGY. LAURENT.—In the crossess of May 13, M. Parti gives a detailed account of the appearances of the skeletons found in the curious susuairs found in the vaults of the Lady Chaple of the church of St. Laurent, and, in illustration of the fact that bodies in the time of tumults in Paris have often been deposited under churches and other places, adds-" Even quite recently-since March, 1871—the gates of Paris being closed by those who have seized power, the Pompes Functores have been obliged to deposit a certain number of the bodies in churches to await quieter times and a more easy circulation, for it is a very remarkable circumstance that, cumstance that, during revolutionary storms, the very dead themselves are deprived of the liberty of ingress and egress, to the great inconvenience of the living,"

MEDICAL NEWS.

ROYAL COLLEGE OF SURGEONS. - The following Members of the College, having undergone the necessary examinations for the Fellowship on the 25th, 26th, and 27th ult., were reported to have acquitted themselves to the satisfaction of the Court of Examiners, and, at a meeting of the Council on the

sth inst., were enrolled Fellows of the Council on the Sth inst., were enrolled Fellows of the College, viz.:—
Godall, William Preston, L. S. A., Newball-street, Birmingham, Diploma Borter, Charles M. L. Verkell, and J. Verkell, and J. Verkell, S. G. George's Roopital, Borter, Charles M. B. Lond, and J. S. A., Old Square, Birmingham, May S. 1980, of the London Roopital, Bardeett, Thomas Hiron, M. B. Lond, and J. S. A., Old Square, Birmingham, May S. 1980, of the London Roopital, May S. 1980, of the London Roopital, State of the Roopital, State of the Roopital, Square, William, J. R. C. P. Lond, Pertlanderuyare, Dynamuth, April 24, Square, William, J. R. C. P. Lond, Pertlanderuyare, Dynamuth, April 24, Churchill, Prederick, M.B. and G. M. Ella, Great George-street, Manager J. Lond, Hongardon, Berks, January 21, 1980, of Guy's Hoopital, State of the Roopital, State of the Roopital Sta

pital.
Tait, Bobert Lawson, L.R.C.P. Edin., Walerloo-street, Birmingham,
January 25, 1870, of the Edinburgh and Birmingham Hospitals.
Cooke, Thomas, M.D. Paris, Herne-hill, January 26, 1871, of the Paris

Hospitals. Seven candidates having failed to acquit themselves to the satisfaction of the Court of Examiners, were referred to their

Hospital studies for one year.

Aporthecaries' Hall. — The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practice, on Thursday, June 1, 1871:-

Corrie, Alfred Thomas, Plymouth.
Hodges, Frank Henry, Birmingham.
Langdale, Henry Marmaduke, East Heatley, Sussex.
Magrath, John, Forset-row, East Grinstead.
Maisey, Frederick Thomas, Cheltenham.
Passmore, Frederic George, Brighton.

The following gentlemen also on the same day passed their first Professional examination:—

Austin, Corneley, University College.
Bland, George, St. Bartholomew's Hospital.
Jackson, Francis Edward, St. Bartholomew's nea's Hospital.

APPOINTMENTS

. The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

BONOVAN, DEVIS DEMPREY, L. R. C.S. Ellin, I. R. C.P. Ellin, L. A. H. Dub.
—Medical Officer to the Sub-District of the Cor's Disposaray,
Garmers, E. D. L. R. C.P. Ellin, L. F.P. R., and L. R.A. —Hysician to the
City of Glasgow Friendly Society for the Bolfast and Ballymacarret Districts, Antima and Down.

Green, Alluria and Down.

Hantinos, Mr. Ganosia.—Medical Officer to Sl. Almo's Royal Schools, sice Mr. George Rice Ord, resizeed.

Howard, Jone, M. D., M.R. C.S. R., L.M.—Resident Assistant Medical Officer at the Littlemore Pauper Lunatic Asylum, sice Dr. Skelton, resigned.

STOR, JOHN THOMAS, L. R.C.S., L.M. Edin., and L.S.A.—Resident Medical Officer to the North Staffordshire Infirmary.

Mandows, Dr.—Consulting Physician-Accoucheur to the St. John's-wood and Portland-town Provident Dispensary.

SMITH, Dr. H. L.—Medical Attendant pro tem to the Royal Irish Con-stabulary at Ballacolla, Durrow, and Cullshill, Queen's County.

Walsh, Patsick Charles, L.R.C.P. Edin., M.R.C.S. Eng.—Medical Offi-cer, Public Vaccinator, Registrar of Births, &c., for the Gurteen Dis-pensary District of the Boyle Union.

BIRTHS.

HAYWARD.—On May 24, at Overton, Hants, the wife of Sidney Hayward M.D., of a son, who survived only two days.

Shith.—On May 31, the wife of Cohen Smith, M.D., of the Madras Medical Service, of a son. Smith.—On June 1, at Ivy House, Cheshunt, Herts, the wife of Abbotts Smith, M.D., M.R.C.P. Lond., of Frince's-street, Hanover-square, of

Rickand.—On April 24, at Masulipatam, India, the wife of F. M. Rickard.
Assistant-Surgeon of H. M.'s Indian Army, of a daughter.

Walker, L.R.C.P. Edin., of a daughter.

MARRIAGES.

Divior-Brown.—On June 1, at the English Presbyterian Church, St. John's-wood, William Carstares Dunlon, youngest son of the late John Dunlon, Esq., of Gairbraid, Lanarkshire, to Lacy Helen Dunnos, eldest daughter of the late William Carastard Brown, M.D., H.M.E.A.

GRAFT—SRITH.—On June 1, at 17, Dick-place, Edinburgh, Robert Donald Grant, eldest son of the late William Ornat, Esq., of Thornhill, Forres, Morayshire, N.B., to Eliza Johanna, eldest daughter of John Stuart Smith, M.D., Staff Surgeon-Major (retire).

Smith, M.D., Staff Surgeon-Major (retired).

Harmstoren-Salson-Oo-June 1, at Christ Church, Kensington, E. R. Harmston, oldest son of E. H. Harrington, barrieter, Hallitz, Nova Harmston, Staff Staff

the Rev. John Durmst, M.A., vicar of pressured, Hauss. Scorett.—Reptit.—On June 6, at 81. Janes-the-Less, Plymouth, Thomas Edward Scobell, M.R.C.S., Bidgway, Devon, second ions of the late Rev. J. S. Scobell, Vicar of S. Kew, Cornwall, to Elizabeth Rendle, youngest daughter of Edmund Rendle, M.D., Plymouth.

Turrono—Wars.—On June 5, at Church Langton, Leicestershire, Arthur Turford, M.D., Boston, Lincolnshire, to Henrietta Bertha, niece of Joseph Wren, J.P., Boston.

DEATHS.

Baillin, Natta Julia, younger daughter of Neil Benjamin Baillie, Esq., Bengul Medical Service, at Eastbourne, Sussex, on May 31, aged 2 years and 5 months.

and o monns.

DASTY, WHILLIAM, M.D., half-pay, 6th Ioniskilling Dragoons, at his residence, 8, Hanover-street, Bath, on June 5, in his with year.

SKOLAND, WILLIAM, M.D., of Henley-road, Ipswich, at Lowestoft, on June 1, in the 73rd year of his age.

HERNER, JOHN, M.D., at Beechlolm, Tunbridge Wells, on June 3, aged 71. LUCAS, T. Parstwood, M.D., at Brecon, South Wales, on May 29, aged 69. Marris, Mary Ass, reliet of the late George Martin, Esq., formerly Surgeon 55th Foot, and of Clare, Suffolk, at 4, Pembroke-road, Kensing

ton, on June v.

Macanisos, Sinox, Surgeon, at Bicester, after two days' serious illness, on
June 2, in his 90th rear.

Narss, Harst Leorota, M.R.C.S., L.S.A., late of 10, Albany-villas,
Chiftonville, Brighton, at 30, 8t. George's-square, on June 6, aged 53.

STEVENS, SARIJ JAR, chiest child of Robert Ingram Stevens, Surgeon, at Hoblesdon, Herts, on June 4, aged 19. STEVENS, PLAIN, JAMES OF the International Stevens, Surgeon, at Hoblesdon, Herts, on June 4, aged 19. STEVENS, ELLA, widow of the late Dr. John Grant Stewart, C.B., Inspector-General of Naval Hospitals and Fleets, at View Mount, Inverness, on June 4.

Watson, James, M.D., at 5, Burnbank-gardens, Glasgow, on May 30, aged 83.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession. made, and the day of election (as far as known) are stated in succession. Brustsonian AND MIDLAND FERR HOSPITAL FOR BICK CHILDERS — Two Extra Acting Physicians and an Ophthalmic Surgeon. Applications and testimonials to the Secretary, at the Out-patient Department, Stechhouselane, addressed to the Medical Committee, on or before June 22.

same, sourcesed to the accusal committee, on or become quarter. Resident Binourous and House-Surgeon: must have both Medical and Surgical qualifications and be registered. Applications and testimonials to the Chairman of the Committee of Management, on or before June 26. Election on July 4.

DEVON COUNTY LUNATIC ASYLUM.—Assistant Medical Officer. Applica-tions and testimonials to Mr. T. E. Drake, Solicitor, Exeter, the Clerk to the Committee, on or before June 20.

Erox Union, Brucks.—Medical Officer and Public Vaccinator for the Stoke District. Candidates must have the qualifications preserbed by the General Orders of the Poor-law Board. Applications and testimonials to Mr. R. H. Barrett, Clerk, on or before June 12. Election on the 13th.

10 M. A. Li. BAITSEI, LISTER, OR OF COUTE JUNE 12. EMECLON OR INF JULY EXPENDED IN FINIANCE, "Physician; must be a Graduate in Medicine of one of the Universities of the United Kingdom, or a Fellow or Member of one of the Colleges of Physicians, and be duly registered. Applications and testimonials to John Marsdon, Esq., Hon. Sec., on or before July 2.

Lezzos Puric Dispessany.—Resident Medical Officer; must be duly qualified. Applications and testimonials to Mr. John Horsfall, 31, Albion-street, on or before June 14.

Althon-street, on or offers agnet 14.

Likenstrik Invienant And Perra House.—House-Surgeon and Apothecary; must have both Medical and Surgical qualifications. Applications and testimonials to Mr. T. A. Wookes, Secretary, on or before June 5.

Election on June 15.

Liverion on sune is.

Liverion Desermance.—Assistant Resident House-Surgeon; must be duly qualified, and unmarried. Applications and testimonials to the Secretary, one referre June 29. The attendance of candidates will be required on the following day at 2 o clock p.m.

LONDON SCHOOL OF DESTAL SURGERY, 32, SOHO-SQUARE.—Lecturer on Mechanical Dentistry; must be L.D.S.R.C.S. Eng. Applications and testimonical to the Honorary Secretary on or before June 15.

testimonials to the Honorary Secretary on or testors ums so, Lerseant UNOx.—Medical Officers wanted for fire districts of this Union, Candidates must have the qualifications prescribed by the General Orders of the Powerlaw Board. Further information may be obtained of Mr. John Hoggarth, Circle, 87, Church-street, Lancaster, to whom applica-tions and the contraction of th

MACCLESPIELD DISPENSABLY.—House-Surgeon; must have both Medical and Surgical qualifications. Applications and testinonials to the Secretary, on or before June 10. Election on the 18th.

Secretary, on or before June 10. Electron on the 10th.
METROPOLITAN FREE HORPITAL, DEVOSREES-SCIERS, CITY.—AssistantPhysician; must be a Member of the Royal College of Physicians, England, or pledged to become such within twelve mouths, if tected. Applications and testimonials to Mr. Geo. Croxton, Secretary, on or before

Somener Courty Asylum, Wells.—Assistant Medical Officer; must be duly qualified and registered. Applications and testimenials to the Medical Superintendent.

WORCESTER GENERAL INFIRMART.—Dispenser; must have had considerable experience. Applications and testimonials to Mr. A. P. Watkins, Secretary, 50, Foregate-street, Worcester, on or before June 17.

POOR-LAW MEDICAL SERVICE.

. The area of each district is stated in acres. The population is computed according to the census of 1861.

RESIGNATION.

RESIGNATION.

HESIGNATION.

Bicester Union.—The Bicester District is vacant; area, 15,767; population, 5523; salary, £70 per annum. Also the Workhouse; salary £40 per

APPOINTMENTS.

**Printing Bains...—Henry B. G. Rust, M.E.C.S. Eng., L.S.A., to the Flackingfield District.

**Chortice Usins...—Henry William Webster, L.B.C.P. Ellin., M.B.C.S. Eng., Assistant Resident Medical Officer at the Workhouse.

District Schools David Evans, L.B.C.P. Ellin., L.B.C.S. Edin., to the Variation and Computer Schools** Characteristics and Characteristic

Madley District. ...-Chautes Bradley, F.R.C.S. Eng., L.S.A., to the Work-

Boulse, Sudbury Union.—John J. Ellis, L.R.C.S. Edin., to the First District, Thornbury Union.—Nynian H. Lower, M.R.C.S. Eng., L.S.A., to the Almondabury District.

TO-DAY, Friday, June 9, at 3 p.m., Professor Huxley will d stribute the prizes at Charing-cross Hospital, when it is expected that he will deliver an address.

DR. GUY's third lecture "On War in its Sanitary
Aspects, with special reference to the period for 1793 to 1815,"
will be delivered on Tuesday, the 13th, and not Wednesday,

the 14th, as previously stated. PROFESSOR BIRRETT, F.R.C.S., brought his course of lectures at the Royal College of Surgeons to a close this day (Friday), and in the ensuing week Mr. J. W. Hulke, F.R.S., will commence his course of lectures.

DR. SANDFORD has been elected Surgeon to the Royal

Asylum of St. Anne's Society.
Mr. P. L. Burchill, M.B., F.R.C.S., has been elected Surgeon-Accoucheur to the City of London Lying-in Hospital, City, road

MR. E. J. H. BOOTH, having resigned as House-Surgeon to the Huddersheld Infirmary, preparatory to commencing practice at Mirfield, has been presented with a large Bible and a complimentary letter.

HER ROYAL HIGHNESS THE PRINCESS OF WALES

has sent a donation of twenty-five guiness to the National Hospital for Consumption, Ventuor. THE HOSPITAL FOR SICK CHILDREN, Dyko-road, Brighton, will be publicly opened on the 28th inst. THE WOSPITAL FOR SICK CHILDREN has bequeathed THE widow of Mr. Charles Maclarou has bequeathed

£2500 to found a scholarship connected with the University of Edinburgh, and £200 to the Royal Infirmary.

THE St. Pancras Board of Guardians have conferred the

appointment of midwife on Mrs. Jones, widow of the late lamented Dr. W. T. Jones, who was for many years in active practice in the neighbourhood of Kentish Town.

By order of the Admiralty, Dr. James Salmon, R.N., To rote of the Admiralty, Dr. James Salmon, R.N., Inspector-General at Haslat, has had his tenure of office and the state of the present appointment, as a mark of approval appointment, as a mark of approval of the present MESSER, HERRY GRAVES AND CO., of Pall-mall, have presented the West London Hospital with twenty-three engavings for the three new wards to be opened at the end of

this month.

THE first Surgeon of the City of Durham steamer, Inman line, has been drowned at Halifax, Nova Scotia, by the upsetting of a boat in which he and the captain had gone out fishing.

AT a public meeting at the County Hall, Carlisle, the Bishop of the diocese in the chair, it was resolved to carry out a recommendation of the Committee to considerably enlarge the Cumberland Infirmary, and subscriptions towards that object were announced amounting to nearly £2000, besides numerous promises.

DR. TONY MOILIN, Delegate of the Commune to the The TONY MOLLIN, Delegate of the Commune to the offoff-Arrondisement, was condemned to death by the courtment of the Commune of the Commu

A LARGE deputation attended at the Paddington vestry, on Tuesday, to present a petition against the proposal to place a disinfecting apparatus on the Kensal-green-lane Wharf.

THE Lambeth police magistrate, last Saturday, fined Sarah Richardson and Walter Proben £3 each and costs, for exposing a young girl, named Lucy Pinfold, suffering from

small-pox, in the open streets. THE authorities in the Isle of Man are about to submit

to the insular Parliament a Bill making vaccination compulsory within the island

THE Medical Officer for Bermondsey reported to the vestry, on Monday, that the small-pox mortality in the parish had increased. In the previous week there had been no fewer

than twelve deaths from the disease. VACCINATION.—The Prussian Government has tried, in

consequence of scarcity of lymph, its application mixed with glycerine, and the result has been so successful as to lead to a public recommendation of the mixture to official vaccinating Surgeons.

VACCINATION IN THE LANCASTER UNION.—Of 2120 children born in the two years ended June 30, 1870, 100 died before successful vaccination, 52 ceased to reside in the union, 1897 were successfully vaccinated, and the remaining 13 are still unvaccinated on account of unfitness. Very few other unions could give such a satisfactory account of the working

of the Vaccination Act.

THE IRISH MEDICAL ASSOCIATION .- This Association THE THISH MEDICAL ASSOCIATION.—THIS ASSOCIATION held its annual meeting on Monday last, in the College of Surgeons, under the presidency of Dr. Jameson. Representatives from various districts of the country attended. A report was presented, which directed attention to the claims of Medical officers to retiring allowances, to fees for extra duties imposed npon them by the Legislature, and other questions affecting their interests. Meetings of the Poor-law Medical Officers (a new Association) and of the Irish Medical Benevolent Fund were also held.

ROYAL INSTITUTION OF GREAT BRITAIN. - At the general monthly meeting held on Monday, Juno 5, 1871, Sir general monthly meeting field on Monday, Juno 5, 1871, Sir Frederick Pollock, Bart., M.A., Vice-President, in the chair, Silas Kemball Cook, Esq., Miss Elinor Martin, Charles Bland Radeliffe, M.D., and Mrs. Radeliffe, were elected Members of the Royal Institution. The special thanks of the Members were returned for the following donation to "The Fund for the Promotion of Experimental Researches": -Sir Henry Holland,

Bart. (thirteenth annual donation), £40.

MEDICAL FACULTY OF STRASBURG .- This Faculty has been the first portion of the University to manifest the desire of renewing its activity under its new masters. Under the guidance of Professor Schützenberger, several of the teachers have announced the commencement of their lectures in the usual manner. Among these are Drs. Stober, Professor of usual manner. Among these are Drs. Stoleer, Professor of Ophthalmology, Wieger, Professor of Pathology, Flirz, Pro-fessor of Clinical Medicine; Bocckel, Professor of Surgery; and two Privatdecenten. This is regarded as a happy omen to be highly encouraged; and the question as to whether the lectures are to be delivered in the German rather than the French language is postponed .- Deutsche Klinik, May 13.

COMPOSITION AND QUALITY OF THE METROPOLITAN WATERS IN MAY, 1871.—The following are Dr. Letheby's

Names of Water	John House	F 50 00	Nitro	ogen.	Hardness.			
Companies.	Total 8 Matt per Gal	Oxygen quired Organ	As Nitrates &c.	As Ammo- nia.	Before Boiling.	After Boiling		
Thames Water Com-	Grains.	Grains.	Grains.	Grains.	Degs.	Digu.		
Grand Junction .	20:13	0.131	0.138	0.004	15.0	4:3		
West Middlesex .	18:87	0.021	0.136	0.000	14-2	3.6		
Southwark & Vaux-								
hall	19.57	0.134	0.118	0.003	14'6	4.1		
Chelsea	19:13	0.141	0.112	0.004	14:4	4.0		
Lambeth	19.57	0.136	0.146	0.004	14.6	4.0		
Kent.	26.83	0.014	0.538	0.000	90.0	5.2		
New River	19'13	0.049	0.136	0.000	14.8	3.3		
Fast London	10:47	0.060	0:195	0:001	19-9	9-0		

East London 1847 0/88 | U120 0/01 | 1.32 | 38 Note.—The amount of oxygen required to oxidise the organic matter, nitrites, etc., is determined by a standard solution of permanganate of potash acting for three bours: and in the case of the metropolitan waters the quantity of organic matter is about eight times the amount of oxygen required by it.

the quantity of organic matter is about cight tumes are amount on oxygen-cylined by it. from the to be elevand nearly colourse in all cases but the following, when it was consewhat turbid—tit, in those of the Lambeth and the Southwark and Vanxhall Companies, day to the metropolic during the preceding month was, according to the returns of the Water Companies to the Association of Medical Officers of Health, 10,024,037 gallons; and the number of houses supplied was 405,734. This is at the rate of 18 gails.

HY. LETHERY, M.B.

A NEW SUCCOUR TO THE WOUNDED .- In a letter addressed by M. Socin, Professor of Surgery, of Bale, he announces that an international society for the supply of artificial limbs to the wounded of both armies has been formed. All the expense these persons will be put to will be that of their journey to Bâle, where they will be kept for two or three weeks in a Hospital organised by the society, in order that the well-fitting of the limbs supplied may be assured .- Lyon Medical, May 28.

An application was made on Monday to the Court of Queen's Beneh, on the part of a Mr. Whiskin, a chemist and druggist at Welchpool, whose name had been removed by the Pharmaceutical Society from the register, to compel them to restore his name. His name was on the register le st year, but, on the ground of some alleged mis-statement on his part, his name was omitted this year, and the result was that he was being sued in the Welchpool County Court for penalties for dling drugs without being registered. He now contended that, under the Act, he had, upon certain conditions, a vested right to be registered, so that the Society had no right to remove him from the register. He appealed to the Council of the Society, but in vain. An affidavit made by the applicant stated that the agent of the Society at Welchpool, himself a chemist and druggist, had really objected to the applicant because he had removed to a shop opposite to his own, and this was succested as the real cause and reason of the removal of the applicant's name. The Court granted a rule nisi for a mandamus to the Society to compel them to restore the applicant's name to the register.
The skeleton of the little hippopotamus which was

recently born and died in the Zoological Society's Gardens, has been placed in the Museum of the Royal College of Surgeons, as likewise several beautiful preparations of the internal organs. Professor Flower, F.R.S., the Curator of the Hunterian Museum, will shortly communicate to the Zoological Society a memoir upon the anatomy of the hippopotamus, based on his examina-

tion of this specimen.

NOTES, QUERIES, AND REPLIES.

De that questioneth much shall learn much .- Bacon.

We are obliged to defer till next week our notice of Professor Guy's Lectures at the College of Physicians

M.R. Lond., Brecon.-We shall be very glad to receive your memoir. Compulsory Vaccination .- Dr. E. Haughton is thanked for his letter. agree with him that there are more than the two classes in the world of

which he speaks. Fectis.-A new edition of the book is nearly ready, and will probably be published next week.

Aberdonensis.-The apparently unmeaning term Baijan or Bejan applied to the freshmen of your University is a corruption of the old French name Bác jaune, or yellow beak, applied to the same class as being birds yet unfledged. The whole Scotch University system is closely ailied to that of Paris, the older ones being modelled on the type of the Sorbonne, and the younger ones being fashioned as those of more ancient date. The division into Nations in voting for your Lord Rector is also copied from the same ancient institutions

Constant Subscriber, Forkshire .- 1. A registered Member of the Royal College of Surgeons of England can recover in the county court for attendance and medicine supplied in a Surgical case. He cannot recover such charges in a Medical case. He would be entitled by law to midwifery fees. 2. If a person engages a qualified Practitioner to attend her in her confinement, and subsequently employs another Practitioner, the first gentleman engaged, if due and proper notice had not been given him, can recover his fee. There are several cases on record in which the fee has been so recovered. S. In such a case, though it is a great hardship to the Medical Practitioner, he has no remedy.

the Medical Practitioner, he has no remedy.

The Hollors and DB, Grancy AND DB, STALLARD.

The Hollors and DB, Grancy AND DB, STALLARD.

The Hollors are the properties of a dispute which certainly will not tend to deviate the Prefession in the cree of the public. It appears that a complaint was made against PA, and the Hollors are the Hollors and Hollors and Hollors and Hollors are the Hollors and Hollors and Hollors are the Hollors and Hollors are the Hollors and Hollors and Hollors are the Hollors and Hollors and Hollors and Hollors are the Hollors and Hollors and Hollors and Hollors are the Hollors and Hollors and Hollors and Hollors are the Hollors and Hollors and Hollors and Hollors are the Hollors and Hollors and Hollors and Hollors and Hollors are the Hollors and Hollors a

WHERE IS HEIPER VACCINE TO BE OBTAINED? TO THE EDITOR OF THE MEDICAL TIMES AND GAZETTE.

TO THE EDITOR OF THE MEDICAL TIMES AND GAZETTE.

SIR.—I wish to obtain a tube or a point of vaccine from a healthy heifer.

I applied to the Hospital staff, and was referred to the Privy Council; the Privy Council neither had any nor could they refer me to any reliable source of supply or information except Dr. Marson. Dr. Marson could not help me, so that I am at a standatill. Can you assist me by advising me where to I am, &c., Guy's Hospital, June 3.

AN APOTHECARY'S BILL IN CHARLES II.'S TIME.

As ACCHEGAN's BILL IN CRARGE II.'S THE.

THE ROTTOR OF THE ROPAL THEM AND AGENTICA.

THE ACCORDANCE PRINCE THE CONTROL OF AGENTICA.

THE ACCORDANCE PRINCE THE CONTROL OF AGENTICA.

THE ACCORDANCE II. If was given to my in copy, not long above, the finisher, a pertionant engaged in the arrangement of a codiction, in excitate, therefore, evil; in manuscript. The appender Fig. is by the copylin. In adultion to the Materia Medias "of the period," it illustrates, by its "Cordial judge, id. e. s.il"—this being equal to exactly first times that mount in our time. The original spelling is preserved. I am, &c. M. Chiller, J. S. Materia, M.D., Fill.CP.

Million, James.

Endorsed-" Lady Middleton's Doctor's Bill," 1862. Dr. : The Right Worshippful yo Lady Middleton. 1002 . 4 2—Imprimis, Hartshorn and marigold 3—A diascordium ... 0 0 0 0 A syrop of gilliflowers
A powder of Jollop

A Quicksilver ... 6 5 0 *** 6 ö 06680 ŏ Item 6666 A stomach plainer for y Ladyships
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Co-A unahan and Sai premit, for Where
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A strong of Red Popple
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Co-A proper for Mrs. Bridgewater
Co-D a cordial Tablet
Co-D a cordial Tablet ö *** 0 2

Totall ... £6 9 A ascen—A pewer still and bed-pan. PS,—That this, a private Professional man's bill of charges, should be found amongst a public collection of MSS, is readily accounted for by the fact that one of Lady Middleten's memodites ascessors—perhaps the very fact that one of Lady Middleten's memodites ascessors—cheaps the very charge the perhaps the Item-A pewter still and bed-pan.

ARRY MEDICAL REPORM.

The regimental Medical officers have always stuck up for the rights of the hard of the state of

service, but taken their chance of pertung something more than £200 a pert, after being incocked about the a shuttlecock for the best five years of their circitors, principles of the control of the con

682 stellar Time and Garante.

NOTES, QUERIE the transport of the control of the

on some other plan to quicken it. Lam, ac., COMMUNICATIONS have been received fromthe property of the proper

BOOKS RECEIVED-

BOOKS RECHYED—
market on the Necessity for Legislation in reference to Habitual
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PERIODICALS AND NEWSPAPERS RECEIVED-

PERIODICALS AND NEW SYSTEMS REGENTED—
Glass Medical Casette—Monthly Homosopaths Bervier, June—Birmingham Daily Yost—Borton Medical and Surgical Journal—The Westonsuper-Marc Susctte-Glassow Herald—The American Journal of Obettings, May—Lancaster Observer—Medical Press and Circular—New
York Michical Journal—American Journal of Typolological Medicine.

APPOINTMENTS FOR THE WEEK.

June 10. Saturday (this day).

Operations at St. Eartholemes*, i, jp. m.; St. Thomas*, sh a.m.; King's, 2 p.m.; Charing-cross, i, p.m.; B. Thomas*, sh a.m.; King's, 2 p.m.; Charing-cross, i, p.m.; Koyal Free, 2 p.m.; Hospital for Women, 5h a.m.; Royal London Ophiladinic, il a.m.
Royal Institution, 3 p.m. Joseph Norman Lockyer, F.R.S., "On the Institutions to used in Modern Astronomy."

12. Monday.

perasions at the Metropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Recture, p.m.; St. Peter's Hospital for Stone, \$\frac{1}{2} p.m.; Royal London Ophthalmin, 11 s.m.

13. Tuesday.

Operations at Gay's, 13 p. m. 13. Thesing, freez Portlands etree, 2 p.m.; Parliniter, 2 p.m.; National Orthopsedie, Great Portlands etree, 2 p.m.; Bergar Pree, 2 p.m.; Royal London Ophthalmie, 11 a.m.; Pam. Meeting. Brustoucate, Sourier, 8 p.m. Meeting. Brustoucate, Sourier, 8 p.m. Meeting. Mr. Royel, "On the Removal of Tumours from Royen." Mr. Spraner Walls, "A Forth Series of 100 Gases of Ornations,"

14. Wednesday,
Operations at University College Hospital, 7 p.m.; 8t. Mary's, 14 p.m.;
Middlesex, 1 p.m.; London, 9 p.m.; 8t. Bartholomew's, 14 p.m.; Great
Northern, 3 p.m.; 6t. Thomas's, 14 p.m.; Sanaaritan, 230 p.m.; King's
Lakes Hospital (by Mr. Wood), 3 p.m.; Royal London Ophishamic,
Lakes Hospital (by Mr. Wood), 3 p.m.; Royal London Ophishamic,

PIDERHOLOGICAL SOCIETY, 8 p.m. Election of Office-bearers. Adjourned Discussion on Inspector-General Lawson's Paper.

15. Thursday.

Operations at St. George's, 1 p.m.; Central London Ophthalmic, 1 p.m.;
Royal Orthopsedic, 2 p.m.; West London, 2 p.m.; University College
Hospital, 2 p.m.; Royal London Ophthalmic, 11 a.m.

16. Friday.

Operations at Westminster Optibalinia, 13 p.m.; Central London Oph-thalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m.; South London Optibalinia, 11 a.m.; South London Optibalization, 12 p.m.; South London Optibalization, 12 p.m.; South London ''On the Equimana; and Ice of Greenland'' (Illustrated by drawings and photographs).

VITAL STATISTICS OF LONDON. Week ending Saturday, June 3, 1871.

BIRTHS.

Births of Boys, 1094; Girls, 968; Total, 1992. Average of 10 corresponding weeks, 1861-70, 2035-7.

DEATHS.

		Males.	Females.	Total.
Deaths during the week	:	771 650°6	022 507:2	1393 1247-8
Average corrected to increased population Deaths of people above 90	:	***	***	1373

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1861.	Small-pox.	Measles.	Searlet Fever.	Diphtheria.	Whooping-	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Ferer.	Diarrhow.
West		458125	10	1	- 5	3	9	2	2	9	4
North	***	619210		9	5	3	8	3	6	3	l š
Central	***	383321	11	2	1	1	9		1 1	i i	ï
East	***	571158	17		6	9	6	19	1 9	4	1 8
Bouth	***	773175	75	11	8	1	8	3	9	3	9
Total	***	2903989	220	16	25	10	29	10	20	13	20

METEOROLOGY.

From	Observations	at	the	Gree	muci	A 0	bseri	ralo	y.
Mean height of	barometer								29-980 in.
Mean temperatu	re								53-9°
Highest point of	thermometer								74:6"
Lowest point of	thermometer								40.3
Mean dew-point	temperature								46'7"
General direction	n of wind .		٠.						N.E. and N.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, June 3, 1871, in the following large Towns:-

	ion in 1871.	Acre.	during une 6.	dur	Ten of A	ir (F	ture thr.)	Temp. of Air (Cent.)	Ra Fa	in D.
Boroughs, etc. (Municipal boun- daries for all except London.)	Estimated Population middle of the year 187	Persons to an A (1871.)	Births Regustered the week ending J	Deaths Regratered the week ending J.	Highest during the Week.	Lowest during the Week.	Weekly Mean of Meanbally Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	8254469	41'8			74'6		58.9		0.10	
Portsmouth	125464	18 2	74		78'4			18'88	0.00	0.00
Bristol	173364	87.0			100	410	00 3	20.00	0 00	0.50
Wolverhampton	74438	22.0			77.9	39:1	54:9	19:38	000	0000
Birmingham	37H374	48'3			77.4				0.55	0:56
Leicester	101867	31:7					581	11:73	0:00	0.00
Nottingham	90489	45.3					54:18	12.66	0.06	
Liverpool	528225	103.0			73.2	41'4	54:4	12:44		0.02
Manchester	379140	84.2					56'5		0-04	
Balford	123851	23.3					58.6	15.00	0.07	
Bradford	149030	22.2	265				36'4	18:00	0.00	
	266109 255247	11:2					51'8	11:73	0.03	0.02
Hull	185195	28'0					49:4	9:66	0.07	
Sunderland	103037	31.5		56		30 0		***	V 00	0 20
Newcastle-on-Type	136293	25'5	195	79	68.0	2000		9:16	0.00	0.00
Edinburgh	179944	4016	162		76.0	40.0	56'4	18:55	0.07	0.18
Glasgow	477627	94'3	390	32%	70-7		51'0	12-22	0.20	
Dublin (City, etc.)	822321	33.1	200	164	78-9	38:2	56'4	13'55	0.04	0:10
Total of 20 Towns		24.4	-	-						
in United Kingd'm	7886961	34:4	4895	3302	149.8	29.5	53.8	12-11	1:28	2.30

At the Boyal Observatory, Greenwich, the mean reading of the barometer in the week was 39 98 in. The highest was 30 09 in. on Monday evening, and the lowest was 20 56 in. on Thursday at noon.

and the lowest was 20% on, on Thursday at most.

Note.—The population of Cities and Broughs for 1871 is estimated as

Note.—The population of Cities and Broughs for 1871 is estimated as

rate as between the consuces 1861 and 1867; at this distant period, however, from the last of those two consuces, it is probable that the estimate

name of the consuceration of the consuceration of the consuceration of the final-stell of the consuceration of the final-stell of homes.

The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on April 8, will probably be available before the middle of the year, and will then be substituted for these estimates.

ORIGINAL LECTURES.

LECTURES DELIVERED

PHYSIOLOGICAL LABORATORY OF UNIVERSITY COLLEGE.

By J. BURDON-SANDERSON, M.D., F.R.S., F.R.C.P., Professor of Practical Physiology.

LECTURE VII,-ON VASCULAR NERVES.

WE have hitherto regarded the arteries merely as passive elastic tubes, subject, indeed, to variation in diameter, but varying only in consequence of changes in the pressure made by the circulating blood on the internal vascular surface. We

have to-day to study them, not only as elastic, but contractile. The arteries owe their contractility to the metriped muscle afters which they contain. These fibres contract under the influence of impressions conveyed to them by the vascular nerves, which nerves, together with the automatic centre from which they radiate, constitute the seas-most nercens system.

which they radiate, constitute the cost-motor necrous system.

Of the centre which governs arterial contraction we know
nothing anatonically. In other words, there is no point in the
brain or spinal cord to which the vascular nerves can be
traced back. All that we know about it (and we shall see that
we really do know a good dead) has been learnt junely and
we really do know a good dead) has been learnt junely and
read to the contraction of the c

That there is a vaso-motor centre, and that it is situated in the encephalon, we learn by observing—first, that if the spinal cord is divided immediately below the medulla oblongata, all the arteries are dilated; and, secondly, that if we excite certain afferent nervous fibres which lead to the medulla oblongata, we can produce a similar effect, though in considerably less degree. Thus we learn, on the one hand, that the arterial muscles cease to act when the communication between them and the encephalon is severed, even though the rest of the nervous system remains entire; and, on the other, that their action can be modified by existing a rensid nerve—i.e., by an agency which can only reach them through the medulla oblongata.

That the vaso-motor centre is in constant automatic action is shown by the paralysing effect of section, whether of the spinal cord or of any nerre known to contain vascular fibres. If the action of the centre were not constant, division could not produce arterial relaxation. In relation to this constancy of action wo use the word costs. Arterial tonus means that degree of contraction of an artery which is constant and normal. It is maintained only so long as the artery is in connection with

the vaso-motor centre.

The channels of communication between the centre and the arteries are partly spinal, partly synapathetic. That they are spinal is shown by the fact that atimulating the spinal cord, in any part of its extent, produces arterial contraction in corresponding regions of the body. That they are also sympathetic is shown by the effect of dividing various nerves belonging to the part of the par

In the present lecture I will confine myself to the simpler phenomena of vacular contraction and dilatation. I will show that stimulation of a vasa-motor nerve produces contraction of the arteries to which it is distributed; and section, paralysis; that, just as section and stimulation of an ordinary motor nerve paralyses or simulates it amneals, excitation of the spinal cord produces vascular narrowing, and hereby increased resistance to the circulation of blood, and increased arctical pressure; of an open contraction of the contraction of the circular of an open contraction of the arteries which supply blood to the region to which the nerve is distributed, but increased arterial tomus in other parts of the body.

Vol. I. 1871. No. 1094.

It is not at all necessary for me to insist on the importance of this subject. It is clear that many of the most striking phenomena of disease, particularly those of fever, inflammation, and collapse, must find their explanation in disordered rascular innervation. It cannot be doubted that we are in a much better particularly the subject in the subject of the subject is still full of difficulties and perplexities. So much is this the case, that it is explication to pathology, the subject is still full of difficulties and perplexities. So much is this the case, that it is explication to pathology, the subject is still full of difficulties and perplexities. So much is this the case, that it is explication to hastily than to suggest them to him. To will find that, of late years, a whole series of him. To will find that, of late years, a whole series of the two will find that, of that years, a whole series of the two controls of the two controls of the two controls of the various of the two controls of the two controls of the control of these necess is not yet exact enough to afford a safe ground for pathological specialistion. Onessavaroo XXIV.—LUDWIG ASO THING'S EXPERIMENT.

In 1863 the lamented v. Bezod published his well-known researches on the nervous system of the heart. "Among a number of other less time the practical Physician can reserve, he showed for the first time."

In 1863 the laneated v. Bezold published his well-known researches on the nervous system of the beart. Among a number of other less important discoveries, he showed for the first time the nature and extent of the influence exercised by the brain and spinal cord on the circulation of the blood. He found that when in a curraised rabbit of odg the spinal cord is severed while at the same time the number and extent of the contribtions of the heart are diminished; and that if, on the other hand, the upper end of the divided spinal cord is irritated below the point of section, the arterial pressure rises to its original level, and the heart to its previous activity. As in this experiment the changes of arterial pressure follow the exitation of the spinal cord directly, there is not the slightest doubt that the result is to be attributed in the one case to increased contraction, in the other to relaxation of the muscular fibres in the walls of the great system of tubes in which whether the muscular fibres affected were those of the heart or those of the arteries. Besold, indeed, himself believed that the diminution of arterial pressure after section of the cord was mainly due to relaxation of the heart

The determination of this quostion, which evidently is a fundamental one, is the purpose of the experiments which I have now to describe to you. The facts demonstrated are—first, that if, in animals in which the cord has been severed from the medulla oblongata, the state of the arteries is observed before, after, and during electrical excitation of the upper end of the severed cord, it is seen that they outstant or, and core order on the severed cord, it is seen that they outstant or the upper end of the severed cord, it is seen that they outstant or the cordon-spined that the cord observed before and after this operation are compared, it is seen that there is, so far a relates to prawar, no material difference in the effect on the circulation produced in the two cases, and consequently that the whole of it is a raterial. The leading experiment is as follows:—Two contigrammes of currar, dissolved in a cubic contineter of water, are injected or curred.

of current, quisorved in a connot commence of water, are injected below the skin, and, immediately after, artificial respiration is binaself, to paralyse the extremities no completely that neither stimulation of the cord nor of any muscular nerrey produces the alightest contraction of voluntary muscles; while, as we shall see on another occasion, it is not sufficient to interfere with the action of the heart. Respiration, of course, ceases, but it is maintained, as I have said, mechanically, the means which communicates with a canula adapted to the traches of the animal. No arrangement of valves is wanted; it is sufficient that there should be an opening in the canula by which air may escape between one inflation and its successor—i.e., during the period which corresponds to expiration. During each injection it is obvious that a large proportion discharged by the bellows is loss by the series of any practical important that the number of injections per minute and the quantity injected, at each stroke should be uniform, various contrivances are used in laboratories for the purpose. When a motor which acts with perfect regularity (such as the gas-engine which is used in the Physiological Institution at Leipse) is at band, there is, of course, no difficulty. In the absence of a motor of case it must be fitted with a graduated charge, in this quantity of air delivered at each stroke may be constant; the rate per minute amust be regulated by a metroroome.

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The membrane between the atlas and the occipital bone having been previously exposed, and one of the acardid arteria connected with the manometer of the kymograph, observations are taken of the arterial pressure, and of the frequency of the pulse. This done, the spinal cord is divided at the atlas. Immediately the rate of pulsation is diminished, asy from 140 to 100; and after a few seconds the arterial pressure sinks, say from three or four inches to one or two. Needles are then inserted into the spinal cord, one at the upper edge of the state, the other at the lower edge of the axis, both of which are connected with the secondary coil of Dubois induction apparatus. At once the heart beats more frequently and

vigorously, and the mercurial column attains its former level. The next step in the experiment is the destruction of the cerebro-spinal cardiae nerves. These nerves, as you know, reach the heart or leave it either through the vagt or the sympathetic. Their arrangement in rabbits is not materially different from that which exists in man. Their relation to each other in the neighbourhood of the heart must be learnt by dissection. At

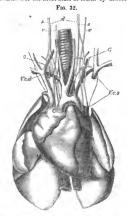


Fig. 32.—The nervous system of the heart in the rabbit (from Ludwig), a, sympathetic; d, depressor; v, ragas; d, gashjion stellatum; V, c, d, e, sympathetic; d, depressor; v, ragas; d, gashjion stellatum; V, c, d, veries comes into experiments. This veries comes into eview between the term of experiments of the properties of the p

the upper opening of the thorax they are contained in the space between the two rows eaver sup. In this region the vagus of the left side passes down in front of the subclavina artery, close to the genglion scaletaem—i.e. the last cervical gauglion of the sympathetic. The right vagus is in corresponding to the superior of the superi

the destruction of the nerves is effected, the spinal cord is again excited, great care being taken that the strength of the current shall be the same as in the previous observation. The results always obtained are, that both the arterial pressure and the frequency of the pulse are affected by excitation of the cord, exactly in the same way as when the cardiac nerves were untouched. For the direct observation of the effect of irritating the cervical spinal cord on the arteries, the vessels best fitted are the renals and the strevie suphens, which in the rabbit runs comparatively superficially along the internal surface of the thigh. During stimulation of the cord the contraction of the renals is often so marked that the kidney becomes obviously assemic; in the arteria spikens the blood-stream becomes as the contraction of the contraction of the contraction of the their observations to a large number of arteries in various parts of the body, in all of which the same phenomenon manilected itself with more or less distinctness.

In the frog the effect of exciting the central nervous system on the capillaries may be very readily demonstrated. All that is necessary is to insert two pointed wires (of platinum) in the spiral cord, immediately in frout of the scapule, at a short distance from each other, having previously arranged the web so as to observe one of its arteries under the intercospor. The electrodes are connected with the secondary coil of the induction of the contract of the circulation to a standard. The contraction seems to begin almost immediately after the current is closed, and diminishes the week of the contract of the contr

OBSERVATION XXV.—BERNARD'S EXPERIMENT.
The experiments by which we prove that certain nerves known to coutain vascular filaments are really vaso-motor are comparatively simple. The most important vaso-motor nerves are the cervical sympathetic trunk and the splanchnic nerves. With reference to each of these, it is possible to show experidistributed; and that stimulation of the cut end, which is still in connexion with the peripher, determines their contraction. In the case of the cervical sympathetic, the demonstration is extremely simple. In a chloration about an incide and the splanch of the contraction of the cut end, which is still in connexion where the contraction is extremely simple. In a chloration debbt an incide and the contraction of the contraction of

nerves, both much smaller than the vagus, are drawn forward with it, imbedded in the membranous sheath. (See Fig. 33.) Of these two nerves, one, which is the smaller of the two, is the depressor - an important cardiac branch of the vagus, of which I shall have to speak in another lecture—the other is the sympathetie. To discriminate between them, all that is necessary is to trace them both upwards. It is then seen that the depressor arises by one root from the vagus trunk, by another from the arises of one root from the vague trunk, by another from the superior laryngeal; whereas the sympathetic continues its course upwards alongside of the artery. The sympathetic is also distinguishable by its grey colour. A ligature having been placed round the nerve, the ear must be carefully examined. before dividing. Straight up the middle line of the ear on its external surface runs the posterior auricular artery, dividing towards the top into three branches, which communicate with each other by anastomotic arches. In contemplating the artery and its branches, you will not fail to notice its rhythmical changes of diameter. At one moment it appears as a red streak of moderate breadth, at the next it contracts to an almost invisible thread, and similar widenings and narrowings follow each other at intervals of from five to ten seconds. rabbit these peristaltic waves are to be observed not only in this but in many other arteries, and probably exist throughout the whole system. For the purpose of our experiment it is well to fix the ear in such a position that the artery may be viewed with a horizontal microscope fitted with a two-inch objective and micrometer eye-piece; and careful measurement should be made before and after excitation of the sympa-

⁽a) This beautifully simple experiment we owe to Dr. Stricker, with whom I had the pleasure of repeating it here very frequently last summer.

thetich) On dividing the nerve it is seen that the artery didnets, the rhythmical movements coase, and the whole was calar network of the ear rapidly becomes injected with blood. If the ears are held one in each hand, it is forth that that of the injured side is sensibly warmer than the other. On exciting the peripheral cut out, due that every contracts and the congestion disappears; so that, instead of being redder and warmer, the difference is rather in the other direction. As this is the first time that we have applied the electric stimulus to a nerve, I must shortly describe the method.

Frg. 33.

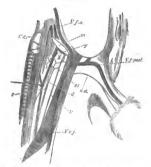


Fig. 33.—Sketch showing the relations of the most important nerves and vessels in the sack of the rabbit, w, rague; s, sympathetic; g, superior global nerve (saked by mistakel, from which the descenden not a prings. After receiving a communicating branch from the errical plerus, it cross the school of the careful, and divisits into according plerus, it cross the school of the careful, and divisits into according case, springs entirely from the superior largrayed, but usually, also, receives a not from the vaque; s. e., a suricularis magua; if e., st, external jupidae, which receives the anterior and posterior facult veins: the control of the control of the control of the control of the external pupidae, which receives the anterior can posterior facult veins:

The excitor consists of a couple of pointed copper wires, which are fixed parallel to each other in an irroy nobler, at a distance of about the tenth of an inch. Of they noted that the ends opposite to the points are severally connected with the opposite poles of the secondary coil of Dubois-Reymond's induction apparatus. In applying the points, all that is necessary is that both of them should be in contact with the nervo, which must be so isolated from surrounding structures that the influence of the current may be limited to the part on which it is intended to a

OBSERVATION XXVI .- LOVÉN'S EXPERIMENT.

The animal which has been already employed for the experiment on the cervical sympathetic, and is still under the action of chloral, will serve to illustrate the fact which stands next in importance to those relating to the direct effects of section and excitation of a vaso-motor nerve. I refer to the reflex effects of exciton and excitation of a vaso-motor nerve. I refer to the experiment is made, as it was first made by Lovén, on a curraired animal, two distinct and, indeed, antagonistic mode of action manifest themselves—first, a general action, which great rise to an increased arterial pressure; and, secondly, a five rise to an increased arterial pressure; and, secondly, as increased arterial pressure; in due, not to any increase in the vigons with which the heart contracts, but to general narrowing of the arteries, and consequent increased restraine. The local conjection results from what has been called a reflex paralysis or a paralysis enelly quite as complete as that produced by section of the sympathetic, and, in the non-chloralised animal, apparally more so; for, in consequence of the general increase of

arterial tension, the relaxed arteries give way, and enlarge more than they do when the vaso-motor nerves are divided.

more can tary on ware the vaso-motor nerves are divided. For this experiment, which is a simple as it is conclusive, we take the vessels of the left car, those of the right having been already paralysed. The car of the rubbit derives it is conclusive, the paralysis of the car of the rubbit derives it these, the posterior anzieular, approaches the surface at the back of the neck, very near the middle line, and runs forward, under a thin covering of musels, to the root of the ear, where it penetrates a process of carliage, easily felt in passing the finger from the occiput outwards. By making an incision between this process and the occipital spine, the nerve can be very easily found. The other nerve (a auricularis magnus, see Fig. 32 springer from the anterior branches of the second and third cervical nerves; it becomes superficial at the posterior of the carriage of the control of the carriage of the control of the carriage of t

to proceed at once to the posterior. The mode of experimentation is the same as that employed just now for exciting the cervical cuil of the synapathetic. The merve to be acted upon must be divided, and the central end placed between the two electrodes. From three to five seconds after the closing of the current, the artery will be seen to dilate, and if we then break it, the dilatation will last perhaps for ten seconds, after which it will gradually diminish, the vasel contracting to a size smaller than it had before. If care is taken neither to prolong the excitations unduly nor to use too strong currents, the experiment may be repeated a great number of times, so that all may have the opportunity of seeing

the results.

Lovén obtained perfectly similar results in his experiments on the vascular nerves of the lower extremity. It was first ascertained that the arteria saphena receives its vascular supply from the saphenus nerve by preliminary experiments, in which it was found that, by division of that nerve, the artery was electrically excited. The personal nerve, which in the rabbit, as in man, ends in branches distributed to the dorsum of the foot (dorsalis pecils), was selected for excitation on account of the partial correspondence between its distribution and that of the artery, and of the circumstance that it can be excited at that the result could not possibly be attributed to any direct interference with either. The changes which occurred in the arteria saphena during excitation of the central end of the mucualn exclusions nerve are entirely similar to those we have between the coil the nuriculars, both as regards and interval between the coil the arterial careful or and its duration.

What is the nature of this reflex paralysis? It signifies that the vaso-motor centre, which, as I have said, is always in a state of activity, has its action suspended—or, as some prefer to call it, inhibited—so far as relates to the vaso-motor nerves of

the region over which the effect extends.

As I stated before, when the experiment is made as Lorén himself made it—on an animal paralysed with curaro—the effect is more completested than it is in a chloralised animal, for two kinds of effect are produced. There is, so to peak, a struggle between two opposite conditions—reasular spans and vascular paralysis—enlastation in the region of the excited sensory nerve, contraction in all other parts of the body, the degree of which can be easily judged of by the inspection of such arteriors acan be exposed, just as in Thiry's experiment.

such arteres as can be exposed, jute as in Tarry's experiment.

The meaning of this antagonism is, that in the chloralised whereas under curace they are still active. The irritation of those centripetal fibres which are concerned in the sensation of pain exercises an influence on the vaso-motor centre which is opposed to that of the fibrar which enter it directly from sensory nerves—in other words, the vaso-motor centre receives impressions, when a sensory nerve is irritated, of two kinds—in the contraction of the contract of the contra

⁽b) The car may be readily fixed for this purpose with the aid of Czermak's rabbit-holder.

action. When the hemispheres are paralysed, no such effect is produced. The facts on which my statement is founded will e considered in next lecture.

ORIGINAL COMMUNICATIONS.

NOTES

ON THE PATHOLOGY OF MALIGNANT NEW GROWTHS.

By HENRY ARNOTT, F.R.C.S.,

nt-Surgeon to the Middlesex Hospital, and Lecturer on Surgical Pathology in the School.

CARCINOMA.

BEGINNING with the most virulent of malignant growths, that variety of cancer familiar to Surgeons under the form of scirrhus of the breast is the first to claim our attention. This is the tumour about which the hottest controversies have been waged by pathologists as to its intimate structure, etiology, and mode of growth, and by Surgeons as to its curability by operation or otherwise. And this warfare has itself sufficiently demonstrated the necessity for the harmonious co-working of these two classes of observers; for it has been a common resource of those Surgeons who maintain the constitutional nature of the disease and the impossibility of its cure, to assert that an alleged cured cancer has been only a chronic mammary or some other simple form of tumour; and the uncertainties hitherto attending the diagnosis of mammary cancer, even with the advantage of a microscopie examination, have rendered this process of begging the question less assailable than it is hoped it may be in future. Since the great debate in the French Academy on the diagnostic characters of the cancercell, there has always been a hazy notion affont in this country that, in spite of the conflicting views expressed on that occasion, there is unquestionably some mark distinguish-ing the cells of a cancer from those of any other tumonr; and many of those who have given up the ancient idea of a "typical caudate form," still believe that there are certain signs—as a large eccentric nucleus, or the presence of "mother" cells containing one or more smaller ones—by mother cells containing one or more smaller once—by which these cells may be distinguished. At the present time, however, the question troubling the pathologist is the source of these cells rather than their peculiar characters, since it is now believed that their distinctive characters are to be sought now betteved that there describes that in their arrangement rather than in the form of the cells themselves. Are they developed from epithelium, connective tissue corpusseles, or wandering white blood-cells? This inquiry has taken the place of the former, since more extended observation has shown that cells mirroscopically indistinct of the control tinguishable from those of scirrhus may be found in granuunguasance from those of settrals may be found in granu-lations, in certain sarcometa, in glandular growths, and even in healthy parts, as the pelvis of the kidney and the prostate. Nay, so completely has the "cancer-cell" fallen from its former position, that certain modern pathologists affirm that this form of cancer should be called "alveolar fibroma," as best expressing the real nature of its structure.

fibroma," as best expressing the real nature of its structure. The microscopic cell of a scirnbous cancer seems to be in its younger stage a spherical mass of protoplasm containing a comparatively large oval nucleus with bright nucleolus, much resembling the cells of the rete mucosum, or lower layers of the resembling the cents of the rice microsum, or lower myers of the cuticle; but, like these, as development proceeds, the spherical cells, closely squeezed together and increasing in volume, undergo various modifications of size and shape, according to undergo various modifications or size and shape, according to their rapidity of multiplication and the extent and direction of peripheral pressure. The cell of scirrhas is in all respects identical with that of medulary cancer; and since these two forms of tumour, with their modifications, constitute the most forms of tumous, with such mounteations, consuture the most important group of malignant growths, to all of which English Surgeons are in the habit of applying the term cancer, it becomes necessary to use a distinct name for these most cancerous of cancers. The introduction of new names into a sufficiently complex nomenclature is, however, so great an evil, summently complex nomencenture is, nowever, so great an exil,
that it is perhaps wise to accept the Greek word certineous,
already widely so employed, as expressing this form of cancer
as defined by the microscopist, and to leave the Latin synonym
as a more vague and general term representing merely a
malignant tumour. In this sense, then, the word "carcinoma" will be employed in these papers; and this brings us to define strictly what structure it is that is so designated.

100

A carcinoma may be described as a tumour in which a more or less dense fibroid growth forms a sponge-like or cavernous frame-work, whose alveoli are filled with loo-e cells of an epithelial type, grouped together disorderly, bathed in a clear fluid, and having no visible intercellular material.(a) If it were desired to give a rough illustration of what is here meant, one might imagine a rough integration of what is need in any, one magnetic bit of coarse sponge or honogromb filled with clear syrup, and the cells of the comb packed with soft and yielding masses, with uniform hard centres, such as would be formed by energy significant uniform many and the property of the honeycomb thus prepared were slightly warned, and then roughly juiled or squeezed, so as to render its spaces less symmetrical and the little todies irregularly compressed, there would result a very fair representation of a carcinomatous tumonr; and on cooling and cutting thin sections of such a model, the network of wax, enclosing in its meshes variously formed bodies with tolerably uniform oval centres, and a quantity of pellucid, viscid fluid, would strongly remind one of what is seen on examining thin sections of carcinoma under the microscope. Bearing this illustration in mind, it is easy to understand the abundant milky juice which exndes from a freshly-cut scirrhns, as also the large number of cells which float out into the surrounding glycerine when a thin slice of fresh carcinoma is mounted for examination; and the scanty cohesion between these cells further explains their fatal tendency to transplantation to distant organs, being easily hurried away in the lymph- or blood-stream which may reach them. There are thus offered for examination two main structures in carcinoma-the fibroid framework or stroms, and the cells which it encloses

About the nature of the fibroid strome, whether it consists merely of the compressed connective-tissue basis of the diseased organ, or whether it is a genuine new growth, various opinions have been held. It seems a matter of comparatively small moment. My own observations certainly incline me to regard the stroma as without doubt a portion of the new growth. Numerous specimens in which the stroma has coloured far more deeply with carmine than the cells, others in which (as in Fig. 5) it has been formed of delicate spindle cells, and others, again, in which attempts to trace the development of the several elements have seemed to show me the growth of this stroma proceeding pari passs with that of the contained cells, have left little doubt in my mind on this point. This stroma differs a good deal in density and in structure in different specimens; and it is in the proportion of the fibrous to the cellular elements that the distinctions between hard and soft carcinoma exist. In its most typical form, as obtained by peucilling out a thin section of scirrhons breast under water, the stroma is seen to have a delicate fibrillated appearance (Fig. 4), in which are

Fro. 4.



Fig. 4.—The alveolar fitrous stroma of carcinoma, obtained by pencilling out, under water, a very thin section of a scirrhous tumour of the breast. Magnified 220 times.

a few spindle-shaped corpuscles, specially observable at the junction of the alveoli. The thicker parts of such a section show similar bands half ont of focus, and a comparison of many such sections seems to show that this fibraid substance forms a cavernous system throughout the tumour. In other cases the fibrillation is less apparent, and we have then a homogeneous texture, like that forming the tough substance of a chronic inflammatory product, as in the lung of so-called "fibroid phthisis." More rarely this meshwork is made up

⁽a) This definition differs from that of MM. Cornil and Banvier, in describing the cells as being of an epithelial type, in laying stress upon their dissipation of the control of the

of beautiful elongated spindle cells. (See Fig. 5.) I hav twice seen this structure, each time in a medullary carcinoma



Fig. 5.—Rare form of soft carcinoms, in which the stroma is made up of delicate spindle cells. Magnified 220 times.

of the breast. As to the form of the alveoli, these may vary of the breast. As to the form of the aveou, these may vary as greatly in shape as in size. In the majority of sections from hardened specimens, the spaces will be more or less oval or elongated, and (probably as the result of the action of the hardening reagent) the cells will often retreat slightly from the method that the method five a bread [Fig. 7] washing the outline of these nardening reagen); the ceas win often retreat signity from the walls of the alread (Fig. 7), rendering the outline of these more clearly discernible. The injections of Thiersch and Billroth have shown this stroma to be abundantly supplied with vessels, and, as might be δ priori supposed, the delicate vessels in mediulary carcinoma, as in other soft new growths, lacking the support offered by the denser fibrous tissues of the firmer varieties, are prone to aneurismal dilatations, and the frequent rupture of these weakened vessels gives rise to the many varieties of colour and consistence which characterise such tumours. The observations of MM. Cornil and Ranvier as to the relation of the minute lymphatics to the alveoli, and the bearing of this point upon the question of extension of the disease, have been already mentioned.

The cells of carcinoma are more remarkable for their multiformity of contour and size than for any special peculiarity distinguishing the individual cells. The eagerness with which distinguishing the individual cells. In eagerness with winch students look for "mother colls" or multiple nuclei as the cells par excellence of cancer soon gives place to the expectation of seeing very few of these-and, indeed, they are comparatively seldom met with, save in the most rapidly-growing softer Perhaps the most constant shape is a slightly compressed oval, five or six times as large as a white blood corpuscle, with a single large oval nucleus, and a bright nucleolus; but in the later stages the cell becomes larger and, in consequence, more irregular in outline (Fig. 6). In the earlier stages of the



-Various cell-fe tous turnour. Magnified 220 times. disease it is common to find the cells small, and of a tolerably uni-form oval shape, but arranged in the same way in the meshes of a fibrous stroma. special attribute of all these cells is a proneness to speedy decay. Hence it is difficult to make a scraping from a divided scirrhous breast which shall not contain many cells more granular than they should be, and

some few whose nuclei

are obscured by the little bright off particles which in others so fill the cells as to render its parts wholly undistinguishable.

Having thus briefly described the typical stroma and cells of the cells are the cells of the cells are cells of the cell typical arrangement in every section of a carcinomatous tumour. Reference has been already made to the fact that the main distinction between hard and soft carcinoma lies in the proportion of the fibrous to the cellular elements. In the softer growths it is sometimes difficult to make out any fibrous stroma at all without careful pencilling, so delicate are the bands, and so wide the meshes. In well-marked scirrhus, on the other hand (as shown in Fig. 7), the alveolar arrangement



Fig. 7.—Typical mature carcinoma, from a scirrhous breast. Probably by the action of the chromic acid solution employed to harden the specimen, the cells have shrunk away from the alveolar wall to some extent, Magnified 220 tunes.

is particularly conspicuous. But in both of these cases it often happens that, from some defect in the mode of preparation or obscurity caused by excessive staining with carmine, the pre-cise forms of the individual cells are by no means so easy to define as they are shown in these woodcuts. What one often sees is merely a number of dark clusters of cells, of which perchance the nuclei may be tolerably clear, imbedded in a pale, homogeneous, or fibrillated medium; but here much help is obtained by looking round the margin of the section—for even if this be not sufficiently thin (and the edge of the roughest razor-section is generally fine enough for the purpose), the loose cells which float out abundantly into the glycerine in which the section floats are readily discernible, and display perfectly the shapes which are obscured in the denser portions of the specimen.

Again, in some parts of such a tumour, field after field of the microscope will exhibit-only a flat surface of fibrous texture in varying stages of development, and then, perhaps, a few irregular groups of cells will herald the approach of a confused mass of richly cellular structure, which may again as suddenly give place to considerable tracts of connective tissue, or remains of mammary gland, if it be a scirchus of the breast which is under observation. Moreover, if the section be taken from the extreme margin of the scirchous nodule some such appearance as is shown in Fig. 8 is seen-namely, a distribu-

F10. 8.



713. 8.—Developing careinoma, from the extreme margin of a scirrhous nodula. The fibrous tissue to the left of the sketch is seen to be detied with inside granular corpusates, which are also celleted in resours. To the right are the young, oral, nucleated cells of the tumour, arranged in cluegated avoice. Magnificed 220 times.

tion through the fibrous tissue of small spherical corpuscles very like lencocytes (the "indifferent granulation material" of Virchow), at first in twos and threes, but soon in larger clusters, until these seem to change into the groups of clusters, until these seem to change into the groups of larger oval nucleated cells, which are not very different from those of mature carcinoma. I say "seem to change" advisedly, for it is very difficult to trace accurately these tissue trans-formations, and many eminent observers ascribe the origin of the cells of scirrhus to the glandular epithelium, whilst others are equally confident of their development from proliferating connective-tissue elements. It must be remembered, also, that recent observations upon the nature of leucocytes or wandering white blood corpuscles render it possible that these furnish the starting-points for the cells of carcinoma as for those of many other new growths. I am scarcely prepared to discuss here the argument from this last hypothesis which might forcibly suggest itself to those who hold cancer to be a "blood disease." Just as we are beginning to be doubtful about the wisdom of dismissing the terms "effusion" and "deposit," in favour of terms expressing more definitely the idea of local cell-proliferation, so it may be that the recent remarkable experiments of Professor Cohnheim and his followers may hring us again to accept the theory of a "blood disease" as the essential cause of the formation of malignant tumours; but in the present unsettled condition of pathological research, when the discovery of to-day is too apt to be classed with the mistakes of yesterday, we may be fairly excused some reluctance in accepting too unreservedly deductions from experiments made by different observers with conflicting results. Under these circumstances it is prudent to confine ourselves to a statement of what is actually seen in an ordinary specimen of developing carcinoma, and not to trouble ourselves for the present about the true interpretation of these phenomena.

To sum up this hasty review of the microscopic structure of carcinoma, its several stages of development, maturity, and decay may be illustrated by the accompanying diagram.

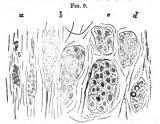


Fig. 9 - Disgram representing the several stages of carringma. corpuscles collecting into groups (connective-tissue proliferation!), & Young oval nucleated cells clustered together. c. Typical mature structure. d. Gradual withering by fatty degeneration of cell elements

First we have an accumulation of small bodies resembling rins we have an accumulation of small codies resembling granulation corpuseles, and which may be leucocytes or (more probably) the product of connective-tissue proliferation (a). These gradually form small clusters, and the next appearance is a series of groups of larger eval and nucleated cells (b). These, in their turn, give place to well-marked meshes in the fibrous material, filled with irregular densely-packed cells (c), the typical structure of carcinoma, and no sooner are these formed than symptoms of decay appear, the cells become gradually obscured by oily accumulation within them, they burst, the oil runs into larger drops; lastly, the connective-tissue corpuscles in the stroma may themselves degenerate; and finally (d), we have merely a granular fibroid stroma enclosing spaces filled with oil particles, and in which the arrangement of the remains of the alveoli alone suggest to the observer the carcinoma which has flourished and withered.

I have said that this form of malignant disease is specially typified in ordinary scirrbus of the breast; but the appearances of carcinoma as it affects other tissues, as bone or muscle, undergo certain modifications, and these will be described in the next paper. Those "accidental" conditions of carcinoma to which have been been assigned special names, as colloid,

villous, osteoid, melanotic, rodent, etc., will be also there-briefly discussed. It would unduy swell the dimensions of these "notes" to enter with any detail into the considera-tion of the consideration of the consideration of the technique of the the various malignant growths. To the Hospital Sur-groun the clinical characters of esirrhus are but too well known. The careworn woman who applies with a "lump in the breast," and who displays on uncovering her wasted form the shrivelied hard gland with sunken inpile and prehered and of the failing of health and strength, is too familiar an and of the failure of health and strength, is too familiar an object to need description here, and the many varieties of appearances occasionally met with are amply set forth in such classical works as that of Mr. Paget on Surgical pathology. I am afraid that the description of microscopic structure sufficiently weary the reader, and I shall risk the charge of in-completeness in dealing with the subject, by dwelling as briefly as possible upon such points as appearances to the naked eye and clinical features of the tumours under consideration.

(To be continued.)

ON THE

PROBABLE CAUSE OF THE POST-MORTEM MUSCULAR CONTRACTIONS IN CHOLERA:

AND ON THE PHILOSOPHICAL TREATMENT OF THAT DISEASE.(a) By JOHN G. FRENCH, F.R.C.S., Surgeon to the Infirmary of St. James's, Westminster.

DB. MARSHALL HALL, in a valuable paper on the subject of hybernation, published in the *Philosophical Transactions* in 1832, propounded the following aphorism as a law of nature: "The quantity of the respiration is inversely as the degree of the irritability of the muscular fibre.

The paper in which he advances this doctrine is in the highest egree philosophical and ingenious, and the evidence which he adduces is convincing as to the truth of the law which he declares. The well-known post-mortem contraction of the muscles in some cholera patients do hut afford a simple illustration of this natural law, the irritability of the muscular fibre here corresponding with the diminution of the respiration. Common observation misleads as as to the real condition of

hybernation, for even the most eminent physiologists presume torpor and insensibility to be its characteristics. But a more studious inquiry into the subject reveals to us that, while our experience of torpor and insensibility are associated with morhid conditions, hybernation, on the contrary, affords an illustration of that healthful process hy which means are adapted to an end, as in all the operations of nature whatever-In what, then, consists the difference between torpor and

insensibility and the characteristics of hybernation? In torpor from the influence of cold we find stiffness, insensibility, and from the influence of cool we find samilees, insensionly, and lameness as muscular peculiarities; but in hybernation muscular mobility remains unimpaired. Then, again, in hybernation, what can be a greater mistake than the imputation of insensibility when "the slightest touch applied to the spines of the hedgehog immediately arouses it to draw a deep inspiration." tion, and the least disturbance is felt, and induces motion in the

It is by the study of such subjects as hybernation that we may effect philosophical improvement in Medical practice, and thus bring it into competition with that of Surgery, already rendered philosophical by its great master, John Hunter. For if, in the study of hybernation, we learn the resources adopted by nature to prolong existence without food, when unobtain-able by the force of circumstances, so, in the study of disease, we should seek to learn what are nature's methods of sustaining life while reparation is progressing.

No disease affords a richer illustration of these resources than

cholera. A knowledge of the expedients which nature actually adopts to sustain life in this disease, under the influence of its mortal poison, indicates, to my mind, the path which should be pursued; and I am convinced, by long experience, that action poor this knowledge leads to the best results in treatment. These expedients may be thus enumerated:—I. Diminution of the heart's action. 2. Diminution of the advantage of the blood. 3. Elimination of the poison. 4. Alteration of the constituents

 ⁽a) Read at the Royal Medical and Chirurgical Society, January 24, 1872.
 (b) Oper cit.

of the blood. 5. Cramps. 6. Veno-contractility. 7. Instinctive sensibility. 8. Diminution of the temperature of 6. Veno-contractility. 7. Inthe surface.

It is true that these symptoms display a dangerous deviation from a state of health, a result to be expected from the presence of a virulent morbid poison; but to hope that any interference with these symptoms would ameliorate the patient's condition, is really, from my point of view, as absurd as to expect that a patient with broken legs should be able to take his usual exercise before the reparation of the injury has been accomplished,

although the absurdity is far less obvious.

If, in the accident of broken bones, we deem it necessary to secure such advantages to the patient as easy position, repose, and symmetry of the injured limb, with careful regulation of the diet, it must surely be equally necessary to place the cholera patient under similar advantages; but in order to do so, the physiological condition of this patient must be fully compre-hended, and it may be thus explained. The blood, then, contains a mortal poison urgently threatening life. Relief and safety depend on freedom from this poison. The method by which this freedom is accomplished may well fill the mind with admiration and the certain conviction that such a masterpiece of contrivance is to be found in the operations of pature alone; while in the exercise of human ingenuity we too frequently find nothing but blunder. I offer here only a rade sketch of the plan, as a more subtle scrutiny would occupy too much

Pages.

The effect of the poison is, first, to diminish the heart's

The effect of the poison is, first, to diminish the heart's

action, which is necessarily associated with diminution of the

action, which is necessarily associated with diminution of the

arrange of the poison is a single poison of the poison

arrange of the poison is a single poison of the pois by secretion, which, again, affords both an escape for the poison as well as for such constituents of the blood as might occasion embolism in this abnormal condition of the circulation. The cramps possibly result from the law which assigns increased muscular irritability to diminished respiration, thus affording

assistance to a feeble circulation by vis a tergo.

Veno-contractility is a term used by Dr. Marshall Hall to express a property which the left ventricle of the heart acquires in hybernation - namely, that of contracting under the stimulus of venous blood-although under ordinary conditions arterial blood alone will excite it to this action. It is possible that veno-contractility in cholera may afford an explanation of that phenomenon, so incomprehensible and even shocking to the mind of Magendic, refuting, as he declared, all that he had taught respecting asphyxia, a condition which he and others have erroneously assumed to exist in cholera.

lance erroneously assumed to exist in cholera.

Of the instinctive consibility, by which inordinate draughts of cold water are so urgently desired, it may be said the advantage is now generally appreciated; and of the dimuntion of the temperature of the surface it may also be said that it is a vital phenomenon necessarily associated with the condition of the circulation. It is to be hoped that the reflection that of the circulation, it is to be hoped that the reflection that distribution of the circulation is the surface after death than distribution of the circulation. It is to be hoped that the reflection that the condition of the circulation is the surface after death than the condition of the circulation is the surface after death than the condition of the circulation is the surface after death than the condition of the circulation is the surface after death than the condition of the circulation is the condition of the circulation of the circulation is the condition of the circulation of the circulation of the circulation is considered to the circulation of the circulation of the circulation of the circulation of the circulation is considered to the circulation of the during life may induce Practitioners to desist from useless

during life may induce Fractitioners to desist from useress efforts to warm the surface, especially as they are so harassing to the feelings, and so prejudicial to the recovery, of the patient.

I subjoin a case in illustration of the philosophical treatment

above suggested:—
I was called at 5.30 a.m. on Sunday, July 17, 1870, to see Mrs. O., who was supposed to be rapidly dying. The patient was violently attacked with vomiting, purging, and cramps while visiting a daughter the previous evening, and could not be removed to her own dwelling. She was lying upon a sofa; her skin was very cold, but she was unable to bear much covering; her eyes much auken, and pulse very feeble. Very anxious inquiry was made of me, by several of her relations who surrounded her, if there were any possible chance of her recovery, as her appearance was so altered in a few hours as to be her? to be hardly recognisable as the same person she had been the day previously. Her age is 65. I replied that she was in a very serious condition, but that I hoped and expected that in a few days she would be pretty well again; and that I conn few days she would be pretty weil again; and that a considered her safety depended, mainly, in the strictest attention being paid to the directions I gave for the care and management of her case. Some ice was immediately procured by her son-in-law, and she was to take nothing whatever for the next twenty-four hours but iced water. It was anxiously objected, that she was so cold, and that already she had been able to keep nothing on her stomach for about twelve hours. assured her anxious attendants that iced water would not only refresh her more than anything else during the whole of the period in question, but that it would not be even safe to give her any other refreshment whatever.

On my second visit, at 9 a.m., I saw her alvine evacuation.

which I had directed to be kept for my inspection, and which proved to be what is known as resembling rice water. Having an engagement out of town in the afternoon, I took with me Mr. Edward Samuel Lee, of Savile-row, at 2 p.m., who kindly undertook to visit her again early in the evening, as I could not return until 10 p.m., fearing that the anxiety of the patient's friends might occasion some interference with

my instructions during my absence. 10 p.m.—The cramps had subsided; there was still some retching at lengthened intervals; pulse improved; diarrhea had ceased, and patient felt altogether better, and had had a short but refreshing sleep.

July 18, 10 a.m.—Patient shows considerable improvement and in every way; had not micturated since Saturday at 5 p.m.; to have broth if she liked it—a teacupful at a time, and repeated at pleasure. In the evening she took a little

tea, and has recently passed a little urine.

Tuesday, 19th.—Has become cheerful, has had a moderate alvine evacuation tinged with green bile. She is to take a few small slices of bread with her broth, and in the evening

sew simal succes of oreas with ner crotin, and in the evening she is to take some thinly cut bread-and-butter with her tea. Wednesday, 20th—Took tea and bread-and-butter for breakfast, grary soup and bread for dinner, tea and bread-and-butter in the evening, with a return of appetite, and was now quite convalescent, and has remained well.

41, Great Marlborough-street.

CHINESE BLISTERING FLIES. By F. PORTER SMITH, M.B. Lond., M.R.A.S.

THE entomology of China is not peculiarly rich, when we bear in mind its semi-tropical character as a climate. The extreme, or considerable, cold of the country proves fatal to the crowds of insects which infest the house and the field, but of which a mere salvage is saved to renew the sorts. In no country, however, is o much weather grainered from the about or insects of the the Corus politic, which secretes the appermanci-like wax of Chinese pharmacy; the Goesss manniparus, which prepares honey-sugar; the alikworn; the diplolepis-gall produced upon the oak-tree; and the nnt-galls (Wa-pei-tez) produced upon the Rhus semislate, and Rhus succedance, are instances amongst others of that ingenious turning to account of things which is a strong habit of the utilitarian Chinese.

Insects, a large class, called, in Chinese classifications, Ch'ung, and including frogs, mollusks, etc., are consumed by the Chinese

as internal remedies.

Centipedes, scorpions, pediculi, and many other larval or imaginal forms of insects, are swallowed in wine as antidotal. derivative, and revulsive remedies. An anomalous creature. called the His-ts an-tung-ch'ung ("in summer a plant, in winter an insect"), is a capital sample of a Chinese pot medicine. It is the Hepialus moth, with the Cordyceps Sinensis (fungus) growing parasitically upon it.

Blistering flies are largely used in China. They are employed as diuretics, and to produce criminal abortion, so that their sale to ordinary persons is scarcely legal, and their use their sale to orunary persons is searcely legal, and their uses for such a purpose heavily punished by the Manchu Code of China. The Mylabris cicherii (Pan-mau), the Tellini fly of India, is largely used in the country, as in the composition of an eye-powder (Yi-miny-sha), commonly believed to be the dung of the bat. This insect is an excellent substitute for the Cantharis of European pharmacy. The Cantharis crythrocephala, a common European species, is met with in North China, but the Cantharis resicutoria has not been met with.

Species of so-called Epicauta are met with in China, and are apparently called Tsiu-man, or Zizyphus bug, from their resemblance to the fruit of that genus of so-called "dates."

resembance to the fruit of tank genus of so-caused "axes. The genus Epicenta, known by their running more to lege and horns, is now generally put with Lytic and Cambaris. Another kind of blistering fly, now to European pharmacy, is the Chi-ki, or Allanthus bug. It is called, literally, that "foul of the Allanthus Icidiad." From the noise which it makes in common with other cleadaceous insects of the class Homop-tera. It is also called Hung-liang-tese, or "red lady-bug," a curious coincidence with the name of a common English insect, the ladybird. Several species or varieties of this insect are described or alluded to in the Pun-ts'an-kang-muh, or Chinese Pharmacopoia. The genus called Huechys, from the Chinese Pharmacopoia. The genus called *Hucchys*, from the Chinese name for blood, is met with in Java, as well as in North and South China, and other places. The head, thorax, and legs are

black, the prothorax is cd; the eyes are very prominent; a large red bright spot on each sold of the thorax above; the front pair of the bear of the innect; the hind pair of wings are pale, with brown veins; and the belly of the creature is of a bright vermillon-red colour. Mr. Frederick Smith, of the British Museum, informs me that Barmeister places this insect, which I have called the Red Cleades an appet 237 of my own knot thiness. Materia Medica, in the order Creading, family Stridulantia, This same gentleman also informs me that Olivier ("Encycl. Method." v. 756), calls it the Cicada sanguinolenta, whilst Amyot and Serville describe it as the Huechys sanguinea. This latter name is redundant, as both the genus and species mean bloody. It would be better to call the Chinese species Huechys resicutoris.

One Chinese variety is called the "ash-coloured moth." The chi-kl is met with in Sechuen, Shansi, Honan, and Hupeh, and ehi-bit is met with in Sechéen, Shansi, Honan, and Hupeh, and frequents the Allenthus, Brossonotta (ascens) paperylera, and several other trees. They are met with in great quantities in autumn, when they make a grinding noise, and are collected by the country people, who sell them, fresh, to the druggists, at a few pence per pound. They are capable of raising a blister, the property of the property of the property of the contraction of the best of the property of the property of the property of the The lors and wings are removed, and the bodies only used for which they are combined in the treatment of hydrophobia. The legs and wings are removed, and the bodies only used for medicinal purposes. They are recommended, in the *Dunct'sen, deficient belois, lumbage, disease of the eye, etc. The drug is curiously directed to be used as a vaginal suppository in female disorders. It is combined with olbanum, arsenie, at ammoniar, and rise-paste, as an application to struma of the movement of the supposition of the suppos neck. There use in nyuropaous, along with the Agyabri, to produce strangury, is in accordance with the Chinese theory that the bite of a mad dog impregnates the person, who is not safe until the delivery of a fortal dog by way of the urinary passages. Hydrophobia is with them the climax of the period of gestation, and they promote parturition by giving the Hucchys and the Mylabris internally; or, rather, they endeavour to induce abortion, as the drug is administered in wine at once in induce accretion, as one army is summinatored in which at ourself as such quantities as to cause violent strangury. Along with the blood and other substances passed by the patient they profess to find a little dog. The Chinese Dectors reason well enough that dog-bitten people die, and may be fairly treated after any extreme fashion. From this it may be gathered that the people extreme fashion. From this it may be gathered that the people extreme tashion. From this it may be gamered that the proper die after the remedy even more promptly than after the bite alone. The drug can, therefore, be scarcely recommended for trial in such cases. It is creditable that few remedies are highly vaunted in Chinese Medical works for a malady which nightly valuated in camese attention were not a manay when is not common in China, where dogs are as plentiful and plaguy as in Constantinople. These blistering cicadas keep very badly, and, therefore, often disappoint the purchaser in China, where drugs are badly treated, like the patients.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

DISPUTED POINTS IN THE DOCTRINE OF SYPHILIS.

(Continued from page 570.)

HAVING considered the principal fasts relating to the kinds of venereal sore commonly encountered, and the relative proportions of these, it will be remembered that the general conclusion we had arrived at with regard to specific infecting sorse was, that they might exist either with or without a hard base. This, therefore, seems to be a well-ascertained fact; if so, then to what is the hardening process frequently encountered due? In that the contraction of the second of the contraction of the con

important bearing on its character. In reply to the query—"Is difference of character due to difference in texture of the part affected, or to the infecting agent?"—Mr. Manudor and Mr. Buxton Shillitos say briefly that the difference, in their opinion, is due to the infecting agent.

Dr. Barton, of Dublin, goes farther; he says:-"The difference appears to me not to be due to the texture of

1000

the part affected, as I have observed the two species of sore on very different textures, and upor a great variety of parts. I conclude, therefore, that the difference is due to the difference of

the infecting agent in each case."
Mr. Henry Lee thinks the difference is "due to both, but especially to the infecting agent;" whilst Mr. Langston Farker thinks it "in most cases due to the difference of texture." Mr. some a set of the difference of texture, "Mr. sores, as a class, is due to a difference of infecting agents; but, excluding local sores, the initial lection of sphilits is very greatly modified in its appearance by the texture in which it may happen to be placed. For example, induration is nually, not always, very defective on the glans penis, and very copions on the prepare. This peculiarity is often seen when a see invades

Doth Darra' at once.

Dr. McDonnell, of Dublin, writes thus:—"The hardness which surrounds the base of a well-marrked, indurated sphillitic ulcer is certainly most distinct when the surrounding arcelar tissue is lax; when it (the hardness) encroaches on the glaus penis, it is less distinct. It is also distinct in the labium. On the prepuec, it can be so readily taken up between the finger and dumnt, that it is there seen in its most exaggrated degree; and also on the skin of the penis. On the lower lip the hardness feels more diffused, as it does in the labium of the female."

The evidence of the two following gendlemen is very strong:— Mr. James Lane saya.—Difference in character is due nore to difference of texture and difference in constitution than to the infecting agent. Mr. Gasseyan is still more positive in his statements, and to these we are disposed to give every weight:—I think the difference in the objective character of and to constitutional peculiarities of the individual rather than to the infecting agent."

Thus, the weight of evidence would incline us to believe that site or texture and constitution had more to do with hardness or softness than the nature of the infecting agent. On this subject Bunstead asys—"The situation of the chance influences, to a certain extent, the degree of development of the induration, which, for instance, is generally slightly marked, and of the parchment variety, upon the walls of the vagina developed into left the subject of the subject of the subject of the former as the base of the glass, and upon the lips. Some authorities have gone so far as to maintain that induration is entirely dependent upon the sead of the sore, and have instanced the uniformity with which all venereal ulcers upon the lips are indurated in proof; but as before stated, this objection to the duality of veneral poisons has been effectually exploided by recent experimental inconstituous, in which chancroids with a perfectly soft base have been developing upon induration corresponds to the lymphatic supply, being most-marked where the latter is most abundant, and inventoria. This, nevertheless, some somewhat mere than doubtful.

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To our next inquiries—(6) "What is the proportion of suppurating bubbes following veneral sores, and what sores do they follow?" and (7) "Is a suppurating bubb any protection against secondary symptoms?" - we have received various

replies.

Mr. Henry Lee says the suppurating bube follows the suppurating bube follows the suppurating bube follows. The pnrating sore, and no other, except from accidental causes. The sore which produces the suppurating bubo does not infect, but this is no reason why another should not. As to protection, he thinks the suppurating bubo affords "none whatever."

Mr. Maunder says the percentage of suppurating buboes is

small. They follow soft sores, and afford no protection against secondary symptoms. Mr. Buxton Shillitoe says the percentage of such bubbes following soft sores is from 15 to 20. They rarely, says he, follow hard sores, and their presence is no pro-tection against secondaries. On the other hand, Mr. Langston Parker, whilst maintaining the same views with regard to the connexions of soft sores and buboes, holds that the suppurating bubo "very frequently" acts as a protection. This discrepancy of opinion may, however, be explained by some others of the answers received. Thus, Mr. Berkeley Hill says:— "Suppurating bubo is caused much more by local irritation or mechanical irritation than by the nature of the lesion on the genitals. I find in thirty-two cases of sup-purating bubo, in six there was only a urethritis; in six others, general syphilis; in nine others, a hard based sore, without anyother sign of syphilis; in eleven others, the sore was soft out any other sign or sypning, in severe others, the sore was soft to the control of the control occur during the existence of any kind of sore. On the other hand, it is not a necessary concomitant of any lesion."

Dr. Barton says :- " I have only once or twice seen a supparating bubo with a syphilitic sore;" whilst Dr. McDounell, also of Dublin, says:—"Suppurating buboes may follow any kind of sore, but are by far commoner as a consequence of simple venereal ulcers than of syphilitic. When a patient has had a suppurating babo, one may hope that the sore which caused it has been a simple sore; if so, of course there is a good chance that no secondary symptoms will follow.

Mr. Gascoyen's views are as follows :- "6. Suppurating bubors occur generally with those sores which secrete pus, and are, therefore, usually found with soft sores; but they will also follow hard sores which have become irritated. I should say that suppurating buboes were met with in about one ease in ten; but ten; but the number would be much less if rest and proper care could be obtained. 7. I do not think that a suppurating bubo affords the slightest protection against constitutional disease.

Mr. James Lane's remarks are full of interest; they are as follows :- " 6. Suppurating buboes follow both kinds of sores, but the soft much more frequently than the hard. Suppurating buboes are presentible by early and proper treatment of the sores. In women subject to the Contagious Diseases Act they are almost unknown. In other women admitted into Lock Hos-pitals they are exceedingly common. 7. As a matter of fact, secondary symptoms are rare after suppurating buboes; not because they are protective, but because suppurating buboes are usually associated with soft sores, after which secondary symptoms are uncommon.

symptoms are uncommon.

These remarks by Mr. Lane and Mr. Gascoven are well worth general attention. They, as well as Mr. Hill's statements, serve to explain the connexion between chancres and buboes. Furthermore, we commend them to the attention of the opponents of the Contagious Diseases Acts. It is plain that these Acts have been efficacions in removing at least one of the evil consequences of venereal disease.

KING'S COLLEGE HOSPITAL

OPERATIONS.

On Saturday, June 3, the following operations were performed by Mr. Henry Smith :-

The first patient introduced was a little girl, who was the The first patient introduced was a little gur, who was an subject of a large nerus involving the upper lip and slightly extending into the nostril. It was mainly cutaneous, and did not implies the mucous membrane at all. Mr. Smith was enabled, by means of Sir William Fergusson's plan of operating, to surround the entire growth with threads and effectually strangulate the mass

Mr. Smith next performed his operation for hamorrhoids upon a young woman, who had suffered long and severely from hæmorrhage from two internal hæmorrhoids, which were constantly protruded. She was placed under the influence of chloroform. Each of the tumours was seized with a forceps and pulled down. The blades of the scissors were applied at the base of the tumour, at the junction of the skin and mucous membrane, and the tumour being embraced within the blades of the clamp, they were tightly screwed home. The prominent surface of the tumour was cut away, and then the cautery was applied very freely to the raw surface at a black heat. The clamp was now carefully released by means of reversing the screw in the handles, so as to ascertain if any vessel was still bleeding, and as the vessels were found to be all scaled up, the parts were well oiled and passed up with the finger, and the operation was completed.

Mr. Smith very carefully explained the mechanism of his operation, and stated that now, after the experience of hundreds of cases, he had no hesitation in coming to the conclusion that it was free from all the dangers and disadvantages of the ligature, and that the convalescence was much shorter. As a rule, the patients operated on were not confined in the Hospital more than four or five days, except in cases like the present, where there had been long-continued hemorrhage. In such instances the convalescence was of necessity more protracted.

The last patient brought into the theatre was a healthylooking man, of about 30, whose case Mr. Smith particularly referred to as a very interesting and unusual one, and attended with circumstances which rendered the proper course of action with circumstances which rendered the proper course or neuron very difficult to decide upon. The man was one of the gardeners cuployed at Kew, and, many months previous, he had poisoned his left thumb, as he supposed, by means of some of the noxions plants he was obliged to handle. Ulceration took place, the nail separated, and there was not any tendency in the part to heal. He was seen by an excellent Practitioner, an old Housenear. It was seen of an excellent frictitioner, an oil frouser. The ulceration appread, and in whether the present of the pres necessary to remove it, but, seeing the state of things in the axilla, he was coubtful if it would be prudent to adopt this course, as it was possible that the glandular swelling might be the result of some secondary deposit of a malignant character. Sir William Fergusson saw the case with Mr. Smith, and he Sar William Fergusson saw the case with Mr. Smith, and he recommended delay. The patient's health remained good, and there was not anything of a malignant aspect about his face, and it was hoped that the swelling in the axilla might be simple calargement, and that it might subside, or suppuration might set in. In about a fortnight the swelling increased; there was considerable prominence of the pectoralis major, and the parts became very tender; it was clear that suppuration was setting in. The axilla was well poulticed, and in a few days, on an incision being made into the axilla, a large quantity of purulent matter was evacuated. Mr. Smith at once decided that so soon as the suppuration had diminished the source of irritation should be removed, and this day he accordingly amputated the greater portion of the thumb, and on cutting into the diseased mass it presented all the characteristics of a firm fibroid tumour connected with and necrosing the terminal phalanx; the whole of the exterior of the mass was in a state of ulceration.

Mr. Smith remarked that there was great difficulty in deciding as to the proper course of action here at first, for, although it was clear that the thumb could not be saved, the existence of the swelling in the axilla was a suspicious circumstance, and of the swelling in the axilla was a suspicious circumstance, and pointed to the possibility of some malignant deposit; and he need not say that to remove the thumb and leave a mass of of waiting was here shown, as it rendered the course of action clear. Mr. Smith stated that he had on a previous occasion seen a somewhat similar case in one of the gardeners at the Regent's-park, who had a most intractable ulcer on one of his fingers. Months clapsed before it get well, which it ultimately did under the use of arsenic internally.

We should have mentioned that the cases from the York County Hospital, published last week, were kindly communicated by Oswald Baker, Esq., the House-Surgeon of the Hospital.

THE Gazette de France reports that the health of Paris is improving; only four cases of small-pox are reported for the past week.

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Medical Times and Gazette.

SATURDAY, JUNE 17, 1871.

THE HANDEL FESTIVAL.

AMONOST the influences which bear upon the public health, Professor Acland (in his late lecture at the Royal College of Physicians) enumerates music. He describes how, on the one hand, bad music may be a source of foulness, degradation, and vice; and, on the other hand, how "vigour may be thrown into the hearts of a nation" by such ballads as the "Wacht am Rhein." Even as an art, it should not be undervalued. " It excites," he says, " feelings of the warmest sympathy and admiration to hear the attained results of Leslie's choir, or such societies as now exist in many of our towns, where persons of every class and occupation show an advanced mastery and appreciation of the choice works of Handel, Mozart, Beethoven, Mendelssohn, and acquire a pure culture unalloyed by eating or drinking, or other frivolous ways-culture, moreover, not of a light kind, but one which insures the development of certain mental qualities of accuracy, attention, precision, and refinement, which may be equalled, but not surpassed, by the exercise of other of our faculties.'

We may plead, then, the authority of Professor Acland if we venture to introduce into a Medical periodical a very few remarks on music, suggested especially by that great musical "orgy" (to use the word consecrated by Handel) which brings votatries from all England to commemorate that illustrious composer. We may further plead that Handel was the son of a Physician who practised at Halle.

The special characteristic of Handel is grandeur-the power which he possessed of clothing ordinary ideas in lofty phrases. We sometimes hear him praised for his powers of imitation. Now, all music is in some sense imitation. It may bring before the ear the sounds produced in external nature, or the sounds suggested by internal emotion and mental condition. But imitative music per se-that is, the "objective"-must depend for its artistic value on the thing imitated; whether that be of a character to excite the emotion which art ought to excite. To represent the leaping of frogs and the buzzing of swarms of flies (as in the first part of "Israel in Egypt") is of itself trivial, because all the associations are trivial, if not disgusting. With thunder or artillery, with muffled drums, the conditions are different-the associations grand or terrible. Again, we hear him praised for the tremendous volume of sound with which his works are rendered. As Pope says,-

Strong in new arms see Giant Handel stands Like bold Briareus with a hundred hands; To rouse, to stir, 10 shake the soul he comes, And Jove's own thunders follow Mars's drums." But it is only that which has the requisite proportions which is capable of being magnified; we may have a colosal Minerva, but a colosal doil would be but the more insipid. Neither is it that Handel is in all cases original, for, like other sensible people, he had no scruple in borrowing such phrases, and even such passages, as came to his hand. Many phrases in the introduction to the "Dettingen Tr. Dessa" are borrowed; so they are in the "Octomorus." "They lotted to drink," and "He lied them through the deep," are reproductions of some of Corelli's sontata (a). But the timid, restricted phrases of this charming composer—how they expand when recent in "Anadel's gigantia mould!"

That which may interest the Medical philosopher is the fact that 4500 persons, who have deroted their time to the attainment of the highest musical skill, all obeying the magic belicon of Sir M. Costa with one impulse, and perhaps from 30,000 at 100,000 persons, from all parts of England, come to a ceremony which requires in the executants the highest labour, culture, and discipline, and in the auditors an appreciation of the subline in music, as distinguished from the merely boisterous or sensational, the trivial or the functiful. The effect of such commemorations on public health cannot be other than good; low and debasing ideas are for a time alth out.

PROFESSOR HUXLEY ON MEDICAL EDUCATION. PROFESSOR HUXLEY distributed the prizes at the Charing-cross Medical College on Friday last. In his able address after the distribution he touched on some points worthy of especial notice. First, with respect to the recipients of the prizes, and those who unsuccessfully competed for them. Whilst he heartily congratulated those who had been successful on the present occasion, he still more heartily expressed a hope that those who had not attained success might continue in their efforts until they did attain it. But he qualified his approval of the prize system in these very remarkable words :- " The successful men in this world were not those who went off at hard gallop, but, if he might use racing phraseology, those who would 'stay. It often happened that those whose early career was slower and quieter than that of others, exhibited a greater amount of wind and tougher staying power, and came in at the winningpost at last." Nothing more practical or more applicable to the question at issue was ever uttered. Prizes in schools of Medicine are not to be spoken of lightly. They stimulate the energies of the student, and give him a distinction at the commencement of the race, flattering to himself, and promising future success. But the history of prizemen does not bear out this pleasant theory. On the contrary, like precocious children, prizemen too frequently break down in after life. We do not allude to him who is first in a single class, but to him who is first in all departments. As a rule, he is too heavy-weighted with honours to continue the long race of life which is before him. In fact, he has exbausted his energies before the real race of life has commenced. The career of too many successful prizemen affords a melancholy illustration of this fact. Broken down in constitution, their mental energies exhausted, they are "nowhere" when the real struggle has to be made. Professor Huxley himself, we believe, only obtained a certificate of proficiency in physiology. He urged upon his audience the importance of plodding industry, which was often of more service than brilliancy or talent, and of using their Pegasus as a plough-horse, instead of permitting it to soar aloft. He noticed with great satisfaction the important changes which had taken place in the study of Medicine in late years, but there were still great practical difficulties in the way of obtaining efficient teaching in the theoretical branches of the Profession, such as physiology, chemistry, and anatomy, which were what the Scotch called the "institutes of Medicine." He

suggested that these elements of Medicine should be taught by persons devoting themselves entirely to those subjects, in two or three great centres; and if Hospitals were turned to what he believed was their especial and most important work-the practical teaching of those who were already grounded in theory-the state of Medical education would be far different to what it was now, and the effect of such a change would soon be apparent in its results. These are great words, pregnant with an important truth. There can be no question as to the importance of grounding a candidate for the Medical Profession thoroughly in all that is preliminary to the practical duties of his calling. We would say that that preliminary education should not be carried too far. The great mass of the Practitioners of Medicine have to deal with the treatment and cure of disease. It is not necessary, to do that successfully, that every Surgeon-Physician should be a Huxley in physiology or a Graham in chemistry. The landmarks of the practice of Medicine are clear and defined. The most successful in the past, as they will be in the future, to use the language of Matthew Baillie, "are those who combine a competent knowledge of their Profession with good common sense." With regard to Baillie, an anecdote here may not be without its purpose. Baillie, as plain and common-sense a Practitioner as ever devoted himself to the study and practice of Medicine, once met the classic and accomplished Gregory in Edinburgh. They were not satisfied with each other. Gregory said " Baillie knows nothing but Physic"; Baillie retorted, "Gregory knows everything but Physic." Professor Huxley's recommendation will some day be carried out; at prescht we are scarcely ready for it. But no one can deny that the multiplicity of subjects to which a student has to attend in his short stay at the Medical schools is bewildering and injurious to him. Professor Huxley alluded with much good taste and feeling to the advantage of the free scholarships connected with the Hospital. He had himself been admitted a free scholar at a time when such a privilege was of great importance to him. On the whole, the free scholarships of Charingcross Hospital have been a success, and the means of affording assistance to many who have done credit to their alma mater by distinguishing themselves in after life.

THE SMALL-POX EPIDEMIC. THE deaths from small-pox in London last week, as registered, were 245-an increase of 16 upon the previous week. In estimating the weekly fluctuations, allowance must be made for irregularities of registration, and what we have chiefly to look to is the general direction which the mortality is taking. Viewing the numbers furnished by the Registrar-General, in this way we can see ground for hope in the fact that on the two occasions on which a weekly rise has taken place after a decline since the week ending May 6, the former has not attained a figure as high as the last high number recorded. Thus, in the week ending May 20, when the mortality rose from 232 to 267, the latter number was 21 short of that recorded in the week ending May 6; and now, when a rise is recorded from 229 to 245, the latter is 12 short of the mortality in the week ending May 27. Such fluctuations in the decline of the epidemic, which we have reason to believe has set in, are no more than are to be expected. The principal increase of mortality appears to have taken place in the West districts, where the deaths have been rising steadily for the last three weeks, the weekly numbers having been 16, 21, 28, 39. The next greatest rise has been in the South districts-from 75 to 85 deaths. In the North the deaths have lessened from 82 to 74. St. Pancras. Walworth, and Battersea are stated by the Registrar to be the parishes which showed the heaviest mortality last week. We are glad to observe from the returns of the Association of Health Officers that last week the fresh cases in St. Pancras

had been reduced from 113 to 77. The disease appears still to

be very bad at Southampton, where 26 deaths were registered, against 16 in each of the two preceding weeks; this is equivalent to an annual death-rate of 28 per 1000 persons living.

THE MORTALITY IN CIVIL AND MILITARY PRISONS, AND IN THE ARMY.

THE Echo, while advocating the application of the enforced labour of the prisoners in our gaols to really reproductive purposes-by which these expensive and, in many instances, demoralising institutions might be rendered self-supporting as well as educational-states that their sanitary condition is generally excellent, and that the gaol death-rate is far lower than that of the army. The authority on which this information is announced is not given by our contemporary; but a statement appeared in the same columns some time ago with reference to the comparative mortality of soldiers confined in military prisons and of those serving in the ranks in the United Kingdom, to the effect that the latter was the greater. This led us to examine the alleged grounds for such opinion and we found that it was based on the entirely erroneous method of comparison instituted by Captain Du Cane, Inspector-General of Military Prisons, in his several reports on the discipline and management of those establishments.

In his report for 1868, Captain Du Cane gives a table of comparison of the health of the prisoners with that off the troops in barracks in the several stations at which military prisons are situated, from 1859 till 1868, the information as to the latter having been extracted from the reports of the Army Medical Department for that period. We shall only concern ourselves with the statistics for 1868, as the fallacy which pervades Captain Du Cane's method of handling them can be sufficiently demonstrated by the single instance.

In 1888, in an average strength of 38,892 soldiers in barracks at the stations above specified, 36,131 were admitted into Hospital, and 338 died: this gives rate of admissions, to the average strength, of 90, and of deaths 86 per cent, the percentage of deaths to admissions being '96. During the same year, in an average strength of 1241 soldiers confined in military prisons, 999 were admitted into Hospital, and 3 died: this gives a rate of admissions, to the average strength, of 80, and of deaths '24 per cent, the percentage of deaths to admissions being '30.

Captain Du Canc, as a means of further comparison, gives a statement showing the number of admissions into Hospital and deaths among the total strength of troops in the United Kingdom for the year 1868, as follows:—

Average Strength. Admissions into Hospital. Deaths, 78,264 70,277 841
Giving a ratio per cent. of—

Admissions to Strength. Deaths to Strength. Deaths to Admissions. 89 1.07 1.19

Thus proving to his own satisfaction that "the prisons are healthier than the stations in which they are situated, and the latter not less healthy than the general localities occupied by troops."

We find that in 1888 the total number of soldiers who passed through the military prisons at home was 8672, and that each individual having on an average spent only fifty-nine days in confinement, the average daily number of prisoners becomes 1241. In other words, during the year 1868 the population of the military prisons, instead of 'representing a homogeneous body, was changed very nearly seven times. But the admission and death-rates in a strength composed of changing elements do not admit of comparison with those prevailing among an unvarying body of men. The subjects are actually incommensurable; and we maintain that Captain Du Cane, in attempting to compare them, has been misled by a fallacy which completely authorites any conclusions based on such comparison.

It should further be remembered that soldiers, before being

transmitted to the military prisons, undergo a careful Medical caramination as to the probability of their being able to complete the prescribed term of imprisonment, and the labour and exercises incident thereto, without injury to their health; and that in not instances men who break down during the period of imprisonment are remanded for treatment to their regimental Hospitals, where not infrequently their deaths increase the rate of mottality in the regiment.

It is not improbable that the Eob_0 in its more recent comparison between the deuth-rate in civil gools and that in the army, has fallen into an error similar to that which we have demonstrated. The total number of prisoners confined during the year in the gools of the United Kingdom appears to have been 173,000, giving an average daily number of 21,000; so that the gaol population must have been changed more than eight times during the year. Now, if the death-rate of gools be calculated on the average strength, as has bent done in the case of the military prisons, it is equally about to compare it with the death-rate of the army.

A perfectly legitimate comparison might be made between the death-rates in civil and military prisons. For this purpose, however, we have not at present the materials our command. In selecting an object with which to compare the dath-rate in civil gaods, the author of the article in the $E\delta m$ may not have been aware that the mortality of the civil male population up to the age of 30 in the most healthy parts of England and Wales is greater than that of soldiers of the same age in the United Kingdom, and would, therefore, have presented a more striking contrast with the mortality of prisoners in civil große.

THE WEEK.

TOPICS OF THE DAY.

THE fate of the Medical Bills of the present session it was easy to foretell, and we have have no wish to over-estimate the foresight which led us to prophesy it as soon as there was a rumour of their production. The Bill of the British Medical Association sustained but for a short time the struggle for existence. The grotesque bantling of the revolutionary party represented by our contemporary the Lancet went quietly to sleep for the best months of the session, and was only awakened by its foster-mother, Dr. Lush, on Wednesday, to expire without a sigh; whilst the Bill of the Irish College of Surgeons, of which Dr. Brady had charge, and which was perhaps entitled, by its birth and constitution, to a longer existence than either of the others, also succumbed to the ley indifference of the House of Commons in the month of June. The fact is, no Medical Bill can be got through both Houses of Parliament which is not introduced early in the session, which has not the active support of the great Medical institutions and of the leading Physicians and Surgeons of the three kingdoms, and especially of the metropolis, and which is not cordially promoted by a powerful and popular Government. At present we see but little chance of these conditions being fulfilled. One of the main difficulties in the way is the divided state of opinion in the Medical Profession itself. Take, for instance, the subject of direct representation of the Profession in the General Medical Council. We have no hesitation in saying that a legislative measure which granted this would do more harm to the Profession as a scientific and united body than any unification of examinations would do good, much as the latter is to be desir d; and we believe our opinion is shared by the calm judgment of our Professional lenders. But it is well-known that this very point was that on which the Government Bill of last session was defeated, and that certain of the londest talkers, if not the deepest thinkers, in the Profession protest that direct representation is a panacea which must cure all our evils. For ourselves, we cannot regret that all attempts at legislation for the Medical Profession in the present session have failed, knowing, as we do, that no Medical Bill can pass without the active support of the Government, and that the price of that support must be the admission of Government interference in the scheartin and examination of the Profession, we confess ourselves not anxious for a new Medical Act. The main restores which the Profession requires is the unification of examinations. We still believe that this may be accomplished with case in England if a spirit of mutual consideration and good-will be brought to the work by the existing lifensing bodies. If a timp-int Examining Board be established in England, the example will technique for the more than the property of the example of the criating be followed in Scotland and Ireland.

Another meeting of the Committees of the three Medical temperations has been held at the College of Surgeons. We hear that a general determination was evinged to secure, if psychiot the aid and co-operation of the Universities in the formation of a Conjoint Board, and that some important steps were rate in Secure this object.

We have to correct a mistake which inadvertently crept into the prograph in which we noticed, last week, the claims of the diff cut candidates for election into the Council of the Broyal vollege of Surgeons. There are four vacancies to be filled, not three, as we stated—the fourth being occasioned by the retrement of Mr. Cock, who is a remort from last year, he, when his turn to retrice came hast year, being in possession of the Predictar's chair. The candidates, as we stated last work, are six—Messrs, Cock, Busk, Le Gros Clark, Spencer Wills, trinclett, and Bernard Holt.

The feet that the law does not provide any penalties which would 'prevent persons recovering from small-pox and other contagious disease, or having small-pox in their families, from exposing themselves behind the counters of shops, marks another of the many defects in our smilary pring-induce. It is of course clear that interference with the business and employment of persons is a thing to be avoided by the Legislature of a free country; but a line must be drawn somewhere, though where it is to be drawn, short of complete segregation of the sick and suspected, seems difficult to be seen.

Dr. Murchison has been recommended by the Grand Committee for the appointment of Physician to St. Thomas's Hospital. Mc Congratulate St. Thomas's Hospital and Dr. Murchison's removal to St. Thomas's Hospital and Dr. Murchison's removal to St. Thomas's Hospital will, of course, make a vacamer in the start at the Middlesser Hospital. Drs. Payne and John Harley are able recommended by the Grand Committee as Assistant-Physicians to St. Thomas's

There is a vacancy at St. Mary's Hospital for an Assistant-Physician. Three candidates are mentioned—Drs. C. T. Williams, Nunneley, and Shepherd.

Irrigation with sewage is undoubtedly remunerative. We notice that the Croydon Irrigation and Farming Company, notwithstanding many difficulties, have just declared a dividual of 15 per cent. per annum.

The annual conversations at the Royal College of Physicians, on We duesday, was, considering the state of the weather, very well attended. Amongst the visitors were the Nawab Nazim and his two sons, Professor Owen, Mr. Montague Chambers, 42.5..., etc.

THE BOYAL MEDICAL AND CHIRUBGICAL SOCIETY.

This meeting of this Society on Tuesday was signalised by two of the most admirable papers of the season. Mr Paget brought the weight of his authority to bear on the advisability of remaring innocent timotus from bours by simple enucleation, orther than by resection or amputation. Of course the important thing in such a case is a correct diagnosis as to the nature of the tumour, and the author hid down smidry most important rules for that purpose.

Mr. Spencer Wells followed with the results of his fourth bundred of ovariotomics, detailing still more favourable results than any he has berectofere attained. His statistic-showed a decided superiority in the chance of life on the part or private patients, and hethrew out a hint that this circumstance might be taken advantage of in future. The paper ended with hild details of the presentions to be taken in the differential disquesses of ovarian and uterine tumours; certainly the fullest and best we have ever encountered. Dr. West took the opportunity of comgratualizing Mr. Spencer Wells on his success, which must have been the more gratifying to Mr. Wells inseamed as Dr. West at one time was a determined opponent of the operation. Let us hope that before long Mr. Wells will be able to give as the results of his fifth hundred of operations, which, deabelies, will be more successful than his last.

MR. CARDWELL ON THE REPORTS OF THE MEDICAL COMMISSIONERS AT THE SEAT OF WAR.

In reply to Colonel Anson the other night, Mr. Cardwell stated that it is not the intention of the Government to lav before the House the reports of the Medical Commissioners deputed to visit the French and Prussian armies, as such documents hitherto have always been held to be "confidential." The Governments to which the Commissioners were accredited received them courteously, and gave them every facility in their power for the acquisition of all the information they desired, which information, if published in this country, might contain matter which would be disagreeable to the respective Governments concerned. To this, of course, as a matter of State policy, we have no wish to object; but, on a point of Professional interest, we venture to express the hope that Mr. Cardwell may permit an edition of the reports-from which all that he may consider as "confidential" on State grounds shall have been omitted to appear in the Army Medical Department Report of next year. We have no doubt, from the character and position of the several Commissioners, that their reports, in the torne which we have snggested, will be found to contain matter of much interest, not only to army Medical officers, but to the Profession generally.

PSEUDO-CHARITABLE INSTITUTIONS.

Pactures: Dispensaries, if properly worked and under judicious management, are calculated to be of great service to the lower classes. But they must be strictly provident and wife supporting; if otherwise they are a mere "delusion and a soare." We are led to those remarks in consequence of an influential meeting held at Manchester last week, at which the following propositions were discussed;—

"Whether it is possible and desirable to adopt the principle of provident dispensaries, whereby the working classes become regular members, and entitled to Medicine and Medical attendance, by a small regular monthly contribution.

regular memoers, and cutture to Medicine and Medicine attendance, by a small regular monthly contribution. "Whether it is desirable to raise additional support for existing institutions, by a payment of — shillings from each applicant for Medical aid, which payment shall entitle them to Medical assistance for one month.

"Whether it is desirable to seek the aid of employers, managers, foremen of mills, manufactories, and workshops, in making an annual collection for the various Medical institutions, to be divided in given proportions amongst them."

It will be seen that if these propositions were acted upon the "applicants for Medical aid" would demand as a richt that "aid" which would be, at least, partly charitable. It is not difficult to see to what numberless abuses this night give rise. If carried out generally in "charitable" institutions, two kinds of applicants would exist, the one-claiming as a right that which the other would receive in charity. This invidion distinction should not be made, and, in fact, could not, we believe, be efficiently carried out. That the system of out-door raised at Hospitals is abused to an extent scarcely credible, is well known; but the way to check it is not to make Hospitals merely Medical chils. Some

of the speakers at the meeting referred to appear to have been struck with the anomaly of a "charitable self-supporting system," and, after much discussion, the following sensible resolution, proposed by Dr. Drummond, and seconded by Mr. Hetherington, was passed:

⁹That a committee be formed to draw up a circular to employers, managers, foremen of mills, manufactories, and workshops, requesting them to make an annual collection amongst their workmen for the various Medical institutions, to be divided in given proportions amongst them.

There can be no possible objection to such collections, and, no doubt, more money will be princed in such a manner than by the shilling payment. The workman is then left at liberty to go to the Hospital or not, as he pleases; but what he gives voluntarily should give him no extra privilege. If he becomes a patient at a Hospital, he should be on equal terms with all other patients. The inunence majority of the working-men of this country prefer their own "club Doeter" to any relief from any institution. The patients os attended is "independent." He pays for what he gets, and he does not in any way identify himself with claritable relief.

PERSONAL EXPERIENCES UNDER THE COMMUNE. "An English Medical Student" has been detailing his expe-

riences of Paris under the Commune in the columns of the Daily News. 'The incidents through which he passed were of the most exciting character, and he has succeeded in describing them graphically and well. The indiscipline, disorder, and drunkenness of the soldiers of the Commune were lamentable. The officers were elected by universal suffrage. Men who had served five years in the regular army were eligible as captains, and even commandants, of corps. It was not uncommon for commanders to be incapable of writing their own names, and, in drawing up their reports, to be compelled to seek assistance from better-educated privates. Notwithstanding all this, the devotion of many to the cause was underiably sincere. The first ambulance established by the " English Medical Student" was in an old chateau near Neuilly, already perfectly riddled with bulls. He had nothing but a little lint, some water, his case of instruments, and a few bandages. His only assistant was an old barber, who was afterwards shot while attending the wounded at the barrieade in the Rue du Pac. The wounded men, when brought in, were for the most part intoxicated. He soon had 300 under his charge, and very shortly the floors became actually muddy with blood and dust. The battalion, originally 1500 strong, fighting day by day, became gradually reduced to a demoralised band of 720, among whom the "English Medical Student" was the only officer for whom the men had any respect. It was withdrawn into Peris a few days before the entry of the Versailles troops. The remnant having been surrounded, and probably shot, during our hero's temporary absence in search of supplies, he received a commission from Deleschize to the 96th Battalion, with which his service was very short and hazardous. He then received orders to establish an ambulance in the Northern Railway Station; he as Doctorin-Chief, with two assistants, apparently English students also. They here passed a night of extreme danger and fatigue. The bullets came whistling through the glass roof, killing some of the wounded, and re-wounding others. On the entry of the Versailles troops, the Doctor-in-Chief and his two assi. ants were taken prisoners, and ordered to be shot by the Lieutenant of the 85th Battalion of the regulars, but, on the intercession of a Doctor, they were reserved for further examination by the Grand Prevot, for which, however, very naturally, they preferred not to wait, but made their escape from the station at the risk of their lives, rejoined the Nationals near the harricade Voltaire, and essayed another ambulance. They witnessed the deaths of Deleschize, Longuet, and Vallès, and the summary executions of several men and women, many of the scenes being marked by a brutality almost incredible; and two days

afterwards Paris had resumed nearly its ordinary aspect, and no visitor could have imagined, if the dreadful traces of the fire had not existed, that such horrors had been witnessed. We congratulate the "English Medical Student" on his safe return to England, and trust that, in more psecula seense, he may reap a full harvest of honours and rewards from the experience acquired during such anazing incidents.

MARRIAGE AND LEGITIMACY.(a)

Mr. WEIGHTMAN, whose book on the laws relating to the Medical Profession is well known to our readers, has now brought out a small treatise on the laws relating to marriage, divorce, and legitimacy. This book, although primarily intended for practitioners in the Divorce Court, contains abundance of matter relating to questions in which Medical Practitioners may be concerned, and especially the dicta of lawyers in cases where legitimacy is contested-in cases where the term of utero-gestation is in debate, or the powers of an alleged father to produce offspring, or the legitimacy of offspring. Hence it is a work which should find its place in the library of every Medical jurist and student of State Medicine. It is very short and very clear, and contains statements which, though familiar to lawyers, must, we suspect, be very unfamiliar to non-Professional readers. Popular opinion, as the author observes, is very hazy on the question as to what constitutes a valid marriage-in fact, "the popular mind will frequently err to the extent of persnading itself that that is lawful matrimony which is expressly forbidden by legal enactment, and that that alone is unlawful wedlock which has not been celebrated by some acknowledged religious solemnities." By the law of nature, which is the reflex of the law Divine. no prohibition and no ceremonial regulate the voluntary agreements between any one man and any one woman to live together as man and wife. Originally, no prohibited degrees existed. Marriages of brothers with sisters and of cousins were inevitable, and the latter continue legal still. No degeneration, physical or moral, was the result, or the race must have been vitiated from the beginning; yet "the belief in such a result of consanguineous marriages continues one of the many vulgar errors, which necessarily arise in arguing from a foregone conclusion to the premisses, instead of from, the premisses to their legitimate conclusion." Thus, if there be a specific disease in any family, the marriage of two members of that family must intensify the disease in their progeny; and hence it is argued that such marriages are contrary to law, natural and Divine. But disease has been the growth of time and circumstance, and there is, to say the least, no proof that, in the early ages of mankind, any disease arose from consanguineous mariages. Let us say, that in this age of the world, when almost every family has some specific morbid tendency, the marriage of near relations, as a general rule, is inexpedient. The degrees of affinity prohibited in the Mosaic law were so prohibited for moral and not for physiological reasons. Whether marriage with a deceased wife's sister is amongst these prohibited degrees is not quite clear; but the prohibition of such marriages by the rules of every Christian church, and by the law of England, has been based upon purely social grounds. The Parliament of England has determined for itself the moral and social basis upon which the relationship of marriage is to be regulated. So, with regard to legitimacy, it is, says Mr. Weightman, "entirely a matter of social policy, under what circumstances the issue of a man and woman shall be deemed legitimate. In some countries one rule prevails, and in some, another; and just as the validity of marriage depends upon the law of nature, plus any municipal regulations, either of a moral, social, or ceremonial character, so does the legitimacy of the issue depend on the like law. The one is a corollary to the other." Mr. Weightman bases his book on the Legitimacy Declaration Act, which was intended to enable the offspring of numerous irregular and ill-attested marriages in the colonies to claim and obtain a certificate of legitimacy. Hence the necessity of enforcing a knowledge of what constitutes a really valid marriage; and of showing the delusion that any religious extemosy per se confers that validity.

HAIRY MEN.

As the question of hairness has entered somewhat largely into the great Darwinian controversy, and as the Ainse are the most hairy men in the world ("Tho Descent of Man," vol. i., p. 32!), it may be worth while to devote a few lines to the external characteristics of these almost unknown people. The latest writer on "the Ainses" is Mr. Satow, who holds an appointment in our Legation at Yedo, and who some years ago visited two of their villages. In a short but valuable paper which he has published in the Phenizia(a) be gives the following account of the appearance of both scace:—

"Thus are a series of about 12 and 12 are some stature as the native of Jayan proper, but the timense bushimase of the beard and heir in the older men gives an unnaturally large appearance to the head. The beard and moustache are allowed to attain their fullest development, and in some cases the length of the former appeared to be fully twice or fourteen inches. The hair on the front part of the head is clipt shert, but that at the shoulders. The colour is of a true black, unlike that of the shoulders. The colour is of a true black, unlike that of the Japanese, which is reddish-brown. The body and limbs are thickly covered with black hairs, about an inch in length. The colour of the skin is brown. The cyes are horizontal, and the nose is generally well-formed. The women are of proportional stature to the men, but, unlike them, their appearance is the state of the state of the same part of the skin assess down to the shoulders."

Nothing is stated as to whether their bodies and lights are especially hairy. The Ainos are a race very low in the scale of humanity; their gods are white sticks placed in the ground, with shavings depending from their upper ends; their weepons are of the rudest nature: their women are hideously tatooed; the women have no individual names; and their only luxuries are soki and tobacco.

Mr. Adams, in his "Travels of a Naturalist in Japan and Manchuris," describes a visit he poid to an Aino village; but, with regard to the peculiarity we are now specially considering, he merely observes that their hirsute limbs, long tangled hair, and bushy beards have carned for them the souteriquet of "hairy Kuriles."

THE HASTINGS PRIZE MEDAL.

The Hastings Prize Medal of the British Medical Association has been awarded to Dr. J. Milner Fothergill, of Leeds, for his casay "On Digitalis: its Mode of Action and its Use." The adjudicators (Drs. Charlton, A. P. Stewart, and Waters, of Liverpool) describe it as an essay of great original merit.

EPIDEMIOLOGICAL SOCIETY.

At the general meeting of this Society, on Wednesday evening last, Inspector-General Lawson was elected President for the ensuing year, in succession to Dr. Seston; and Professor Corfield, M.D., as Secretary, in succession to Mr. J. N. Radeliffe. A short discussion followed on the paper read at a perciona meeting by Inspector-General Lawson on "Cholera on board Shipa at Sea."

FROM ADROAD,—THE DAMAGE DONE IN PARIS—DEATHS FROM CHLOROFORM IN THE UNITED STATES—GROWTH OF THE NAILS AS A PROGNOSIS IN PARALYSIS.

⁽a) The Law of Marriage and Legitimacy, with especial reference to the Legitimacy Declaration Act. By Hugh Weightman, M.A., of the Inner Temple, Barrister-at-law, London: Sweet, 1871.

WE have not heard as yet of any of the Paris Medical men of

⁽a) The Phoraux is "a monthly magazine for China, Japan, and Eastern Asia;" it is edited by the Rev. J. Summers, Professor of Chinese in King's College, and the numbers hitherto published—cleven in all—contain many papers of great interest.

note having lost their lives during the late dreadful scenes, although, in passing to and fro to the various ambulances, they were constantly exposed to the most imminent risks. The langer, indeed, was not confined to the ontside, as balls and stells often penetrated to the interior of the Hospitals, as well as of the houses. Several have, however, been severe sufferers in their property, their houses or apartments having been burnt, together with their libraries, manuscripts, and various objects whose loss is irreparable. Among the sufferers are, MM. Dechambre, editor of the Gazette Hebdomadaire, Laboulbène, Genouville, Martineau, Audhoui, Paris, and Lacroix. Others, by their courage, presence of mind, and energy, succeeded in saving their own and neighbours' houses from the flames when menaced by incendiaries. Thus, M. Linas saved the one he inhabited in the Place de la Madeleine, by establishing an ambulance in the courtyard, and receiving the federal wounded. In the Rue de l'Université, M. Léon Lefort, revolver in hand, stemmed the advance of the incendiaries, and compelled them to retreat. Several of our confrires were among the most active in directing the extinction of fires already commenced. M. Amédée Latour, the well-known editor of the Union Medicale, has been placed in a deplorable position, having been closely shut up in his own country house at Chatillon, unable to leave it under peril of his life, and constantly exposed to the fire of the neighbouring forts and batteries.

With respect to the scientific and charitable establishments, we may notice a report made by the honoured veteran in science, M. Chevreul, to the Academy of Sciences, upon the "Muséum d'Histoire Naturelle," of which he is the director. He had great pleasure in stating that, although placed in the most imminent peril from fire, especially during May 26, it has undergone but trifling damages. He eulogises the valuable offorts made for the preservation of their several collections by the resident Professors Decaisne, Milne-Edwards, Delafosse, and Quatrefages; and advances the difficulties which the other Professors Blanchard, Deshayes, and Gervais had of getting access to the museum as a reason why all the professors should be resident. As director of the celebrated Gobelins tapestry manufacture, he has a more painful task to perform, inasmuch as this has been most seriously, if not irretrievably, damaged. Whole galleries and workshops have been destroyed, and, worst of all, the invaluable collection of tapestries from the time of Louis XIV, to the present day. It was to the courageous exertions of the cuployes and the inhabitants of the neighbourhood that the preservation of any portion of the establishment was due, "and if amidst such disasters I permit myself," says this veteran sacant, "to add a word of my own, my excuse will be in the feeling of gratitude which dictates it - and that is, that without such courage and zeal the Gobelins would have no longer existed, and with it would have disappeared the products of those researches in wool and its fatty matters (swint) to which I have devoted myself for now well-nigh half a century." M. Yvon Villarceau also reports that the portion of the Paris Observatoire devoted to astronomical geodesy has suffered much from the incendiary attempts, and that some of the valuable instruments have been so damaged that it will not be possible for French sarants to take part in the International Geodesic Congress to be held at Vienna in 1871.

The Sorbonne and the Ecole de Médecine are entirely uninjured; and of all the grost libraries of Paris, that of the Louvre is the only one that has suffered. This, however, which contained 100,000 volumes, many of them of great value and carity, is suterly destroyed. The Mazarin library, which was at one time stated to have been burned, has been preserved intact. A magnificent edifice forming an annexe to the Intoide Della, and employed in the administration of the Assistance Publique, has been entirely destroyed. None of the Hospitals have suffered otherwise than by reason of their propinquity to the various seenes of combat; but the Larboistère, St. Louis, Necker, and Pittle have sustained

much damage in this way. The Hôtel-Dieu may be said to have had a narrow escape, for it was mainly due to the exertions of M. Hanot and other internes, made at the risk of their lives, that the attempts at burning the adjoining Notre Dame were defeated. At the Luxembourg Palace, again, the ambnlance was the means of saving it from destruction. The agents of the Commune insisted that the ambulance should be evacuated, in order that the petroleum which they had brought might be ignited. M. Danet, who, with M. Brochin and other Medical men, was in charge, songht by every means to obtain delays, telling the incendiaries that their own wounded would unavoidably fall victims. They succeeded in staving off the danger, which grew every moment more imminent, until, at last, the marines of the Versailles force arriving, the rebels retreated. The palace suffered to some extent from the explosion of a powder depôt, which took place soon after; and one of its façades has been terribly mutilated by shell and ball. The apartments of M. Lucien Boyer, containing valuable furniture, were demolished by shells.

In the Gazette Heldomadaire for June 2, M. Linas gives a very graphic account of the terrible scenes which passed around his house in the Place Mudeleine during the dreadful days and nights of May 22, 23, 24, 25, and 26.

In an interesting paper on "Anesthetics," contributed by Dr. Squibb to the May number of the New York Amissed Journal, he, among various other matters, attempts some calculation as to the amount of chloroform employed, and the number of deaths caused by it, during 1870 in the United States. His statements, however, are as varge and conjectural as most of those have been which have been hazarded in this country. As to the quantity of chloroform produced, he is, however, a great authority, being binself a celebrated manufacturer of the article in a very pure state.

article in a very pure state.

"No chloroform," he says, "has been imported into this country, or exported from it, within several years past, and there are but about four original sources of supply, of which the establishment of the writer is the smallest. Upon consultation with the three other sources of supply, it is found that the total quantity of chloroform sold for consumption in the third States during the sources of supply, it is found that the total quantity of chloroform sold for consumption in the third States during the sources of the supply o

Then, as regards the number of deaths, Dr. Squibb can only find 17 deaths reported, or 1 in 11,764 administrations: but assuming that one-half of those occurring were not made public, we should have 34 deaths, or I death in 5882 administrations. "If any reader indiges this estimate to be still not sufficiently liberal, he may double the number of deaths once more, and he will then have I death in 2900 administrations, and thus get the mortality up to somewhere near that of Dr. Richardson for Great Britain. But the author cannot admit the probability of any such mortality for this country, though he knows of no good reason why it should be so much lower here." It is obvious that figures such as these are of no avail. Dr. Squibb, in common with all the other observers, testifies to the entire harmlessness of chloroform in obstetrical practice, a fact which he believes not so much to be due to its administration being pushed less far, as to the presence of some unknown condition in parturient women which confers immunity on them.

With respect to the great toleration of chloroform in certain individuals, Dr. Squibb mentions the case of a lady, 48 years of age, who for some years had employed it for the alleviation of the severe pain of hereditary gout. Between March 31 and

December 16 she was supplied with fifty-three pounds of purified obloroform, and during her acute attacks she not unfrequently used two pounds each day, " and used it as economically as she could after her long practice."

In a communication to the College of Physicians of Philadelphia (reported in the American Journal of the Medical Sciences for April), Dr. S. Weir Mitchell drew attention to the "growth of the nails as a prognostic indication in cerebral paralysis." In a case of paralysis Dr. Mitchell observed that the nails of the paralysed hand, which had been previously healthy, became marked with deep serrations, crossing from side to side, and about a line apart. The peculiarity continued as long as the case was under his care, the growth of the nails being much slower than that of the nails of the unaffected hand. He resolved in future cases to study the nail-growth attentively. In a patient 47 years of age, the subject of paralysis supervening on apoplexy, he stained four of the nails of the palsied hand a deep yellow with nitric acid down to the lower edge. To his surprise, while the nails of the other hand grew as usual, these did not grow at all during three weeks. "Then, and while the arm was throughout still motionless, the nails began to grow, as was shown by a narrow line of white below the tinted portions. Within a week after this, the fingers became controllable by the will, and gradually the whole hand and then the arm was restored." In another patient, aged 46suffering from paralysis of the arm, and aphasia, the nails of both hands were stained with the acid on the fourth day, Not the slightest growth took place on the palsied side for a fortnight, when, a white line being detected, the prediction was risked that, within a week, the limb would be moved, and this was realised more than completely. Apologising for bringing the circumstance before the Profession on the slight basis of only two cases, Dr. Mitchell observes that some time may clapse before he meets with others at a sufficiently early period of their process, while the attention of other persons may be advantageously called to the subject.

"I have been unable to find that this observation has been made before. In old cerebral palsies the nails very often become deformed, and even the muscles may undergo changes, which are possibly due to the neural selerotic alterations which sometimes come on after the part has been long disused. They are then the direct result of isolation from spinal trophic influence. In recent cerebral pulsies there is often wdems, but o muscular atrophy; and it is, therefore, remarkable that the nails should even suffer in their nutrition. It is still more curious, when we reflect that even in parts whose nerves are severed the nails grow as usual, and that chiefly in partial nerve-wounds do we meet with clubbing or serration. seems as if the injuries of the brain must have excited an inhibitory influence, and the fact aids, to my mind, the view which I hold with many, that there are nutritive nerves Theorists who follow Brown-Sequard would probably regard the checked growth as due to a spastic contraction of the vessels feeding the nail, and as a vaso-motor nerve impression. I cannot admit this, because no considerable amount of such spasm could last long enough, or be complete enough, to cause the result without making a visible difference in the tint of the nail and the thin parts at its matrix. These remained much as usual—perhaps even a little redder than common. To test this view, I faradised with a secondary current and of the this view, I intransed with a secondary current and dry wire-brank two of the nails daily, giving great pain and greatly flushing them. They were also kept, thrice a day, for half an hour in hot water, so as to flush them as much as possible. My patient, an intelligent person, being much possible. My patient, an intelligent person, some interested in the question, submitted readily to this treatment, interested in the question, submitted readily to this treatment, but no more growth took place in these nails than in the others. I have noted the low temperature in the last case, but in hands cut off from all nerve-connexion it is still lower, and yet the nails grow. It does look, therefore, in this case, as if ome influence was ut work here which did not act through a change in the vascular supplies. It is a point in favour of trophic nerves.

"Other and most interesting questions also present them-lves. The re-growth preceded the return of will-power. If this should prove constant or common, it will certainly help us to answer the inevitable query as to whether the arm will recover at all, and how soon. It is, of course, desirable to learn how often this cheek of nail-growth occurs -whether in all cerebral palsies or only in certain once-whether, in a word, it relates itself to particular brain regions, and is a direct effect, or arises from the spinal shock which these brain injuries occasion. I trust that I have been able to show, therefore, that this apparently trifling symptom may open the way to the solution of very important questions, and is certainly not devoid of interest for the most purely practical amongst us."

PARLIAMENTARY .- LUNACY REGULATION ACTS -- PHARMACY BILL --MEDICAL OFFICERS ATTACHED TO THE GERMAN AND FRENCH ARMIES-MEDICAL ACT AMENDMENT BILLS-PETITIONS-DEDATE WITHDRAWAL OF THE BILLS.

On Monday, June 12, in the House of Lords,

The Lord Chancellor presented a Bill for the amendment of the Lunacy Regulation Acts, and it was read a first time.

The Pharmacy Bill was read a second time.

In the Honse of Commons, In answer to Colonel Anson (Medical Officers attached to the German and French armies),
Mr. Cardwell said he was sure it must be evident that if our

Modical officers were to be received with kindness by foreign Governments, and they were to report to her Majesty's Government with freedom, it was absolutely necessary that their reports should be confidential.

On Tuesday, June 13, in the Honse of Commons,

Petitions against the Medical Act Amendment Bill were presented, by Mr. Weguelin, from Willenball; by Mr. Eaton, presented, by air. Vegatini, roll Williams, a via account from Coventry; by Mr. Hick, from Bolton; by Colouel Brieg, from Halstead; by Mr. Strutt, from Chesterfield; by Mr. W. E. Forster, from Great Herton; by Mr. Leathara, from Hyde; by Mr. Tarner, from Leigh and neighbourhood; by Captain Egerton, from Chesterfield; by Mr. Lea, from Kidderminster; and by Mr. Serjeant Simon, from Dewibury.

Petitions were also presented by Dr. Lush, from Islington Medical Society, In favour of Medical Act (1858) Amendment

On Wednesday, June 14.

Petitions against the Medical Act Amendment Bill were presented by Mr. Buckley, from Mossley; by Mr. Fielden, from Brigley; by Mr. Jacob Bright, from Manchester, with 5000 signatures; by Mr. D. Chadwick, from Macclesfield; by Mr. Hibbert, from Oldham, Lees, and Shaw; by Mr. Clay, from Hull; by Mr. Mundella, from Sheffield and neighbourood; by Mr. H. M. Feilden, from Blackburn; and by Mr. J. White, from Brighton.

Petitions were presented by Dr. Lush, from various Medical Practitioners in London and elsewhere, in favour of Medical

Act (1858) Amendment Bill.

Dr. Lush, in moving the second reading of this Bill, said the measure introduced by the right hon, gentleman (Mr. Forst r) last session was not satisfactory to 'the Profession, and, as the right hon, gentleman was deterred by the press of business from bringing forward any Bill this year, it only remained for a private member to make the attempt at legislation. Though he brought forward the present Bill in a Professional point of view, he wished it to be borne in mind that the interests of the Profession and the public were blended, and that what was good for one was good for the other. It was because little bad yet been effected by legislation towards Medical reform that he proposed the present Bill, the purpose of which was to abelish the Council of twenty-four members at present existing (which, being too numerous, was apt to degenerate into a debating society), and to establish a new Council in its place, consisting of twelve members. It was proposed that the present examining bodies, amounting to nineteen in number, should be asso-ciated together and collectively nominate four members; that the Crown should nominate four members, and that the whole body of the Profession should have the right to nominate the other four members. It was provided that, before any man should be entitled to practise, he should pass through one examination; and that examination should indicate the minimum standard of Professional education in this country. He believed that the standard of Medical education had been considerably raised of late years, but there was still great room for improvement, and he trusted the House would consent to give a second reading to the Bill he now proposed.

Mr. Jessel said that the present Bill differed in a most import ant respect from the Government Bill of last year, which did not propose to put in the hands of the Medical Council, however elected, the right to nominate the Board of Pxaminers, without

any security against an abuse of the power. The Bill, in fact, proposed a monopoly of examination, and all monopoly was objectionable; but if it were created, care should be taken to prevent it leading to a position of stagnation. The Bill defined in a positive manner what the examiners were to do, without having regard to the natural progress of science and we mount making regard to the nathran progress of science and learning, for an expansive and improvable system was not provided for by the Bill. The great defect of the present system was that no confidence was felt in a great many members of the Boards of Examiners. It had been a competition downwards, and there had been a race to diminish the qualifications required, in order to attract a large number of fee-paying persons to the examinations. The examiners must be made honest by preventing them from having a pecuniary interest in the result of the examinations. The cardinal point was to secure a fair examination for all, and to give security for progressive improvement in the Medical Profession. was not prepared to say that an infusion of elected councillors would not be desirable, but it would not be right to have the Examination Board and Controlling Board composed of the same class of persons. He trusted that the Bill would be modified, so as to satisfy the just expectations of the Profession.

Dr. Brewer supported the Bill, which, he thought, would effect the purposes desired by the hon, and learned member. Dr. Playfair observed that there were two questions with which the Medical Act Amendment Bills (No. 1 and No. 2) professed to deal—the constitution of the Medical Council, and the qualification of Medical Practitioners. As to the former, the real point to be ascertained was whether the Council should be a body for the premotion of the public interests, or for purely Professional objects. If it was intended to promote the interest of the public, the public should pay the cost, and there would be a lay as well as a Professional representation the public predominating over the Professional element. The second Bill recognised and left nearly alone the old corpora-The Amendment Bill (No. 1) extinguished them, which he thought was a great mistake. It was a disadvantage to have nineteen examining bodies having a tendency to compete with each other, and therefore giving the public a security for with each other, and therefore giving the public a security for only a minimum qualification; but it did not follow that they should be reduced to one, as was proposed by the Bill of his hon, friend the member for Salisbury. It would be much better that there should be an examining body for Eugland, another for Seotland, and a third for Ireland. This was a subject with which the Government only could fairly grapple; but these Bills would be useful as pointing out the paths of Medical reform which it was desirable they should follow. He hoped both Bills would be withdrawn, and that the Government would deal with the question next session.

Mr. W. E. Forster said there were two points for discussion-one as to the mode of examining and certifying Medical Practitioners, and the other as to the constitution of the Medical Practitioners, and the other as to me constitution to the control of Council. With regard to the first point, the Government entirely appreciated its great importance. They were aware of the very great practical evils that resulted from three being nineteen accredited bodies for certifying Medical Practitioners, but they had been unable to deal with the question this year. This led two private members to bring in Bills on the subject, but neither could hope to pass his Bill during the present session. From the number of questions pressing on the Government for legislation, he could not pledge them to bring in a Bill next year, but it was their wish and anxiety to do so. If they were unable to deal with the subject next year, and if any private member, such as his hon, friend the member for Salisbury, or any other, took up the sub-ject, no obstacle would be thrown in the way of the fullest consideration of it by the House; and if it was desirable the Bill might be referred to a committee upstairs. Legislation had failed last year because, although the Bill which had been introduced in the House of Lords had been most carefully considered, it had been thought desirable, when the Bill came down to that House, to add to the questions they were then attempting to settle the other question of the constitution of the Medical Council, and it was then too late in the session to deal with that subject.

After a few words from Dr. Brady, who stated that his own. Bill, the Mcdical Act (1888) Amendment (No. 2) Bill, had been carefully prepared, and gave great satisfaction to the Profession; and from Sir J. Gray, who congratulated the House on the disposition shown by the right hon, gentleman on the part of the Government to deal with the subject next session, both Bills were withdrawn, and the orders of the day relating to them discharged.

PROFESSOR ACLAND'S LECTURE ON NATIONAL HEALTH.

Phoresson Aciano delivered at the College of Physicians, on June 2, a lecture on National Health, which he has since reprinted in a separate form, with an Appendix containing the elaborate Memorandum on Medical Officers of Health issued by the Royal Sanitary Commission, and the scheme of education in State Medicine proposed by Trinity College, Dublin, and anthenticated by the initials "W.S." We may express in limite our gratification at seeing the Regims Professors of Medicine in our national universities coming forward and putting into practical shape the vague wishes and ideas of scattered workers, and assisting the Legislature to give effect to these ideas in the form of practical systems of education and workable Acts of Parliament.

Professor Achand begins by noticing Mr. Goschen's effort to introduce a comprehensive Bill dealing with the whole subject of public health, though political exigencies, and the fact that it involved the subject of local taxation, have compelled him to withdraw it for a time. It is to promote the growth of public properties of the public action of that which begins by affirming that there is such a thing as National—distinguished from personal—health.

"National habits, good or bad—national licence and national self-restraint—national vice and national picty—national vicour or national indedence—are propagated through the individuals of which the nation is composed; being attached to individual character, and hunded on from generation to generation, modified, however, by individual education, or those great catastrophes which, like subsoliing in a barren land, tring about fresh combinations, and give birth to products good or bad, better or worse, as the laws, moral and physical, which regulate the combination, and youngel.

"It may be alleged against these fundamental conceptions that national health is a fiction of the mind, that no such collective physical condition exists. The objection would be one of words. Family constitution and hereditary taint certainly exist; and a multitude of individuals forming one army may, by the operation of moral causes, go anywhere and do enything, or may be without power, without will, without hope.

"The autional health is that condition of the individuals of the nation which enables the individuals of the nation to discharge rightly their respective functions in the State—to do their day; in that state of life to which they are called; 'the statesman to be in training for exercising the complex intellectual operations of his high office; the artisan, the soldier, the abstract thinker, each for his; and if we regard the philosophic teaching of the great author of the "Republic," parents of either nex, for the ransing of the future citizens for the State," What are the antecedents which influence national health?

"Take any given Englishman. What is his descent—Roman, Norman, Saxon, Dane, French ? What influences have operated on him since his progenitors were among the number of workers in filint or in bone, or bronze? Did they become farmers, warriors, chiefs? Intellectually accustomed to command or to obey? physically to endure or to shrink? morally thrifty, contended, peaceful or turbulent, drunkards and dissolute? Were they in later falled they intermenty in close relationship, or seck far afield the partners of their lives? What would be the qualities which, like the now famous Black Bar of the Rock Pigeon, might reappear on their seutcheons? pride, pugmacity, spyllids, rout, phthisis? Turbile questions these which the thrid and fourth generations ask of the sias of their forefathers and of their own. There is much to be said equalitation, but he shock his stick at him with an oath and essid, 'Your drink brought gout down upon us all.'

"The view we take of the elements of national health is coloured by our conception of the respective relations of body and spirit. When we look abroad on the animal worth, we perceive such minor of mental and bodily functions, that we are at a loss to say whether the matter, of which the organism is composed, and by which alone the bundle of mental qualities which it possesses can operate in the world, is primarily set in motion by mind, or is luself the primum mobile, the busing and very seance of mind." Does it depend on natural or mental causes ?

"The soul of man is not the abject slave of mechanical organisation; in some way, which science cannot at present ascertain, it acts on, as well as is acted upon by, the physical structure through which alone it here exists, and the groundwork of sound national health lies as much in mental as in physical training and guidance. . . . The union of moral with intellectual and physical health (if, indeed, they can be separated), can alone save a people entered on the struggle of so-called civilisation. True, indeed, is it that without good sowers and healthy dwellings, the poor can neither labour well nor reasonably enjoy their being; but as true, that without a pure state of the moral sentiments, no material improvements will ensure to a people present happiness or permanent stability, Material comfort and insterial luxury are apt to engender, even in a noble race, meanness of soul, and woe and destruction wait on its fall. Physicians, therefore, in discussing the grounds of national health, must compass the whole bearings of this question.

They must study the laws of moral and physical being; especially those which bear on the relation of population to subsistence. They must instruct their fellow-citizens in the dangers of "unthriftiness in marriage, of limited area, of difficulty in emigration, and of working and trading for the world.

"The reality of our difficulty about population is told in a very few words-England and Wales are increasing by about 200,000 annually. This number will of course increase by a small increment. Since a.b. 1810 the population, which was 10,000,000, has become 22,000,000, and at the same rate will become by a.b. 1920 over 45,000,000. The acres in England and Wales are about 37,325,000, including waste ground. There are now, therefore, nearly two acres per man; there will be in fifty years not one.

In a second division of his lecture, Professor Acland treats of how the foundations of public health are sapped, and of the difficulty of tracing evils to their origin in an old and compli-cated state of society like ours. Old standing rights and

cated state of society like ours. Old standing rights and privileres need to be sifted.

"Take the single illustration of mills on streams. How long, after the effect of damp subsoil in injuring the health of the people has been proved, is it just to a population that one man should keep up mill-dams to such a height as to swell his profits by some small percentage and destroy his neighbour's health, when other arrangements might, with a little loss to him, at once abate the cvil! The human race and every civilised community is essentially progressive, and no society ought to shrink from dealing with rights which have produced consequences ossentially different from anything that could have been contemplated when they were allowed to

In the third part, he considers how those foundations may be attengthened. Strength must be had if there is to be stability. State after state exhibits the phenomen of pro-gress and decay. To hold our ground, it is necessary not only to know what to do, and what not to do, but to have a high standard of public opinion and general habits; and it is to be got by education—not a mere stereotyped, fixed, Chinese system, but expansive, comprehensive, and elevating. How much there is to be done before enlightened public opinion is embodied in law, may be seen by a few simple questions:—

"Is there yet a country which systematically punishes a man for wilfully or negligently poisoning another's food, air, and water, as well as for stealing his brushwood, turnips, or wild foul?

wild-fowl ?

Affirming that the modern crusade against the vice-ignorance, and mortality of our cities is not one whit less glorious than those attempts of old to deliver the Sepulchre of Christ from the hands of the Paynims, he speaks of two sets of measures-one of persuasion, the other of authority. Regarding persuasion he says -

"England must rule herself in this as in all other matters. The time is gone when people can be dragooned into eleanliness and virtue. We hear that the middle class of England is inefficient, the guardians of the poor bad, and the workinginemeent, the guaruams of the poor bad, and the working-classes ignorant. If so, still they are the people; they and their children pay the penalty of disease and of vice. Show them, truly and without exaggeration, the source of avoidable disease and of destructive vice—they will abate it. Bring the knowledge to their doors—they have heart and will; give the power by enactment, and the work is done.

For the executive, we want a central health department in the metropolis, which shall make use of the already existing and universally pervading machinery of the Poor-law.

"Invest the guardians of rural districts with adequate power, give them the requisite knowledge, appoint persons to the office with special qualifications, and trust them, on behalf of the people, to do all that can be done for maintaining the national health in their district. Keep the Medical officers informed of all established knowledge bearing on health functions; give them in the eyes of their fellow-men an honourable office; and a scientific and trained staff is at cace to your hand in every corner of the nation,

We are well aware that some very earnest sanitary philosophers are discontented with the scheme of the Royal Sanitary Commission. Let us concede all that can be said against it, and yet it remains that it has the merits of simplicity; of least disturbance of existing offices and interests; of harmonising materials and functionaries which now work independently and at cross-purposes; and of being economical and feasible-Anyhow, sanitary laws cannot step fully developed like Minerva from her father's head. The task of simplification is a laborious and thankless one; and we are grateful to men, like Dr. Acland, whose sense of public duty impels them to do good work towards the future welfare of England.

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the undermentioned Districts.

					No	o. of (Cases	week e	nding	
Distric	te.			May 6.	May 13.	May 20.	May 27.	June 3.	June 10.	June 10. Sent to Hospital,
West-	-		_							
Chelsen .				4	16	7	12	9	?	_
St. George, H. St. James, W.	anove	er-sq.		14	11	9	15	17	21	16
St. James, W.	estmi	nster		8	8	4	. 3	8	1	1
Paddington North-		٠	٠	20	24	15		1 8	1 2	-
St. Pancras				104	101	117	116	1113	77	- 1
Islington .				64	59	42	50	36	52	32
Hackney .			٠	1	18	28	17	25	. ?	-
CENTRAL-					1		1 -			
City of Londo	n		٠	6	13	11	8	17	10	1
St. Giles-in-t	he - F	ields	٠	5	5	9	P	1 2	1 2	-
Holborn .			٠	5	13	10	5	8	6	G
St. Luke's East-			٠	12	13	17	12	13	13	11
Whitechapel				7	4	23	13	5	18	1 ?
Poplar . South-				9	1	11	14	1	1	-
St. Mary, New	ingt	on		28	28	29	30	35	36	23
St. Olave, Sot	thw	rk	ľ	3	2	2	5	5	2	1
St. George -1			r.		_	_	1	1	1	
Southwark				P	28	9	2	9	9	-
Lambeth .				20	P	26	24	22	23	29
Clapham .		:		29	13	16	6	14	11	9
Wandsworth		:	:	4	4	1	5	6	2	1
Streatham		:	i		9	2	2	P	3	1 1
Lewisham		:	1		9	9	9	6	1	-
Camberwell	:	:	1			45	9	1 8	41	13
Greenwich	:	:	•	9	1 2	12	9	2	1	1
Plumstead	:	:	:	. 5	6	6	5	4	6	1

THE yellow fever was declining at Buenos Ayres on the 16th ult., and the death-rate diminishing at the rate of twenty per day. Business had been resumed.

THE Bill to amend the law relating to the registration THE BHI to amend the law reinting to the registration of births in England, just brought in by Dr. Lyon Playfair and others, will make giving notice of births compulsory. It is to come into operation on January 1, 1872. Notice must be given, after the passing of this Act, of the birth of every child within forty-two days, under a penalty not exceeding £5. In cases of suspicion of concealment the registrar may obtain an order to inquire from any two justices, and there is a penalty, not exceeding £5, on any person whom the registrar is thereby entitled to question, who shall answer untruly. the field to "history."

DARWINISM AND POLITICS. By Dr. F. A. HARTSEN.

Nor only by sociologists, but also by politicians, has the doctrine of struggle and selection been abused. We are sorry to say it, but some preachers of the theory "Might (brutal force) is above right" have sought shelter against their antagonists

under the wings of Darwinism. under the wings of Darwinson.

A short time ago, a Professor of Zoology at an important
university published a pamphlet upon "Darwinism and the
Franco-Prussian Struggle." In this he expresses himself thus
—"When we see that lower races are exterminated by higher races, it may be asked: what right have the stronger races to exterminate the waker? The question is a uscless one. Might is above right. This is so, and it cannot be helped."

We see, then, that not superficial ininds only, but men of talent and influence propagate such error, and, consequently,

the matter deserves inquiry. In the first place, we strongly maintain that "Darwinism," however meritorious, is entirely unfit to serve as basis for a

moral or religious code. "Darwinism" treats of accomplished facts. Now, every act, good or bad, when performed is an accomplished fact. Thus, the fact of a thing having been committed is, in itself, no measure of its moral signification. But, admitted that it were a moral code, what is its teaching? Darwinism teaches us that the aspect of the organic world on earth has been due to the struggle for life between stronger and weaker beings. This may be true. But this is not all. Two circumstances here are not to be overlooked—I. It is not necessary that the principle which governed the earth at its beginning should also govern it for ever. Under more complicated circumstances, new laws and rules may come into play. 2. Darwinism teaches us what has been in "prehistoric" times. From the age of well-formed

Now, admitting that the life of the past is a moral code-Now, admitting that the life of the past is a moral code— that we have nothing to do but to imitate the acts of our fathers—would it then follow that we ought to act in politics apon the principle that "light's abover right"? By no means. Even among the lower animals Darwinism teaches already that "struggle" is not the only constituent principle of the organic world, but that struggle has been guided and limited

language, Darwinism retreats to the background, and leaves

by love, protection, gratitude—in short, by moral principles.

But here our investigation is far from terminated. There is no reason why we should derive our morals from the actions of lower animals alone, and take no account of what has been done by our human ancestors. In fact, that period of the past, generally known as the "historical time," and nnjnstly severed from the field of natural history, ought to be taken account of. For in history, which is just as much a part of natural science For in fistory, which is just as much a part of necessar science as geology, we find the principles of love, protection, gratitude, etc., still more powerful. Here the moral principles, far from gradually dying out, gain so much in activity that we may fairly ask if "struggle for life" can be said to be the trae

expression of the ruling principle of the world.

This much is certain, that we should be much mistaken if we This much is certain, that we should do much mistaken it we considered the drama of history san 'struggle for ite' between men in the same manner as anch a struggle is exhibited by the lower animals. Nay, even the most sophistical Darwinist will not go so far as to draw from his master's ingenious books an apology for brutal murder.

But the matter changes as soon as there is question, not of the relation between individuals, but of that between nations. So far as nations are concerned, many Darwinists tell us a struggle for life certainly does exist, has always existed, and must always exist. In short, according to them, struggle for

life between nations is the normal state of things in politics.

Here, again, we must observe that the past of mankind cannot be depicted as a struggle for life among nations in the same sense as the past of the lower animal species.

A struggle for life, in the real sense of the word, supposes

that the stronger party destroys the weaker as soon as possible, and by all means.

Now, this is by no means what has taken place in history between nations. Very few wars have ended in the entire destruction of the beaten nation. Instead of a struggle for life, many a war has been a struggle for principles of another

(I/c, many a war nas ocen a sarugger so principles of accuming third—viz., honour, justice, etc.

This constitutes aiready a great difference between political struggles and the "struggle for life" in the lower animals. But there is something besides. Who has ever heard of diplomatio

relations and parliamentary discussions between the wolf and his prey? Who has ever known of a society of fishes and gulls for the "aid of the sick and wounded" in the struggle for life?

for life; it is evident that, in spite of much selfish ambition in politics, principles of humanity and good relations between nations are gaining ground. Frogress, in this respect, is a fact quite as undersible as the facts of geology. From all this, we conclude that they who wish to defend the theory that: "Might is right," will seek in wain for arms in the

dominion of Darwinism.

As to the extermination of lower races, against this we energetically protest. It is said that those races are uncivilised, energetically protest. It is said that those recessive unconsents, useless. This may be. But, with all that, they can scarcely be less civilised than the idiots for whom we build splendid asylums, and whom we try to improve. If it be right to exterminate uncivilised people, why do we not begin with our own idiots?

GENERAL CORRESPONDENCE.

DR. STALLARD AND DR. GIBBON. LETTER FROM DR. J. H. STALLARD.

[To the Editor of the Medical Times and Gazette.] Srn,-I am not in the habit of criticising the Professional opinion given by a brother Physician before a non-Professional andience. The fact in the case referred to is, that Dr. Gibbon was never required to give any Professional opinion whatever, Dr. Norton having already certified that the child required immediate removal to Hospital.

The just complaint of the Guardians is that the Board of Works, of which Dr. Gibbon is the officer, have not taken proper steps for the prompt removal of patients to Hospital; have not properly and promptly disinfected the houses in which nave not properly and promptly distincted in nonzess in which small-pox has occurred; have not provided a proper disinfecting apparatus; have nothing but a costermonger's truck on which to carry infected bedding; and have not reduced over-crowding in illegally-occupied cellars, even in the face of small-pox.

I am, &c., J. H. STALLARD, M.B. Lond., M.R.C.P., etc.

LETTER FROM DR. SEPTIMUS GIRBON.

[To the Editor of the Medical Times and Guartte.] Sir.—As I have always endeavoured to carry out my duties as Medical Officer of Health to the best of my ability, I care nothing for the gratuitous criticisms of Dr. Stallard in his capacity of Poor-law guardian. He would do well, as the local journal observes, if his declamation was a little more delicately tempered in expression, because the "hammer-and-tougs" style is rather a feeble mode of enforcing the Professional

opinion he holds in opposition to mine.

I do, however, hold that his interference in going to the police-court with Mr. Birch, the relieving officer, and getting a magistrate's order to removo a small-pox case-without a magistrate's order to remove a small-pox case—without informing cither myself or the parents of the child—was most piled with until a week after it was obtained, and until the child was in aft state to be are the journey, the child died in fixed after the parents of the child was in aft state to be are the journey, the child died af see days after entering the Hospital. There was, in my opinion, no anitary reason for the removal of this child, it being permoval of this child, it being permoval of the presence of the pr

There further to complain of this gentleman showing his little brief authority by inducing the Board of Guardians to upset the local arrangements for carrying out the Vaccination Act, 1867. Early in 1868 the then Board of Guardians asked me to continue to enforce vaccination by accepting the newly-created post of Vaccination Officer. I did so, and, with the assistance of three very skilful and careful public vaccinators, I flatter myself that the Vaccination Act of 1867 was carried out as well, if not better, in the Holborn District than in any other portion of the metropolis.

Last midsummer, in accordance, I believe, with a recommendation of the Privy Council, Dr. Stallard moved the dismissal of tion of the Frivy councit, Dr. Stainful moved the dismission of the three public variantors, and this year, in as ungracious a manner as I ever witnessed, he moved the Board of Guardians to call upon me to resign my post as Vaccination Officer. This, at the request of most of the Practitioners of the district I declined to do, and then he more some moved the Board to dismiss me from the office, which I am assured that I discharged to the satisfaction of my Professional brethren and I am, &c., the public at large.

June 14. SEPTIMUS GIBBON.

. The narrative of this little occurrence shows how necessary it is that the "destitution" and "sanitary" authorities should be identical. We may add that every Medical man who sits on a board should exercise the utmost delicacy in his relations with a brother-Practitioner who may happen for the time to be serving under him .- ED.

SUPERFINE VACCINATION. LETTER FROM MR. JOHN SMITH.

[To the Editor of the Medical Times and Gazette.] Sts.—It is really too bad that men holding the important and responsible public position of Mr. R. Ellis should fill the columns of the almighty Times with letters which must tend to columns of the similarly Tomes with letters which must tend to bring his less fortunate Professional brethren into disrepute. Mr. Ellis has invented a new method of vaccinating. He first of all makes one or two little vesicles with cantharides, then next day applies his vaccine to the surface thus denuded of cuticle. His method, he tells us, never fails; but it is only men of genius who never fail, and this one can't be at will; moreover, other men say the same of their own schemes. But he clearly intimates that anyone who does not do as he does is guilty of ignorance, neglect, or earclessness, and of being an accomplice in the spread of small-pox.

Now, I might argue, on the other side, that if the object be to denude the enticle, that may be done easily in a second with the point of the lancet. I might, also, argue that men who paid small fees could not find the time for two operations; for I need hardly say that the vesicant, to be applied discreetly, should be done by a Medical hand, and, as a matter of course, the like of myself do not receive the extra guinea or two which would be the reward of Mr. Ellis for his extraordinary skill and humanity. But what I would respectfully bring under the notice of Mr. Ellis, and personages moving in the same elevated sphere, is this. There is a large number of persons in this town and elsewhere who live from hand to mouth, who are toiling and moiling from morning to night with their families and work, and whom it is next to impossible now to get to come twice for the vaccination and inspection. How, then, shall we get them to come thrice, if we add one 110w, treen, small we get them to come thrice, it we had one wisit for the preliminary veiestion? Would that Mr. Ellis had to look up an Irish "widdy," who, when upbraided with not coming on the eighth day, replied that, she would not give up a day's "choring," and "let her childher's bellie go empty for all the Doctors this side of—"a place which Pope's soft Dean would not mention to ears polite.

I am, &c., John Smith, m.n.c.o., Public Vaccinator to District No. 7. JOHN SMITH, M.R.C.S.,

St. Giles's, June 13.

REPORTS OF SOCIETIES.

CLINICAL SOCIETY OF LONDON. FRIDAY, MAY 26, 1871.

Dr. W. W. GULL, President, in the Chair.

Dr. Meadows related a case of Acute Disease of the Hig joint following the introduction of a tangle tent into the uterus. The patient was 31 years of age, married ten years, sterile, and suffering from dysmenorrhosa. For this the cervix uteri was dilated with tangle tents, and after several had been applied she was seized with severe pain in the left hip-joint, and she then came under Dr. Meadows's eare for some supposed pelvic inflammation. It turned out, however, to be a case of acute inflammation of the hip-joint, which rapidly sup-purated, and ended in the course of a few weeks in destruction purated, and ended in the course of a few weeks in destruction of the joint and the death of the patient. On post-mortem examination, no cellulities or inflammation of any kind was discoverable about the uterus or its appendages, but an coormous absess had completely destroyed the hip-joint and parts adjacent. There was no indication whatever of any insichle having been done to the uterus itself.

Mr. Cooren Forsten took exception to the explanation of the inflammation. It was said to be tubercular, but he had seen cases where a slight abrasion on any part of the body, but specially on the os uteri, had been followed by great mischief. He rather thought it arose from pyæmie poisoning. Nothing else would explain the rapid destruction of cartilage.

Dr. Buzzand asked a question as to the nature of the double os uteri, and also whether other joints were examined.

Mr. George Lawson said that, after passing a tangle tent, the part beyond the stricture swells, so that it requires great force to withdraw it. In this way the abrasion might be accounted for.

counted for.

Mr. Hawan also thought the mischief pyaemie. He was of opinion that tubercular affections were rather rare in joints, and quoted spatisties to show this. The temperature militated against the idea of pyaemia in this case.

Mr. Bardenkul CARTER put query as to the necessity of any abrasion going before pyremia. Mr. Prescott Howett had told the properties of the properties of

Mr. Lawson Tair had used tangle tents, but a fatal case

occurred, and he gave them over. In that instance the tent had apparently pierced the walls of the uterus, and given rise to peritonitis.
The President thought Mr. Carter's remark important. He

remembered a case of suppuration of the veins of the spinal cord after gonorrhoa. In puerperal fever it was generally the veins of the on which were most affected.

Dr. Meadows replied that he did not pronounce the disease tubercular; that no other joints than the hip were examined. He took exception to the statements relative to the danger of taugle tents. It was true they might be dangerous if allowed to go too far in.

Mr. Holthouse read a paper showing the good effects of Opium in Strangulated Hernia. He narrated several cases where opium had been given and relief obtained without the necessity of operation.

Mr. Coofer Forster protested against the use of opium as compared with the knife. He thought that the rule was absolutely proved—If a hernia is strangulated and cannot be reduced, operate. He considered sickness the most important test of strangulation. Delay was to be avoided by all means, and the knife was the true remedy. The operation was

perfectly safe. Mr. Lawson Tair narrated a case where he injected morphia subcutaneously while waiting for his instruments. When they came and chloroform was administered, the taxis sufficed. He thought the knife safe with the subcutaneous operation.

Dr. Anstie read a remarkable case of Neuralgia in all the three branches of the Fifth Nerve, reindneed, in a person who had suffered from it before, by the intercurrence of constitu-tional syphilis. The complications were remarkable: there was complete anæsthesia of the affected side of the face, exactly reaching the mesial line, complete paralysis of the third and sixth nerves, loss of taste in the neuralgic half of the tongue, loss of smell on both sides, and spasms of the masseter muscle. The neuralgia and the anæsthesia were rapidly cured by large doses of iodide of potassium, and, singular to say, not only the function of taste, but also that of smell, recovered carelly pari pease with the receive of the fifth nerve. The ocular paralyses remain at present maffected. The spasm of the masseter disappeared simultaneously with the neuralgia and anesthesia. The woman, who was married, and had three very healthy children, and never aborted, was probably only syphilised about one year ago, and many years after the first, attacks of neuralgia, which partook of the character of migraine.

Dr. HUGHLINGS-JACKSON remarked on the great interest of Dr. Anstie's observations on the occasional coincidence of facial neuralgia with partial amesthesia of the painful organ. He (Dr. Jackson) supposed persistent, although partial, loss of feeling must depend on destruction of nerve fibres and neuralgia, especially if it was paroxysmal on discharges of ganglion cells connected with intact fibres. An analogous fact was the not unfrequent occurrence of convulsion of muscles which are imperfectly paralysed. Dr. Jackson asked as to the condition of the masseter and temporal muscles. He suggested that the loss of smell might depend on an olfactory neuritis analogous to optic neuritis, and, as bearing ou this, asked if an ophthalmoscopical examination had been made. It was certain that severe optic neuritis might exist when sight was unaffected. In some cases of cerebral disease there was loss of smell, with amaurosis from optic neuritis.

Mr. George Lawson said it was rare to find paralysis following so soon on syphilis. That usually came years after, as did the worst affections of the tongue.

Dr. Buzzard remarked on the loss of smell on both sides.

whilst the fifth was affected on one side only. Might there not have been an additional paralysis of the olfactories.

Mr. B. CARTER hoped to be able to clear up the ease later. Mr. B. CARTER noped to be able to clear up the ease later. The patient came for the ptosis, which was complete. He was sorry there had been no ophthalmoscopic observation made. The eyes were evenly balanced, although only the superior oblique muscles were left intact.

superior coinque museies were lett intact.

Mr. Cooren Fossirs, hoped they would not add this case to
the many crils already attributed to syphilis, for it was quite
impossible it should be syphilitic from the time it came on.
Had it resulted from a node, the patient would have got quite

well with iodide of potassium.

Dr. Anstie thought there was time for the syphilis to develope Dr. ANTIR thought there was time for the spinlis to develope theel. He was really disappointed when the spinlis appeared. Dr. Rivournes-Jacroov gave particulars of a case of Right Theorem and the spinling of the spinling of the spinling of the which had been investigated by himself and Mr. Stephen Mackenzie. The hemiplegia, with the affection of speech, pointed to some kind of disease of, and of the convolution near to, the corpus striatum. From the manner of onset, and from other eigenmatances, he intered that there was softening from other eircumstances, he inferred that there was softening from thrombosis; and as the patient presented well-marked external signs of sphilis, he supposed the softening depended on thrombosis of an artery which was diseased from sphilis. He did not speak of attreums (endastestis), which was believed by some to be an occasional result of sphilis, but of what may be called notles of arteries (guunnatoms affections). He alluded to the observations of firstework (Pathological He alluded to the observations of Bristowe (Pathological Society's Temperations, 1839) on thrombosis of cerebral rateries from syphilis, and those of Wilks (Guy's Hospital Reports, 1863) and Moxon (bid.), 1867-5; on cases of sphillite disease of cerebral arteries, and referred to several cases published by himsel (the Lenet. 1864, and London Hospital Reports, vol. iv). He urged the great importance of recognising that many's syphilitic affections' of the nervous system are really many "syphilite ancettons of the nervon system are reany dependent, but very indirectly, on syphilitic changes, and especially that in some cases of "syphilitic hemiplegis" the pathological condition of the nervo-centre on which the pairy directly depends is like that produced by embolism. We quickly cure recent palsies of cranial nerves from the

unsuccessful. The President remembered the ease referred to. He considered that Dr. Jackson's remarks went against the views of Mr. Cooper Forster. Iodide of potassium would cure the syphilitic deposit, but not its effects on the surrounding tissues. Mr. B. CARTER recalled a case he had seen with Dr. Hughlings-Jackson. Many results followed syphilis, which iodide lings-Jackson. Many results tollowed sypelins, which collectered, but at last hemiplegia set in. Twelve months after this he had seen the patient again, still hemiplegic; it was too late for the iodide. This had been given in large amount, with no

direct action of syphilis on the nerve-bundles, but to cure certain cases of syphilitie hemiplegia we have to do more than to treat syphilis, and our treatment of these cases is often

Mr. Lawson Tair referred to a case he had seen where cere-bral symptoms were followed by hemiplegia from a gummy tumour in one of the cerebral vessels.

Mr. Cooren Fonster explained that he only held to the value of iodide of potassinm in the early stage of tertiary syphilis; not in the effects of the tumour on surrounding parts.

Dr. Anstre pointed out that in his case the fodide had re-

moved the neuralgia. Mr. CALLENDER narrated and exemplified a new mode of dealing with long-standing dislocations of the shoulder, after which the Society adjourned for the season.

LEGAL INTELLIGENCE.

CENTRAL CRIMINAL COURT .- JUNE 8. (Before Mr. Justice Byles.)

A most extraordinary charge of attempting to procure a noxious thing with the intent to cause the miscarriage of one Margaret Jane Southcy was made against Walter and James Tregellas,

Jane Southey was made against Watter and James Tregellas, the uncles of the young woman in question. Even the evidence of Mr. Benjamin Duke, Surgeon, of 272, Kennington-park-road, it appeared that, on April 5, James Tregellas celled upon him, and asked for some medicine to cause a child to be born dead. Witness declined to supply any, but, having made an appointment, James called again on the same day; Mr. Duke, in the meantime, secreted a constable in a skeleton-case. James Tregelias said he wanted a pill or a powder to kill the child by degrees. At ten, James and Walter called together, and asked Mr. Duke to name his price. He named £5, which was paid. Mr. Duke then gave them a bottle of harmless liquid—a mild tonic.

On the 20th, Walter called again, and stated the medicine On the 20th, Walter called again, and stated the medicine had had not effect. After some correspondence, it was agreed that Mr. Duke should see the woman at their office on Satur-day, May 7, whither he proceeded, accompanied by a detective, whom he represented as a Medical student. He saw the woman, who stated that she was pregnant, and he gave her a bottle of harmless medicine. He had, on the 3rd, been promised another 26 if he would make it all right. In his cross-examination, Mr. Duke said he had been acting throughout under the direction of the detectives. His evidence was corroborated by the detective concealed in the skeleton-case.

The learned judge, in summing-up, observed that great zeal was exhibited to bring this crime home to the parties, but he doubted whether such zeal was proper when the course taken the Medical man of being actuated by improper motives, but I doubt whether in this case the proper limits have been

I doubt whether in this case the proper limits have been observed which a prosecutor onghit to keep in view. The two prisoners received a high character, and, in committee the prisoners received a high character, and, driven them from his door, he would have done bits duty. He did not say that the Poetor was guilty of treachers, but he did say that the artifice that was used to draw these persons into crime, though not likely, was subject to severe observation. There was not sufficient evidence that they intended to procure something noxious, but still there remained the question that something noxious, but still there remained the question that they did unlawfully and wickedly complies and agree together to precure the miscarriage. The prisoners did not appear to have had any selfish motive, but had acted generously and

affectionately towards the young girl.

The jury found both the defendants "Not Guilty." The

foreman added that they wished to censure the manner in which the prosecution had been brought forward.

SMALL-POX.

On Monday last, Dr. Aldis, Officer of Health of St. George's, Hanover-square, applied to Mr. Woolrych, at the Westminster Hanorer-square, applied to Mr. Woodrych, at the Westminster Police-court, Folice-court, for a summons against a milkwoman in Belgravia for exposing hewself during the time that she had the small-pox. She had sold milk in ther shop all the time that she and others of her family had the disease. The magnitute seid the Act only applied to exposure out of doors, and he should not therefore issue the summons.—At the Southwark Police-court, Mr. Jonathan Newson and his wife over charged with exposing their servant, who was ill with small-pox, in the public streets. The girl, upon being attacked with the disease, company and the street of the public streets, and the should be successful to the street of the street so, but had to beg the assistance of a neighbour to assist her in walking. This neighbour brought her before a magistrate for his advice. Eventually, the girl was taken to the work-house. Mr. Benson fined the female defendant £5, but disnouse. Mr. Bethon finod the reinate defendant \$0, but dis-charged the husband.——At Clerkonwell, Michael Turner was charged with conveying his daughters, then suffering from small-pox, in a public vehicle. The defendant had hired a cab, and taken away the two girls from his residence in Roman-road to the New Cattle Market, where they were transferred to an ambulance. Mr. Cooke fined him 40s., and costs.

OBITUARY.

JAMES JONES, M.D. Lond., M.R.C.P.

WE regret to record the death of this excellent Physician and We regret to record the death of this executed it has eath and estimable man, which took place at his residence, 4, Harley-street, on the 6th of the present month. Dr. Jones was a native of the north of Ireland. On completing his Medical curriculum be determined to settle in England, and for a short time assisted the late Mr. Hunter, of Islington, in carrying on his very extensive practice. He afterwards commenced practice in the neighbour-hood of Brunswick-square, as a general Practitioner, and rapidly made a considerable business. It was during the leisure snatched from the hard work of general practice that Dr. Jones accomplished the feat of preparing for graduation and obtaining the degree of M.D. at the University of London, and obtaining the degree of M.D. at the University of London, and obtaining by examination the Fellowship of the Koyal College of Surgeons of England. He afterwards removed into a better situa-tion, and began practice as a Physician. He became Phy-sician to the Metropolitan Free Hospital and to the Margravisticet Infirmaty for Consumption. Dr. Jones was the author of a little book on philosis, in which the value of treatment by iron in small doses, continued for a long period, in that disease, sinsisted on. Headocontributed papers of practical value and interest to this and other Medical journals. His Medical skill and equirements, and his genial, kindly character, were elements well calculated to obtain the public appreciation; qualifications, together with such minuted his exerction, these qualifications, together with such minuted his exerction, the professional success. For some months before his death, his health had been visibly declining. He had one or two severe attacks of picurity, from which he only partially recovered, but he still struggled on, and even a few days before his death he was found at his post at the Margaret-streat Infirmary. Dr. and a kindly gentleman, and his comparatively early death will be deeply repretated by those who knew hill be deeply repretated by those who knew hill be even by the form the still the contraction of the con

PRESTWOOD LUCAS, M.D., M.R.C.P. Lond., OF BRECON.

Dn. Passwood Lucas, the cliest son of the late Henry Lucas, M.D., off Brecon, was born in the town of Camarthen in the year 1801. Dr. Henry, the father, a member of the old family of Lucas, of Stouthall, in Gower, Glamorganshire, practised for upwards of twenty years as a Physician in Brecon. He was Physician to the Brecon Infirmary, Mayor of Brecon in 1839, and died

Diff. On the community, any and the community and the community of the com

Physician and a high-principled gentleman."
On leaving the Royal Artillery, Dr. Lucas went to Swansea, and was elected in May, 1839, Physician to the Swansea Instrumy. But the following year, in consequence of the illness of his father, he determined to settle in Brecon, and, his father dying soon after, he succeeded him as Physician to the Breck-dying soon after, he succeeded him as Physician to the Breck-dying soon after, he succeeded him as Physician to the Breck-dying soon after he succeeded him as Physician in the Swansea of the Ward of the Swansea of Carlos of Christia College, Brechnock, and a Deputy-Licetteant, but though in the countries of the peace for the country he never acted. He was the local secretary of the

Syderham Society. Well qualified, as he was, "by general scholarship and by extensive Professional knowledge for authorship, he wrote but little. In the April number of the Madiso-Chirusgrial Retries for 1834 he published an interesting review of M. Piorry's work on Mediate Percussion, and there advocated, under certain conditions, notwithstanding M. Piorry's ingenious contrivances to adapt his pleximeter to unequal surfaces, the use of the hand, "as being far the better instrument." In October, 1864, Brecon was visted by a severe outbreak of cholera, and the land of the best of the control of the c

For a year past he had gradually declined in health, and became perceptibly thinner and weaker. He went

to Weymouth last autumn, hoping to get some busefit from the change of air, and better he returned home control of the control

Dr. Lucia practised parely as a Physician, and was the recognised head of his Profession in the country of Brecknock, and in request as a consultant in many of the neighbouring towns. He had travelled nucle, and when in the Royal Artillery stent a good deal of his time in Malta, Gibraltar, and the Mediterranean coast. Previously conversant with French, but the contract of the con

His funeral took place on Monday, June 5, and was accompanied to the Brecon Cemetery by the Mayor and Corporation, the magistrates, tradesmes, and inhabitants generally of the town. Throughout the whole of the route, shope were closed, blinds drawn, and every possible thing done to show the sense fel by the inhabitants of the public and private loss they had

Dr. Lucas had no children. He has bequeathed to the Brecon Infirmary all his Professional and scientific books, together with suitable cases for them. By his desire, they will be lodged in the room of the inetitution in which for thirty years he almost daily ast and prescribed for the out-patients. And Irrelational interest—vits. Lagance's own sethoscope or "cylinder," which was given to Dr. Lucas, while a student in Paris, by Laennec himself.

DR. ENGLAND, OF IPSWICH.

Tax death of this gendleman occurred somewhat saddenly, on the lat inet, at Lowestoft, where he was staying for the benefit of his health. Dr. England was born on April 16, 1789, at Sandringham, Norfolk, and commenced his Medical career as an apprentice to the late John Joy, Esq., of Massingham, in the same county, and in 1824 entered as a pupil at the Medical School of Guy's and St. Thomas's Hospitals. Having passed the same of the Hotel-Dieu, and lectures at the Surbonne. On his return to England, still feeling desirons of prosecuting plas anatomical studies, he visited Dublin, and entered at the Richmond Hospital School of Medicine. From Dublin he proceeded to Edinburgh, where in the autumn of 1828 he matriculated at that University, and in the following year had the degree of M.D. conferred upon him, selecting for the way to the practice as a Physician in Norwich, and took a very active part in the anniary measures that were adopted during the fearful epidemic of chelera which occurred in that city in 1822. In the beginning of 1836 Dr. England left Norwich, and went to

late Dr. Fraser, he practised until 1855, when he retired from the Profession, and took up his residence in Ipswich. Dr. England was very fond of, and well read in, the literature of Engiand was very fond or, and well read in, the interactive of his Profession, and contributed several papers of a practical character to the various Medical periodicals of the day. He was a Fellow of the Royal Medico-Chirurgical Society, and a Member of the Royal Medical Society of Edinburgh.

MR. S. MURCHISON, OF BICESTER,

Was in his oth year at the time of his death. He was born his India. His statement in the property of the his other the value derived from the instruction under such a master, he tne vause derived from the instruction under such a master, he over spoke with feelings of respect and affectionate remembrance. He passed the College of Surgeons in 1834, and the Society of Apothecaries in 1833, and began his Professional curver at Bath, where he captured in general and feasily practice. After some years he removed to London, and joined as a partner in a practice, which he did not find adoptether smitted to his value of the contract of the Chirurgical Society he attended the meetings of the Society, but without taking part in the discussions or contributing any paper to the *Transactions*. Soon after his marriage he left London and settled at Bicester, in Oxfordshire. Upon the Acmini and writer as interester, in Oxfortashire, Upon the first occasion of a wanney he was appointed Medical Officer of the Union Workhouse, with a large district of parishes. The duties of such an office, added to the laborious work of an extensive private practice, told upon a constitution by no means strong. Though he was seldom disabled by lilmes, his intimate friends observed that his strength was far from being equal to the demands made upon it, and he was told of their fears that there was degeneration of the muscular substance of the heart. At the beginning of the present year he had agreed on terms of partnership with Mr. Drinkwater, but before these had come into full operation he sank, after four days' illness, under the exhaustion attending on an acute inflammatory affection of the fauces and larynx. As a Practitioner he was careful and painstaking, judicious in treatment, and, as a consequence, successful. Honourable and straightforward in all his conduct, he gained the respect of his Professional brethren. A gentleman by habit and education, he was one of the men who can ill be spared from the ranks of the Profession.

GEORGE MALLETT, F.R.C.S.,

DIEM, after Morpillanes, on the 6th inst., he who the year of the are, at a long illness, on the 6th inst., he was articled to the late John Moore, Eq., Bolton, and finished his Professional studies at \$18. Bartholomew is Hospital. He was, from 1825 to 1831, House-Surgeon to the Bolton Dispensary, and so discharged the duties of that office as to receive, on his and so discharged the duties of that time as to receive, on his resignation, a gratuity and warm vote of thanks from the committee. From that period, antil disabled by his last illness, he was actively engaged in an extensive and a lucrative practice. From 1840 to 1861 he was one of the Honorary Medical Officers Fruits 1 of many on an about of the monomary sections of the consistency and a speciated Consulting Surgeon. A thorough knowledge of his Profession, a clear, sound judgment, and conduct strictly honorarbie, secured to him the confidence of the public and the Profession, causing him to be frequently consulted by his brethren, not only in the town, but in a wide circle around it. A warm and faithful friend, his loss is keenly felt and deeply deplored by his numerous friends, and to a great extent by the community among whom he so long and so usefully laboured.

OLIVE SIMS SHAW, M.R.C.S. Lond., L.S.A.

WE regret to say that another and a highly talented young Medical officer has fallen, in the person of Olive Sims Shaw, M.R.C.S. Lond., and L.S.A., House-Surgeon of the Millroad Hospital, Everton, Liverpool, under typhus fever, con-tracted in the execution of his duties. Mr. Shaw was in his 25th year, of considerable promise and skill. His kind, gentle, and truly amiable disposition endeared him to all. As a fellow-student, or as a Practitioner, he won the hearts of those with whom he had to do, and it will be long ere his kind look and genial disposition be forgotten by those associated with him in the Hospital. He breathed his last on Monday, the

11th inst., at 8 s.m. All that skill and attention could do was tion mes., at 5 s.m. All that skill and attention could do was done to save such a valuable life by Drs. Irvine, Cameron, and Jerman, but the great Disposer of events had otherwise ordained. Referring to Mr. Shaw's death, a correspondent

writes:—
"It requires great courage to storm the breach and dash amid
the stern melody of the battle-field npon the foemen's serried
ranks; yet it may be questioned if the moral ourage
requisite to pace 'the deadly typhus' wards of a pest-bouse
day by day and night by night be not as great as that which
inspires men who, for God and Falberland, treat the ossanness of the contraction of the contraction of the contraction
of the field of farms. The and, more 'a-shall we forcest the on the field of fame, 'red and gory'—shall we forget the Medical men who, as heaven-sent messengers, seek to soothe and save, and perish in their duties?"

MEDICAL NEWS.

APOTHECARIES' HALL.—The following gentlemen passed their Examination in the Science and Practice of Medicine, and received Certificates to practise, on Thursday, June 8, 1871:—

Murdoch, Donald, Rotherhithe, S.E. Strafford, Thomas, Ripley, Derbyshire.

The following gentleman also on the came day passed his first Professional examination :--

Wallis, William, Guy's Hospital.

APPOINTMENTS,

. The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

Boulton, Dr. Pency, M.D., L.B.C.S.E.—Physician for Out-patients to the Samaritan Free Hospital for Women and Children, Lower Seymour-street, vice Dr. Junker.

JOHNSON, THOMAS SOARS, L.R.C.P. Edin., M.R.C.S. Eng.—Medical Officer to the Lutterworth Union.

MEADOWS, ALFRED, M.D. Lond., M.B., M.B.C.P. Lond., &c.—Physician-Accoucheur at St. Mary's Hospital.

Accounter at o. May's Alongorial.

Parker, W. A., M.R.C.S.—House-Surgeon to the Victoria Hospital for Sick Children, Chelsea, wie H. M. Steele, M.R.C.S. resigned.

Wheavesory, C. H., L.R.C.P., M.R.C.S. E.—Assistant House-Surgeon to the Sunderland Infirmary, wie T. R. Heycock, M.B., resigned.

MILITARY APPOINTMENTS.

MEDICAL DEPARTMENT—Staff Assistant-Supposed George Herbert Clifton, M.D., has been permitted to retire upon temporary half-pay; Staff Assistant-Surgeon, vice Robert Nasmyth McPherson, appointed to the Royal Artillery.

ROYAL ARTILLERY. - Staff Assistant-Surgeon Robert Nasmyth McPherson to be Assistant-Surgeon, vice George Edward Gascoigne, who resigns.

BIRTHS.

Ambler, F.R.C.S., of a daughter.

COGMAN.—On June 12, at 267, New North-road, the wife of Charles Cogman, L.S.A., of a daughter. J.zwis.—On June 18, at Longhton, N.E., the wife of W. T. Lewis, M.R.C.B.E., of a daughter.

LOWNERS.—On June 12, at Egham-hill, the wife of T. M. Lowndes, M.D., retired Surgeon, H.M.I. Army, of a daughter.

[CRIEL.—On May 31, at 14, Scotch-street, Whitehaven, the wife of G. J. Muriel, M.R.C.S.E., of a son. MUBRAY.—On May 14, at Kurrachee, Scinde, the wife of Surgeon-Major William Sim Murray, M.B., 66th Regt., of a daughter.

RADCLIFFE.—On June 8, at 14, Regent's-park-terrace, N.W., the wife of J. Netten Badcliffe, M.R.C.S., of a daughter,

e. servem associate, M.E.U.S., of a daughter.
STROMALL—OD June 7, at 8, Queen-equare, Bloomsbury, W.C., the wife
of John William Billing Steeggall, M.R.C.S., of a non-Octavius.
TRENER.—OD June 7, at Ryde, Isle of Wight, the wife of Dr. W. F. J.
TRIBER, of a son.

Typell. On June 11, at Dover, the wife of Assistant-Surgeon W. J. Tyrrell, 102nd Fusiliers, of a daughter.

MARRIAGES.

DELMEGE—Scow.—On June 7, at 8. Paul's, Prince's-park, Liverpool, E. T. Delmeje, Esq., of Galle, Cerlon, eldest son of the late C. C. J. Delmeje, M. D., Staff Surgeon-Major, to Agnes Jessy (Sissie), eldest daughter of John Scott, Esq., Prince's-park, Liverpool.

daughter of John Scott, Esq., Prince-spark, Liverpool.

Fa.—Parker,—On June 7, at Christ Church, Timperley, Cheshire, Tullius
William Ward Fay, M.R.C.S., Canning-street, Liverpool, eldest son of
the late T. P. Fay, Esq., to Euphemis, youngest daughter of the late
John Parker, Esq., Liverpool.

HEY-LYOX.—On June 8, at the Church of the Holy Trinity, Newington, Surrey, Charles Black, eldest son of the late Henry Hodgeon Ogle Hey, M.D., of Sunderland, to Henrietta Elizabeth, eldest surviving daughter of Mr. William Lyon, of Guildford, Surrey.

insorr—Sтоков.—On June 13, at the parish church, Camberwell, William Scurfield Kirsopp, Esq., of Maiden Cross, Hexham, Northumberland, to Ellen, third surviving daughter of Richard Stokoe, Esq., M.D., of KIRROPP Peckham-rye.

Peckham-rye.
Sirissov-M., Avosi.—On June 7, at All Saints' Church, Upper Norwood, the Rev. Philip Benry Simpson, B.A., eldest son of the Rev. Philip Simpson, M.A., of Metham Hall, Yorkshire, to Mary Ross Alexandra Ann, only daughter of the late Fredericke Robert Manson, M.D.

STAMFORD—WALKER.—On June 7, at the parish church, Chesterfield, William Ackrill Stamford, M.R.C.R., of Tibebelf, Derbyshire, to Florence Louisa, third daughter of Huph Eccles Walker, M.D., of

STRWARD—COAY.—On June 8, at Blundeston, Suffolk, the Rev. Charles John Steward, rector of Somerleyton, Suffolk, to Edith Ann, daughter of the late William Cory, Esq., M.D., of Kingston.

on use same russam Coyf, Reis, M.J., of Kingston.

Tarty—Bleat.—On Jime IO, at the parish church, Lower Tooling,
Tarty—Bleat.—On Jime IO, at the parish church wither of William
Delay, Eeq., of Brookfield-house, Upper Tooting, S. W.
WILLIE—Ganssen.—On Jume 8, at Crieff, Harvey Wylle, Forest-hill,
London, son of David Wyllie, banker, Aberdeen, to Janet Orr, chlost
daughler of M. B. Gardner, M.D., Edinburgh, F.E.C.S.

DEATER

-On June 11, at Bromsgrove, aged 55, Obedience, wife of Dr. FLETCHER. -On . T. S. Fletcher.

S. Fietcher.
 HENY, JOHN PREDERICK GOULD, the eldest son of John Hunt, Surgeon, at 4, 54. George Company, Stanton, on June 6, aged 4 years and 3 months, Johns, Jahns, M.D., M.B.C.P.L., at his residence, 4, Harley-street, Cavendish-square, on June 6.

LEWIS, HESTER MARGARET, wife of Dr. Waller Lewis, Physician to H.M. Port-office, and youngest daughter of the late General Sir William Pringle, K.C.B., at 17, Bedford-place, Russell-square, on June 12.

Peacocke, Dr. Geosoe, M.A., Surgeon H.M. 63rd Regt., on June 5, at Hazarcebaugh, Bengal, in his 40th year, of diphtheris, dearly loved and mourned by his sorrowing wife and relatives.

VACANCIES.

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession. BIRMINGHAR AND MIDLAND FIRE HOSPITAL FOR SICK CHILDREN.—Two Extra Acting Physicians and an Ophthalmic Surgeon. Applications and testimonials to the Secretary, at the Out-patient Department, Steelhouse-lane, addressed to the Medical Committee, on or before June 22.

Batonron and Hove Dispensary, Queen's-road, Betorron.—Resident House-Surgeon; must have both Medical and Surgical qualifications and be registered. Applications and testimonials to the Chairman of the Committee of Management, on or before June 26. Election on July 4.

DEFON CONSTIT LENATIC ASTLEM.—Assistant Medical Officer. Applica-tions and testimonials to Mr. T. E. Drake, Solicitor, Exeter, the Clerk to the Committee, on or before June 20.

to the Commissee, on or feetor June 20.

"Hardburto," Hospital, Shill Pion Staken of all, Nations,—Port of Campire.—Besident Assistant Medical Ufficer. Candidates must be unmarried, and possess a Surplead qualification. Applications, with testimonials, on or before Monday, June 26, to David Roberts, Secretary, 17, (hurch-artes), Cardin.

HENLEY UNION.—Medical Officer for the Nettlebed District. Candidates must possess the qualifications prescribed by the General Orders of the Peor-law Board. Applications and testimonials to Mr. N. Mercer, on or before June 20.

HUDDIESTELD INTERARY.—Physician; must be a Graduate in Medicine of our of the Universities of the United Kingdom, or a Fellow or Mumber of one of the Colleges of Physicians, and be duly registered. Applications and testimonials to John Marsden, Esq., Hon. Sec., on or Applications as before July 28,

before July 29.

LIVERFOOL DEPENSARIES.—Assistant Resident House-Surgeon; must be duly qualified, and unmarried. Applications and testimonials to the Secretary, on or before June 29. The attendance of candidates will be required on the following day at 2 o'clock p.m.

Prequired on the following day at 2 o'clock p.m.

Parish or Lamperin.—Dispenser; must be either a Licentiate of the
Apothecaries Company of London, or have been duly registered under
the Pharmacy Act, 1898. Applications, with testimonials, on or before
Monday, June 19, to W. B. Wilmot, Clerk to the Guardians.

Monday, June 19, to W. B. Swinot, Clerk to the Guardans.

WESTHARKSTAT UNIOS, SESSEX.—Medical Officer and Public Vaccinator
for the Rumboldswyke District. Candidates must be qualified in accordance with the General Orders of the Poor-law Board. Applications and
testimonials to Mr. R. G. Raper, on or before June 17.

West Lorson Hostital, W.—Physician, Ophthalmic Surgeon, Junior Surgeon, Candidates for the post of Physician must be F. or M.R.C.P.Lu, and the Surgeons must be Fellows of one of the Hoyal Colleges of Surgeons of London, Edinburgh, and Dublin. Applications and testimonials to Mr. T. Alexander, on or before June 23.

POOR-LAW MEDICAL SERVICE.

.. The area of each district is stated in acres. The population is computed according to the census of 1861.

RESIGNATIONS.

Builgouter Union—M. RESIGNATIONS.

Builgouter Union—M. Resident Market has resigned the Huntspill District; and, 110.03; population, 510; abary, 200 per annum.

Builgouter Union—Mr. O. H. Torrance has resigned the North District; salary, £100 per annum.

Let'us Union—Mr. O. H. Torrance has resigned the Markyate-street District; res. 11,105; population, 550; 140; 2.50 per annum.

APPOINTMENTS.

Union,-John Woods, M.R.C.S. Eng., L.R.C.P. Edin., to the Found District.

Collect Course, Thomas Pritting, M and F. R.C.S. Eng., J. R.C.Y. Edin, to the Course Course, then North Eastern District. Also, Wm. C. Watson, M.E.C.S. Eng., L.R.C.P. Edin, to the North-Western District.

R.C.P. Edin, etc. the North-Western District.

M.F.C.S. Eng., L.R.C.S. Edin, to the Milton District.

M.F.C.S. Eng., L.R.A., to the Milton District.

M.F.C.S. Eng., L.R.A., to the Milton District.

Tanger Cause. "Double Parket L.R.C.P. Edin., L.R.C.S. Edin., to the Milton District."

Tanger Cause. "Prelocité G. Lawrence, M.R.C.S. Eng., L.R.A., to the Seventh District."

COLLEGIATE ELECTIONS .- The time having expired for candidates sending in their nomination papers for seats in the Council of the Royal College of Surgeons, the Fellows will proceed to the election on Thursday, the 6th proximo. The following gentlemen offer themselves for re-election—viz., Messrs. Edward Cock, of Dean-street South, elected in 1856, and Presi-Edward vors, of Dean-street South, elected in 1856, and Fresident in 1869; George Busk, F.R.S., of Harley-street, elected in 1863, and now Senior Vice-President of the College; and Frederick Le Gros Clark, of St. Thomas s-street, elected in 1864; these gentlemen are members of the Court of Examiners. Mr. S. A. Lane, as intimated in the Motient Times and Gazette, has resigned his seat in the Conneil, retaining that in the Court of Examiners. For the four vacancies, therefore, there are, in addition to the three above named, Messrs. Thomas Spencer Wells, of Upper Grosvenor-street, George Critchett, of Harley-street, and Barnard Wight Holt, of Savile-row. The annual festival will take place the same day, when Mr. H. D. Carden, of Worcester, will preside.

ARTS EXAMINATIONS.—For the preliminary examina-tion for the diploma of Fellow and Member of the Royal College of Surgeons, commencing on Tuesday next, it is stated that there are 343 candidates-viz., 92 for the former distinction, and 251 for the latter. The result of the examination, however, cannot be made known for many weeks, owing to the large number of papers to be read and examined.

ROYAL COLLEGE OF SURGEONS .- The following is an abstract of the unconfirmed minutes of the last meeting of the Council on the 8th inst. :- After confirming the report from the Court of Examiners, and admitting the gentlemen (of whom a list appeared last week in the Medical Times and Gazette) as Fellows of the College, the report from the Museum Com-mittee was read, recommending Mr. James Frederick Goodhart. of Guy's Hospital, and Mr. James Lidderdale, of St. Mary's Hospital, as pathological and anatomical assistants respectively for the year ensuing. It was resolved that the best thanks of the Council should be tendered to Dr. Thurnam, of Devizes, for his valuable donation of forty-six pathological specimens to the Museum of the College. The nominations to the following offices were made by the Council, viz.:—The Professors and Lecturer; the Examiners in Midwifery and the Examiners in Medicine. It was moved by Mr. Birkett, and seconded by Mr. Paget, that all legal opinions taken by the authority of the President or Council be laid before the Council at the earliest convenient period; the votes of the Conneil being taken, a majority was in favour thereof. Messrs. John Morgan Puddi-combe, of Dartmouth, Devon, and Edward Glover Bartlam, of Brosely, were elected Fellows of the College. Mr. Charles Hawkins gave notice of the following metion at the next meeting of the Council, viz :- "That a committee be appointed to consider and report to the Council if any alteration should be made in the wording of the diploma now granted to members of the College, or in the mode of issuing such diploma.

MR. DARWIN has been elected a Corresponding Member of the Academy of Vienna.

WE regret to learn that the veteran Professor Dr. Frederick Holst, of Christiana, died on June 4. Professor Holst was within three months of having completed his 80th year.

AT a meeting of the Court of Aldermen, on Tuesday, the City seal was affixed to a draft bill, the object of which is to enable the Governors of Bethlehem Hospital to establish and maintain a convalescent Hospital at Godalming, in Surrey.

THE Reigate Cottage Hospital has been formally opened

THE REGISTO COURGE TROSPING HIS SOUR FOR HIS AND ASSESSED.

WE hear that Dr. Talfourd Jones, M.B. Lond., who has for six years held the post of Resident Medical Officer to the Brecknock County and Borough General Infirmary, and who acted as Physician during the illness of the late Dr. Lucas, is a candidate for the vacancy created by the lamentel death of Dr. Lucar.

MR. JOB HINDLEY, of Bank-street, Red Bank, Manchester, has presented to the Manchester Royal Infirmary a bond for £1000, "in grateful remembrance of services rendered to him when a patient in the Hospital in the year 1826."

According to Dr. Parrish, of Philadelphia, the chances of a sober man's life being prolonged, as against an intemperate man, are—at the age of 20, as 44'2 is to 15'6; at the age of 30, as 36 5 to 13 8; and at 40, as 23 8 to 11 6.

INTELLIGENCE received from the interior of the United States of Colombia to May 12, informs us that a frightful

epidemic was raging at Santander. The Government was taking extraordinary sanitary procautions.

DEATH OF M. PAYEN.—This well-known veteran of

the Academie des Sciences has just died. He was especially the Academie are sciences has just are.

Are the Academie are sciences as just are as the science of the scienc hygiene. Notwithstanding his advanced age (76), he has ex-hibited during the recent critical times extraordinary activity in regard to researches respecting the vital question of public

THE STRASBURG FACULTY OF MEDICINE.-The transfer of this Faculty to Lyons seems to have been decided in prin-ciple. A deputation of titular Professors and sgrégés of the Faculty has arrived at Versailles at the same time as the Director of the Secondary School of Medicine at Lyons, in order to conder on the subject with the Minister of Public Instruction .- Gazette Medicale, June 4.

THE LATE DR. CHARLES ARMSTRONG .- At the last THE LATE DR. CHARLES ARMSTRONG.—At the last meeting of the Cork Dispensary Committee the following resolution was passed unanimously:—"That we sincerely deplore the death of our Medical Officer, the late Dr. Charles Armstronger strong, and feel it but due to his memory to publicly express this day our opinion of the great loss the poor of the district of St. Luke's have met in the death of one whose life and best exertions, ever ready and willing, for over twenty years were spent in their service, and whose warm-hearted philanthropy and benevolence were unremitting in attending the sick and alleviating the sorrows of the widow and the orphan.

THE principle of personal responsibility observed in The principle of personal responsionity observed in the German army is strongly advocated, we understand, in the reports furnished to the War Office by the Medical officers who were attached to the beligerent armies during the late who were attached to the beingerent armies during the into disastrous war. The French Medical Department appears to have failed entirely. Dr. James reports very favourably of the manner in which the Medical charge in the German army was

conducted.

An inquest was held on Monday by Mr. Payne touching the death of Mr. Charles Mapplesome, a Surgeon, living at Brunswick-villa, Clapham. It appeared that on Friday even-ing he returned to his home in good spirits, after having been to visit some friends. At half-past eleven he said, " I will give the dog a run on the common, as he has not been out all day. He then left the house accompanied by a large black dog, and he was never seen alive after. A policeman, shortly after twelve o'clock, found him lying on Clapham-common, dead. Dr. Lock, police-Surgeon, said that the deceased died from disease of the heart, after running on Clapham-common. Verdict of the heart, after running on Clapham-common. Verdict accordingly.

DR. GAIRDNER, Medical Officer of Health, in his annual report of the health of Glasgow for 1870, says that, after a year's experience of the new and enlarged organisation of the year's experience of the new and charged organisation of the sanitary department, the working of the new machinery promises improved results in the removal of the causes of disease and death; and adds:—"The true permanent sources of epidemic disease, and of all its associated crib—filth, overcrowding, physical degeneracy, and moral deterioration of every kind—are to be found, not so much in the mere existence of certain external nuisances, as in the growth and multiplication certain externai nuisances, as in the grown and multiplication indefinitely of a population prone to beget and to telerate nuisances—a population educated through successive generations into habits of squalor and indecency by the mere fact of defective house accommodation." In Glasgow, as clasewhere, by far the largest part of the mortality is due to pulmonary disease and Dr. Gairdner shows the close relationship of this dread evil to the state of the homes of the lower classes.

MANCHESTER BOARD OF GUARDIANS .- THE MEDICAL OFFICERS AND VACCINATION .- Dr. Meachain, one of the Medical Officers of the Union, referring to a placard stating that he was unfavourable to vaccination, said "that although twenty years ago a child of his had died eight days after vaccination, yet since then he had had two children vaccinated."

SMALL-POX IN LIVERPOOL .- The epidemic of small-pox ontinues, on the whole, steadily to decline in Liverpool, there having been 41 deaths from it last week, as compared with 74 during the sixth week previously, and the intermediate weekly periods having been marked by successive declensions of a tolerably uniform character.

ACCORDING to Dr. Holt, the Medical Officer of the

Westminster district, the small-pox epidemic in that locality is "gradually and surely subsiding."

THE Metropolitan Asylums Board, finding that the small-pox epidemic has become nearly stationary, and having 200 vacant beds at their disposal to meet any immediate emergency, will not at present fit up the second ship-of-war which the Government had placed at their disposal to serve the purpose of a convalescent Hospital.

the purpose of a convalescent Hospital.

THE Chairman of the Hampstead Vestry gave notice, at a meeting of the vestry last week, of his intention to move that fifty gainness be voided to the Rectical Officer of the desired of the state of

SPREAD OF SMALL-POX IN THE POTTERIES .- The reports respecting this midemic about the thind disease by appreading. The worst type of the thresses was Longton, where some 200 cases are now under treatment. During last week the disease had assumed a more fatal character than before, six deaths having been recorded, making the total number of deaths about forty. The Sanitary Committee do all they can deaths about forty. The Sanitary Committee do all they can to promote sanitary matters. They have now arranged that poor people may be supplied with nutriment from the Cottage Hospital, the Council defraying the cost. At Fenton, several poor people may be supposed and the cost. At Fenton, several deaths have occurred, and a number of cases are under treatment, and one or two of a mild type are reported from Burslem. Hanley, Tunstall, and Newcastle have at present escaped the epidemic.

THE intelligence that the mail steamship Norseman had arrived at the Cape with small-pox on board caused great and arrived at the Cape with small-pox on loard caused great excitement. The men affected were shipped at Plymouth. We have already exported small-pox to Madeira, the Cape of Good Hope, New York, Quebee, St. John's, (New Brunswick), and Lerwick (Shetland Isles), and still the shipping remains

free from annitary supervision.

In the Report of the Sanitary Condition of St. Mary, Islington for May, 1871, Dr. Ballard says that "the deaths registered in the four weeks ending May 27 were 299. Almost registered in the four wecks ending May 27 were 209. Almost precisely the same number was registered in May last year; and it indicates a very low general destinant. The general the tendence of the property of the property of the corresponding weeks of last year. Small-pox is the only disease of the epidemic class which has given us sny cause for anxiety. It is ten years since we have had so little soariet fever in May. The number of public cases of small-pox has been 226, and the datab registered from this disease have been oven 200, and the details registered from this disease have been ob. Both numbers are nearly the same as were recorded in the control of the There is every reason to hope now that, as the atmospheric temperature rises with the approach of summer, we shall see that continued decline of the epidemic which we have so long been waiting for. Still, it is not to be expected that the decline will continue steadily without fluctuations. The atmospheric temperature is the principal factor, and the cold weather experienced lately is not unlikely, at the expiration of a fortnight of incubation, to raise the number of fresh cases temporarily, Up to the present date we have a list of 1023 houses infected.
Of these the houses and their contents have been disinfected in 853 instances, leaving 170 yet to be dealt with."

MR. REDGRAVE, the Factory Inspector, in his half-yearly

report, says that it is a painful duty to receive day by day reports detailing the maining and disfiguring of so many workpeople in the earning of their daily bread, and to be powerless to help them. Boiler explosions are very fatal. In one sub-district, in which 10,000 boilers are estimated as being in use, there were seventy explosions in the last half-year—85 persons killed, and 138 injured. The large majority took place at ironworks; and, notwithstanding the fact that 7000 boilers are worked at high pressure, Mr. Inspector Baker expresses his belief that hundreds of these boilers are never in-pected at all by competent authorities. This, however, is a class of accidates which could be more easily grapple with than those in which fault can be attributed only to the sufferers.

THE Licensing System Amendment Association have put forth a circular, in which they amonuce an extended agitation which will "embrace not only a powerful opposition to the Government Licensing Bill during the present session, but the preparation of a complete measure in the session 182". A strangus effort to pass the Habitual Drunkards Bill of Dr. Dalrymje is to be made next session.

A TOCHING incident is recorded in the annual report of the tructors of the National Portrait Gallery, which has just been issued. Beferring to the visitors—3291 in number—on Easter Manday last, the trastes subjust the following extract amongst others, from the report mode on that occasion by the Severary to the Chairman.—"Dr. Janner, although now placed very light and in an unfavourable light, side not examp frequent observation. A woman, pointing to it, said to their zirks, "There's the one that's making such a lot of children suffer now from vaccination."

It's pages addressed to the Ficuch Academy of Sciences, Dr. Ronnford adverts to a singular and valuable property arterial vessels seem to possess of resisting the direct action of spherical bullets much better than the nerves do. One of his observations which led him to this conclusion was made at Kooditatsy, near Coustantian, where a soldier was hit from behind in the armpit by an Arab who was close upon him. The bullet, in its passage forwards, cut the nervous plexas nearly through, and also the axillary vein. The integuments, and all the other flashy substance in that region, were frightfully locerated, and even blackeded by the guape-wedley, yet in the midst of all this run the artery alone lay uninjured in the cavity, like a solitary cord. Another case quoted by him was estatic structure of the aterial costs, and by the cultimodal form, rendered still stronger by the continual motion of the blood.

POISONISO BY MISTAKE IN NEWCASTLE.—The following melanchy case of poisoning by mistake occurred recently
at Newcastle:—During the past month two of the children of
a man named Johling, residing in Juthill-stairs, have died of
small-pox, and two others, girls of the respective ages of 8 and
5 years, have been suffering from the same disease. On the
occasion in question, their mother having gone out for a short
time, the clief exhile, seeing a bottle which she supposed contained their medicine, but which really contained carbolio acid
used for disinfecting purposes, gave a portion of the acid to
her little sister, and then took some herself. The younger child
died in a short time, but the cled roo to gradually recovering.

THE RIGHT TO MAKE A POST-MORTEM. - On Friday, the 9th list., Mr. Bedford held an inquest at the Westninster Hospital, on the body of Charles Cooper, aged 46, house painter, York-street, who fell a depth of twenty feet, from the balcomy of a house which he was painting. Deceased was at once removed to the Hospital, when it was found that he was suffering from a severe scalp wound; the collar-bone and one of the ribs on the left side were fractured. He lingered some days, when he died from the effects of the injuries and shock to the system. William Cooper, son of the deceased, complained that the post-mortem had been made against the determined opposition of his family. Mr. Rac, House-Surgeon, not having made the post-mortem himself, could give no explanation why made the post-mortem himself, could give no explanation way the wishes of the friends of the deceased were disregarded; upon which, Mr. Wilson, the secretary of the Hospital, was called, and, in answer to the coroucr, said he was not aware that the consent of the friends had been refused, and regretted the post-mortem had taken place at all, as it was against the rules of the institution. The Coroner said he would nover permit the feelings of relatives to be outraged by such an unwarrantable proceeding on the part of Hospital Surgeons, and it was also most injurious to the interests of the surgeous, and it was also most injurious to the interests of the institution that such things should occur. He could not characterise the proceedings in too strong language, and he would do his utmost to put a stop to it. The poor had as keen feelings as the rich, and he would protect them as much as he would the others. He directed Mr. Wilson to bring the subject before the Visiting Committee, with the view of preventing the recurrence of such proceedings.

HEALTH OF SCOTLAND.—During the month of May, 1871 there were registered in the eight principal towns of Sociland 3731 births, 529 marriages, and 2800 deaths. These numbers are the highest recorded during any month of May since the Registration Act came into operation in 1855. Allowance being made for increase of population, the marriages and deaths are, respectively, 47 and 265 above the average of the corresponding month of the predict of the increase of population, they ought to have been 3791. A comparison of the deaths registered in the cipth principal towns shows that during May the annual rate of mortality was 21 deaths per thousand persons in Leith, 24 in Dundee and in Aberdica, 38 in Perits, 30 in Einhungh and in Greenock, 36 in Paids, and 36 in Glasgow. Of the 2800 deaths, 195 even, were of children under 5 years of age. In Perth, 26 per cent. of the persons who died were under 6 years of age; in Dundee, 31; in Dundee, 31; in Paidsey, 32; in Greenock, 35; in Aberdeen, 37; in Edinburgh, 42; in Edinburgh, 42; in Edinburgh, 42; in Edinburgh, 43; in Edinburgh, 42; in Edinburgh, 43; in Edinburgh, 45; in Edinburgh, 45; in Edinburgh, 45; in Leith, 46; and in Glasgow, 50 per cent.

The New York Adortionsers.—At the trial of a "Dr." Wolf, a well-known abortionist of this city, for easing the death of a woman, the Assistant District Attorney thus stigmatised a noted female abortionist, who occupies one of the most platial residences in the Fifth-arenue:—"I have a right to refer to that den of shame in our most covored street, where each refer has the street of the control of the control of the control of the third which that infraons coman has shed might have served to mist the mortar with which that place of miquity was built. When I see American mothers, with servants in livery, and all the evidences of sphendour and wealth, frequent these bloody courts, and contribute to keep up this woman in her extravagance and licentionness, i, in common the control of the control of

Gas-cooking.—Mr. Nixon, House Governor of the London Hospital, writes, respecting Leon's gase-cooking apparatus:

—"In the six mouths ended Dec. 31 last the large roaster was in use 125 days, being about aix days short of a full half-year work. The waste of meat-during this period averaged about reading, with the the coasumption of gan was also reduced from a daily average of 610 to 250 cubic feet. The actual saving to the Hospital in 125 days was—in meat 4579 lbs., and in gas 44,325 cubic feet, or for a full year's working of 261 roasting-days, very nearly 10,000 lbs. of meat, worth at present prices 252 cubic feet, or for a full year's working of 261 roasting-days, very nearly 10,000 lbs. of meat, worth at present prices 252 cubic feet, or for a full year's working of 261 roasting-days, very nearly 10,000 lbs. of meat, worth at present prices 252 cubic feet, or for a full year's working of 261 roasting-days, very nearly 10,000 lbs. of meat, worth at present prices 252 cubic feet, or for a full year's working of 261 roasting-days of the collection of gas being and the destruction of vermin by dry fact works exceedingly well. The for disinfecting purposes) in about three bours, at a cost of 10d, the coasumption of gas being about 200 cubic feet."

A DISTINGUISHEN personage of his period, Lord Radhor had a great fondness for letting the blood-a the point of an aniable bancets, not a hostile sword—of his friends. But his lordship, far from accepting a fee, was willing to remunerate those who had the courage to submit to his Surgical cave. Lord Chesterfield, wanting an additional vote for a coming division in the House of Feers, called on Lord Radnor, and after a little introductory conversation complained of a distressing headache. "You ought to lose blood, then," said Lord Radnor. "Gal' do you, indeed, think so? Then, my dear lord, do add to the service of your netwee by performing the operation; I know you are a mort-kilffle Margon," Delighted.

at the compliment, Lord Radnor in a trice pulled out his lancet-case, and opened a vein in his friend's arm. "By-the-byc," asked the patient, as his arm was being adroitly bound byc," asked the patient, as his arm was being adroitly bound up, "do you go down to the House to-day?" "I had not intended going," answered the noble operator, "mot being sufficiently informed on the question which is to be debated; but you that have considered it, which side will you vote on?"
In reply, Lord Chesterfield unfolded his view of the case, and Lord Radnor was so delighted with the reasoning of the man -who had held his Surgical powers in such high estimationthat he forthwith promised to support the wily earl's side on the division. "I have shed my blood for the good of my country," said Lord Chesterfield, that evening, in telling the story to a party of friends.

THE Chinese have very strict notions as to hereditary taint; chiefly, however, on moral grounds. The children of actors, among others, for three generations are excluded from the greatest privileges of citizenship, and capital punishments may follow unlawful attempts to exercise them. Not long since, thirty examiners, including an ex-chancellor, were put to death for admitting an actor to a competitive examination .- Dr.

DR. CLIFFORD ALLBUIT has contributed a paper to the Alpine Journal, May, 1871, "On the Effect of Exercise upon the Bodily Temperature," from which we make the following extracts :- " In the snmmer of 1870 I made it one of the lesser aims of my Swiss ramble to ascertain how far the temperature aims of my Swiss ramble to ascertain now far the temperature of the body was changed by muscular exertion. . It may excite the angry impatience of some of my readers to be told that the effect of exercise npon bodily temperature is very trifling. It seems absurd to tell a man who is toiling up a steep snow-slope, about 11'45 a.m., under a blazing sun, that if he thinks he is decidedly hot he is wholly in error, and that his temperature, if raised at all, is raised in a measure only perceptible to a very delicate thermometer. I may venture, perhaps, with more impunity to reassert this fact now, as most of my readers are far away from slopes of 45°, and are shivering in their easy-chairs under the rigours of an English spring. The 'general reader' has probably been made aware that modern men of science have shown that all forms of force such as heat, light, motion, chemical action, vital action, and the like, are mutually convertible, the one into the other; or rather that, indo:d, they are but various manifestations of one thing-motion; motion of molecules or motion of masses. Heat, for instance, is a motion of molecules: a climber up a slope represents the motion of a mass, and the one kind of movement is convertible, and constantly being converted, into the other. Food taken into the blood, if so directed, will raise the man through 14,000 or more feet, as a ton of coals, if so the min through 14,000 or more feet, as a tool of coast, it is directed, will earry a locomotive along a certain length of rail-way. In each case, by a process which differs only in detail, is heat converted into motion. It might be expected, therefore, that a man ascending Monte Rosa would lose in heat what he expends in movement : for on his arrival at the top he represents a certain definite amount of force derived from combustion of food in his body. The average temperature of the human body is about 98.7° Fabr., and it may vary between 97.5° and 99.2°, with a few tenths of indifference above and below. To riso to 100° is, however, to become slightly but decidedly feverish, and temperatures of 105"—110° on positively and waith. signity but decidely reversa, and temperatures of 10—110 are positively and rapidly destructive. On the other hand, temperatures below 97° show danger of an opposite kind, and signify a depression of vitality below the limits of health. It is clear, then, that if the body is to survive, its temperature must preserve a constant level, or rather it must move in a definite curve, the place of which is constant for the same hour of every day, or nearly so. . . M. Lortet denies, upon the strength of his own observations, that the body has the power of making up for rapid conversion of heat into mechanical work during an ascent. He says that, not only on ascending Mont Blanc—which he did, I think, twice—but also on climbing little hills at home, his temperatures underwent very serious depressions, amounting to 5° Fahr. and more. Such depressions I twice noted, but one was during a descent, and the other during a gentle ascent of lower slopes.

In my own case, I believe, the two depressions of temperature

were due to lack of fuel. I cannot but think that if a warm-blooded animal has stomach cought to assimilate for a warm-blooded animal has stomach cought to assimilate to the stomach of the stomach cought to assimilate lungs, and lungs of capacity sufficient to burn it rapidly off, such animal will not be liable to lose the balance of his forces during wholesome exertion. I am disposed to think that no better test could be found than the thermometer to decide the

wholesomeness of exertion in different persons; and if I may reason from myself to others, I should say that the effect of hard exercise in a mountainous district is to accelerate the morning rise, to carry it two- or three-tenths above the average level of health, to favour the somewhat earlier occurrence of the evening fall, if the exertion be ended, to make the fall more rapid, and to carry it again one-tenth, or perhaps depression during exertion signifies either deficiency of food or inefficiency of internal work."

NOTES, QUERIES, AND REPLIES.

De that questioneth much shall leurn much .- Bacon.

The following are in type, and shall appear as soon as possible: --Mr. Jonathan Hutchinson, on Fracture of the Patella; Mr. Brooke, on Force and Energy; Mr. Maunder, on Lumbar Colotomy; Dr. Moxon, on Syphilitie Softening of the Brain; Abstracts of Dr. Guy's Lectures on War

A Veterinary Surgeon, St. Paneras,-The skeleton of "Orlando," presented by the Queen, has just been placed in the Museum of the College of Surgeons, where you can examine it.

A ROUGH TEST FOR ALBUMINOUS URINE By F. PORTER SHITH, M.B. Lond., M.R.C.S., etc.

By F. Poarns Suru, M.B. Lond, M.R.C.S., etc., I may be useful to know that the presence of albumen in the urine is marked by the strong tendency to froth, when the urine is passed in the ordinary way into a resul, or from the persistence of the bubbles forming in the urine when shakers up in a bottle. A very life to the bubble forming in the urine when shakers up in a bottle. A very life to further examination, labeled: urine may be supposed to show the same tendency in a less marked very; but I have had no opportunity of ascertaining the fact. The alcoholic strength of intertures (solden up to the mark) any be roughty tested by watching the rate of dauppearance of the bubbles caused by shaking the bottle containing the preparation.

TENAX.

TEMA.

TO THE ROITOR OF THE MERGLAT HERS AND GAZETTE.

We observe a notice of "Temax" in your number of June 10, in which you state that "it seems for "Temax" in your number of June 10, in which you state that "it seems for the state of th

THE MEDICAL DEPARTMENT OF THE ARMY .- "AT THE OFFICE."

lossage; he condoles with ose, cheers another, uncomfortably digs Bachelor and Poling and Poling and Poling and Poling and Poling a hourt heads, the hell rings, and IJr. Connell, of Castle Connell, County for follows; a collection of the "Captan," who would cut his uncle for stone one day and side him with a borse the next, would have be parties of Converse, MR, T. C.D.

(Favourite Papil of Stokes and Corregas, and rich with the Captan of Converse, the Captan of Converse, and rich with the Captan of Converse, and rich with the Captan of Converse, and rich with the Captan of Capta

Death BY HANGING.

TO THE EDITOR OF THE MEDICAL TIMES AND GAZETTE.

DATH OF HANDIO.

TO THE EDITOR OF THE REWIGAL THEM AND GALETTE.

Ria,—When the question of respiting a murderer, from the difficulty, on.
I submitted to the Home Secretary a plan by which death by hanging, even in the present unsatisfactory manner, might be revolered "painteen," and the Home Secretary a plan by which death by hanging, even in the present unsatisfactory manner, might be revolered "painteen," and if the cap draws over the courtee's face before the fails bolt is polled back were made of cil-silk, padded with cotton-wool, and secured at the bottom with instant binding—the octon-wool may be an extracted with poor columns will produce insensibility to pain in forty-eight seconds—in the time affired between the oliquement of the roye and the withdrawal every prisoner requires while on the sacfold to be supported by the warden, his instally to keep up would not be noticed, and thus a perfectly and the same of the same o

COMMUNICATIONS have been received from-

OMMUNICATIONS have been received from—
Mr. H. II. Consers; Mr. F. Fendercey; Mr. E. H. Creser; W. A. G.;
Dr. Lucoserienne; Mr. F. Fendercey; Mr. E. L. Herser; W. A. G.;
Dr. Lucoserienne; Mr. F. Fenderce; Mr. Hercz, M. Green, Mr.
Dr. H. J. M. Change; Dr. H. Lever, Mr. J. L.
Dramson; Mr. T. Horocone; Mr. W. Passes; Mr. F. H. Weller;
Dramson; Mr. T. Horocone; Mr. W. Passes; Mr. F. H. Weller;
Dr. Baumrian; Dr. Buscon-Stanesson; Mr. J. Carro; Mr. Class.
Beson; Mr. H. Assorr; Mr. Jone G. Passen; Dr. Gibbon; Rev. G.
Calasco; Dr. E. Houverto; Mr. C. Conaza.

BOOKS RECEIVED-

Parker's Effects of Diet and Exercise on the Elimander C. kitrogen—Buchan's Introductory Text-book of Meteorology.

PERIODICALS AND NEWSPAPERS RECEIVED-

merican Journal of Psychological Medicine, No. 2—The Scotsman— Saunders's Newsletter—New York Medical Journal, April—Nature— Pharmaceutical Journal—Medical Press and Circular.

APPOINTMENTS FOR THE WEEK.

June 17. Saturday (this day).

perations at St. Bartholomew's, 1½ p.m.; St. Thomas's, 0½ a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 9½ a.m.; Royal London Ophthalmie, 11 a.m.

19. Monday.

persions at the Mctropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Peter's Hospital for Stone, 24 p.m.; Royal London Ophthalmic, 11 a.m.

20. Tuesday.

Operations at Guy's, 14 p.m.; Westminster, 2 p.m.; National Orthopædi Great Portland-street, 2 p.m.; Royal Free, 2 p.m.; Royal Londo Ophthalmic, 11 s.m.

21. Wednesday.

Operations at University College Hospital, 2 p.m.; St. Mary's, 14 p.m.; Middlesex, 1 p.m.; London, 2 p.m.; St. Bartholomew's, 14 p.m.; Great Northern, 2 p.m.; St. Thomas's, 14 p.m.; Samartan, 2:30 p.m.; King' College Hospital (by Mr. Wood), 2 p.m.; Royal London Ophthalmie,

BOYAL COLLEGE OF PHYSICIANS, Sp.m. Dr. Chambers- Harveian Oration.

22. Thursday.

perations at 8t. George's, 1 p.m.; Central London Ophthalmie, 1 p.m.; Royal Orthopædie, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmie, 11 a.m.

23. Friday.

Operations at Westminster Ophthalmic, 13 p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m.; South London Ophthalmic, 2 p.m.
Quarary Microscopical Club, 8 p.m. Mr. N. E. Green, "On Diatom Markings as examined by the Lime-light."

VITAL STATISTICS OF LONDON.

Week ending Saturday, June 10, 1871.

BIRTHS.

Births of Boys, 1080; Girls, 1062; Total, 2132. Average of 10 corresponding weeks, 1861-70, 1926.8.

DEATHS.

		Males.	Females.	Total.
Deaths during the week	:	756 625'4	681 594:3	1437 1922-7
Average corrected to increased population		***	***	1345
Deaths of people shore 90		***		* ***

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion,	Small-pox.	Musles.	Surlet lever.	Diphtheria.	Whooping-	Typhus.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhose.
West		458125	19	4	- 5	3	9	·	2	3	7
North	***	619210		2	10	1	7	3	4	2	4
Central	***	393321	7	2	3	1	5		1	1	1
East	***	571156	17	3	4		6	1	1	- 5	7
Bouth	***	773175	85	12	12	1	5	1	4	8	4
Total		2903989	245	23	34	6	32	1 4	12	14	23

METEOROLOGY.

From	Observations	at	the	Gree	mwich	1	Observa	to	
Mean height of	barometer								29 825 in.
Mean temperate	are							٠	49-9°
Highest point o	f thermometer							٠	66.8
Lowest point of	thermometer								38'7"
Mean dew-poin	t temperature								42.4
General direction	m of wind .							٠	N.
Whole amount	of rain in the	rree	k.						0°31 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, June 10, 1871, in the following large Towns:-

Boroughs, eds. 2		on in 1871.	cre.	during ane 10.	during une 10.	Tem of A	pera lr (Fa	ture hr.)	Temp. of Air (Cent.)	Ra. Fal	in il.
Leaders	(Municipal boun- daries for all except	Estimated Population middle of the year 187	And 1.)	Registered eek ending J	hs Registered week ending J		the W		Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
	Portsmouth Norwich Bristol Bristol Wolverhampton Birmingham Leicester Nottingham Laiverpool Manchester Saiford Bradford Hradford Leede Bheffield Hull Sunderland Nowcastle-on-Tyne Edinburgh Glaserow	125464 81787 178364 7 6439 878574 101367 90480 526225 879140 123851 148830 206108 255247 135195 103037 139261 17944 477957	18 2 10 9 37 0 22 0 48 2 31 7 45 2 103 0 84 2 12 2 11 1 2 36 0 31 7 40 1 9 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	684 6117 533 962 85 799 316 316 127 82 82 84 84 84 84 84 84 84 84 84 84 84 84 84	89, 33, 62, 25, 154, 42, 83, 317, 906, 91, 73, 115, 111, 56, 93, 94, 94, 94, 94, 94, 94, 94, 94, 94, 94	67 2 63 0 63 0 63 7 70 2 65 2 65 7 62 0 63 0 63 0 63 0	39 8 38 0 36 7 36 5 37 7 37 5 41 4 38 0 41 0 41 0 41 0 40 0	51.6 47.2 49.3 50.8 50.7 51.6 49.6 49.6 49.6 49.6 150.1	10-80 8-44 	0°10 0°21 0°35 0°02 0°05 0°01 0°04 0°00 0°02 0°02 0°02	0-95 0-53 0-69 0-58 0-18 0-13 0-03 0-03 0-05 0-05 0-05

At the Royal Observatory, Green wich, the mean reading of the barometer in the week was 29 % in. The highest was 30 00 in. on Mondey evening, and the lowest was 29 72 in. on Thursday afternoon.

and the lowest was 27 I in. on Thursday afternoon.

Note.—The population of Cities and Boroughs for 15; is, estimated on the assumption that the same and the same of the contract of the same and the same of the contract of the contract of the same and the contract of the contract of the same and the same and the contract of the same and the

The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on April 3, will probably be available before the middle of the year, and will then be substituted for these estimates.

ORIGINAL LECTURES.

LECTURES ON FORCE AND ENERGY DELIVERED AT THE BOYAL INSTITUTION, ON MAY 9 AND 16,

By CHARLES BROOKE, M.A., F.R.S., Consulting Surgeon of the Westminster Hospital.

LECTURE I.

Titte lecturer commenced by remarking that the present relative signification of the terms "force" and "energy" is of considerable antiquity; the terms dynamic and energy are employed in the ethics of Aristotic, and may perhaps be best represented by the terms "potentiality" and "actuality," related as that which has the power of producing activity is to that which has the power of producing energy, as the power of doing work. To these terms may be added the qualitative adjuncts serial or potential. The meaning

of the former is obvious; the latter significe, capable of being brought into action. Thus, the force of guapowder is potential until it is ignited, when it becomes destructively actual. The vapour raised from the earth's surface by the rays of the sun acquires in the clouds potential energy; in again descending acquires in the clouds potential energy, and may do useful work in the shape of mountain torrests, the used motive power in mountainon sdistricts, or mischief to the garden and greenhouse, in the solid form of hail. Again, the energy of a pendalum is wholly potential at each extremity of its oscillation, and wholly actual at the middle or lowest point. Practically, the term "actual" is not used, and potential if frequently used cliptically for "potential energy"; thus, we speak of the patential of an electric charge, or of a voltaic current.

The ambiguous manner in which; thus, it is common to speak of the force of the shot; the powder has force, but the shot only energy. Again, the terms "force of inertin," "force of premission," "entrifugal force," have been frequently but erromeously employed. Inertia is simply the negation or non-existence of any disturbing is simply the negation or non-existence of any disturbing is simply the negation or non-existence of any disturbing is simply the negation or non-existence of any disturbing is simply the negation or non-existence of any disturbing acquires in the clouds potential energy; in again descending

is simply the negation or non-existence of any disturbing energy. In cases of percussion, the energy of the striking body may be more or less imparted to the body struck, either with or without the Intervention of the force of elasticity. This was shown by means of two suspended ivory balls. If a little bit of putty be placed on the point of impact of one ball at rest, and the other he raised and allowed to impinge near at rest, and the other he raised and allowed to impingo upon it, they will swim togother to exactly half the height that the one ball descended from, because the energy acquired by the descending ball, from the action of the force of gravity, is just sufficient to raise double the mass to half the height. But if the classicity of the balls be allowed to come into play by the removal of the yielding material, then the striking ball remains at zero. the striking ball remains at rest, and that which was struck rises very nearly to the height from which the former descended, clastic force having in this case imparted to the ball at rest the remaining half of the energy of the striking ball. The instan-taneous transmission of the energy of impact through a long row of glass balls in contact was then shown, as an illustration of the molecular transmission of energy. It was observed of the molecular transmission of energy. It was observed that the first experiment illustrates what is described in works

"eentrifugal energy."
The next point alluded to was the principle of the Conservaare near point aimage to was no principle of the Conserva-tion of Energy, which is identical with that treated of in all theoretical works on dynamics as the "conservation of eix eies." This implies that energy, once impressed on matter, is as in-destructible as the matter itself; it may be variously modified, transferred, or transformed, but cannot be similaristed. This subject has been so ably treated by Mr. Grove that it was proposed to give in the sequel only a few conspicuous examples.

on mechanics as the impact of two perfectly hard-i.e., incompressible - bodies, a property certainly not possessed by putty, and to which, in fact, there is not the remotest approxi-

mation in natural objects: perfect inelasticity is the property actually required, and it would be more consistent with fact

to assume it directly, and not indirectly, as a consequence of the inconceivable attribute of perfect hardness. The term "centrifugal force" will in all cases be correctly replaced by

The diffusion of energy was then spoken of. In many cases there may be, at first eight, an apparent loss or disappearance of energy, but a little attentive consideration will in all cases indicate what has become of the missing energy. Thus, for example, a stone falling on another stone on the ground probably

Vol. I. 1871. No. 1095.

displaces the latter; but if it fall on the hard ground, what becomes of the energy of the falling stone? Is it expended in an infini-tesimal displacement of the whole mass of the earth? Certainly not; it is expended in the disturbance of particles adjacent to the point of contact, accompanied probably by a minute evolution point of contact, accompanied promotify of a minute virtual of heat. The cold nail on the antil, which, by a few adroit blows from the blacksmith's hammer, becomes sufficiently heated to light his forge, and the rifle-ball, which, on striking the iron target, is scattered in sphashes of molten lead, are both instances of the evolution of heat by internal friction, in constance of the evolution of heat by internal friction, in consequence of the molecules being urged against each other with considerable energy. Again, suppose a steel spring to be forcibly flexed and retained in its flexed position, like the spring of a gun-lock when cocked; a certain amount of energy has been expended in raising the hammer, which remains potential been expended in raising the hammer, which remains potential in the spring; now, suppose the lock to be placed in the fire until the spring; is softened, what has become of its potential energy? Doubless, it has been used up in producing per-manent molecular displacement at the moment when the spring was just sufficiently softened to yield to that particular amount of energy which had been and best, electricity and It was then remarked now more or less commendly recommised

It was then remarked that light and heat, electricity and magnetism, which are all now more or less generally recognised as forws of energy, have all been assumed to be susterial, but imposite side. The corposeuts theory of light sufficed to ex-plain ordinary optical phenomena until the discovery of diffrac-tion and interference, when a very forced applicamentary hypotological properties of the control of the con-trol of the control of the control of the control of the properties of the control of the contro petual somersaults during their onward progress: rebounding, or being reflected from the surface of a medium, if they or nong renected from the surface of a medium, if they encountered it sideways, but ponertaing, and being refrareds, if they met its surface endwise. This hypothesis is, however, in-sufficient to account for the phenomena of polarisation. But all observed phenomena of light are in perfect harmony with the annulation theory, as now commonly accepted—namely, that light consists of transverse indulations or vibrations, like the ripples on the surface of still water when a stone is dropped into ripples on the surface of still water when a stone is dropped into it; and not only does this theory fit all previous observations, but the appearance that will be presented to the eye, when a ray of light is transmitted through any hitherto untried arrangement of transparent media, may safely be predicted by analysis; as in the remarkable case of Airy's spirals, see when a polaried ray is successively transmitted through two plates cut from right- and a left-handed quarter evaluation of beat; and the observed rathation of cold induced Black to ascribe to observed rathation of cold induced Black to ascribe to observed radiation of cold induced Black to seeme to cold an independent material existence; but these phe-nomens are completely explicable on the "theory of ex-changes," which means that every body radiates its own temperature, whether high o low, and that every surrounding body absorbs the radiations; consequently, the radiations of a cold body will lower the heat of a warmer body in its vicinity. cont body will tower the heat of a warner body in as section, just as a cistern with two pipes of mequal bore will, if fed by the larger and emptied by the smaller, become gradually faller, while, if fed by the smaller and emptied by the larger, its contents will be diminished; the parallel, in absorbed and

emitted radiations, is obvious.

Again, it was formerly taught that there were two electric
"fluids"—the "vitrous" and "resinous"; but these were
subecquently merged into one, and the positive and negative
aspects of electricity were assumed to be differences in quantity
only, and not in kind, positively electrified bodies being in
excess, and those negatively electrified, in defect of the normal
excess, and those possessions are proportion where the proposition of emitted radiations, is obvious. quantity. Moreover, magnetic properties were supposed to be vested in two "fluids"—the "austral" and "boreal"—posvested in two "fluids"—the "austra" and "boreal "poses sessing mutually attractive and self-repulsive properties. But all these theories are probably alike groundless; they are, more-ever, utterly inconsistent with the perpetually recurring inter-changes of the various presumed forms of energy; for it impossible to conceive one kind of matter to be converted into another kind, or matter to be converted into mere motion, and

rice rerai The phenomena of so-called "latent heat" have by many here pursonment or so-cauted "intern near nave by many been supposed to present an argument against the dynamic or undulatory theory of heat, on the ground that it is impossible to conceive motion to exist in a latent or quiescent state; but this discition and the conceive motion to exist in a latent or quiescent state; but this to concerve motion to exist in a materia or quiescent state; but this objection rests on an erroneous appreciation of the phenomena themselves. It is well known that nearly 78° C. are required to convert ice at 0° C. into water at the same sensible temperature; also, that nearly 556° C. are required to convert water at 100° C. into steam at the same temperature. These quantities constitute what has been termed latent heat. The simple fact is, that these amounts of thermic energy are necessarily occupied in maintainin; water in the fluid and caseous states

respectively, and are independent of sensible temperature.

Some conspicuous examples of the interchanges of the several

forms of energy were then brought forward.

 The Interchange of Dynamic and Thermic Energy.—This is the only transformation in which the equivalence has yet been determined quantitatively, and it is remarkable that three independent methods of investigation led to almost identical independent methods of investigation red to almost identical results. Before mentioning these it may be remarked that, in order to arrive at a numerical relation, it is necessary to assume certain units, as means of comparison. In this country the certain units, as means of comparison. In this country sine unit of dynamic energy is the amount required to raise one pound-weight through the vertical space of one foot; this is usually called a foot-pound. The unit of thermic energy is the amount of heat required to raise one pound of pure water at common temperatures one degree of Fahrenheit's thermometer, In the metrical system the units are one kilogramme raised one metre in height, and one degree Centigrade in temperature, Dr. J. R. Mayer's result was deduced from purely theoretical considerations, which are in perfect harmony with analysisnamely, that the amount by which the specific heat of a given volume of gas, maintained at a constant pressure, exceeds that of the same gas when maintained at a constant rolume, must be the equivalent of the dynamic energy it is capable of exerting in its expansion under a constant pressure. This result, when rectified by a more accurate subsequent determinaresult, when rectined by a more accurate subsequent determina-tion of the specific heat of air by Regnault, gives (in the metrical system) I thermic unit = 426 dynamic units. Very nearly the same result was obtained by M. Hirn from the actual work of the steam-engine, assuming that the difference between the heat imparted to the steam, and that contained in it after it has hoat imperfed to the steam, and that contained in it after it has left the cylinder (amounting to about 5 per cent of the instance of the control of the work done in and by the engine. Dr. and the control of the work of the control of dynamic into thermic energy. This was effected by a careful estimation of the bast developed by expending a known amount of energy is stirring water and mercury, and in rubbing one iron plate against another. Dr. Joule's equivalent mean value is 425. dynamic units.

2. The interchange of dynamic and electric energy is best exemplified in the machine of Holtz, and in those of Wheat-stone and Siemens. In the former, induced electricity is stone and Stemens. In the former, induced viscouriety, in gathered by a comb from the front of a rotating glass disc, the induction being effected by an electrified slip of paper placed behind, but not in contact with, the disc. In this machine it may be remarked that the higher the potential of the charge the greater is the resistance offered to the rotation of the disc. the greater is the resistance offered to the rotation of the case. In the machines of Wheatstone and Siemens two armatures rotate between the poles of an electro-magnet; one of these returns the induced currents, if any, into the coil; the other is lesigned to utilise the induced currents in any required manner. If the iron were absolutely free from magnetism, these machines would have no action; but, inasmuch as there always remains a small amount of residual magnetism, a minute current is induced, which, traversing the coil, developes a small increase of magnetism, which again induces an increased current, and so on. And thus the electro-magnet becomes self-excited at the expense of the dynamic energy exerted in rotating the armature.

3. The conversion of thermic into electric energy, and vice versi, was then shown by the passage of a voltaic current through a single thermo-electric element of bismuth (b) and antimony (a). It has long been well known that the applications of the control o tion of heat to the point of junction determines a current from b to a, and of cold, from a to b; also that the transmission of a voltaic current (if not of too high potential) through the element from δ to a produces cold at the point of junction, while if from a to δ, heat is produced. It some time since appeared to the lecturer that, in accordance with the principle of peared to the secturer that, in accordance with the principle of the conservation of energy, the heat lost in the one case at the point of junction must be found in increase of current, and that the heat gained in the other case at that point must be gained at the expense of current; and this was shown to be the fact, by placing such an element in one of the branches of a Wheatstone's bridge, and balancing its resistance in the cor-responding branch, and then sending the current from a small Smee's element through the bridge; the galvanometer distinctly showed a gain of current in one case, and a loss in the other.

4. The interchange of thermic and photic energy is shown in the phenomenon which has been termed "calorescence, which a plate of platinum absorbs the obscure rays of heat situated at and beyond the red end of the spectrum, and becomes white-hot—i.e., emits light; and the ordinary phenomena of

incand secure and plas phores ence tend more or less to illutrate the same point; also the phenomena of "fluorescence", show the conversion of what may be termed actinic energy, manifested chiefly in chemical actions—ss. for example, in the processes of photography—into light. This occurs when the rays at and beyond the violet end of the spectrum formed by a quartz prism, or train of prisms, fall upon various sub-stances: of which solutions of quinine and asculine, and glass coloured by oxide of uranium, are the most conspicuous examples.

examples.

The fact of the dynamic nature of electricity is strongly corroborated by the observed interchanges of electric and thermic energy; it is further confirmed by the analogy of an acoustic experiment made by Sir C. Whentstone. If a tuningacoustic experiment made by Sir C. Wheatstone. If a tuning-fork be held obliquely in contact with an appropriate sounding-board, a resonance is immediately perceived; but if the tuning-fork be moved parallel to itself while still in contact with the board, the resonance ceases, from the perpetual interference of the molecules of the wood vibrating in a series of parallel planes. The instant, however, the fork is allowed to rest, the resonance recommences with an instantaneous outburst of sound, which is doubtless owing to the resistance offered by the inertia of the molecules of the wood to the commencement of continuous vibration. This is probably an exact analogue of the initial "extra" current of Faraday—the rush, as it were, with which a voltaic current commences traversing a conductor, when the circuit is closed.

ORIGINAL COMMUNICATIONS.

EXTENSIVE SOFTENING OF THE BRAIN FROM SYPHILITIC DISEASE INVOLUTED THE CAPOTED APPROPRIE

By WALTER MOXON, M.D., F.R.C.P., Assistant-Physician to Guy's Hospital,

THE effect of syphilis on the arteries is now an important and The effect of syphilis on the arteries is now an important and interesting question. Some authorities believe that the aorta-tude of the control of the control of the control of the I have never yet found a probably syphilitic deposit in a great artery along with disseminated syphilitie formations in other parts. The appearances that are set down as syphilitic by Dr. Aitken and others are too like the common deforming Dr. Attendand one's are to allow a certain conclusion of their syphilitic nature. But there is no doubt of the occur-rence of syphilitic disease of arteries of middle size, such as the carotid and basilar.

The following case is not one of primary arterial disease, but it shows well what terrible results may follow from apphilitie

it shows well was terrible results may follow from syphilitic disease sering upon a cerebral artery:—

The patient was a man, aged 30. He was well-built and nourished, and with a good healthy skin and plenty of hair and beard. He applied in December, 1870, among my out-patients at Guy's, suffering from intense headache. There was no local paralysis, etc., but the headache was so intense that it was difficult to retain his attention. He would go aside and rest his head between his hands on the mantelpiece instead of answering. He, however, gave me to understand that he had had chancres several times within the last seven years, but he denied secondary symptoms. He had no apparent syphilitie denicd secondary symptoms. It is not no apparent symptoms cachesia. The man was at once admitted to Stephen Ward under the author's care, and iodide of potassium given to the extent of a drachm in the day. This produced no ill effect, but the headache diminished with wonderful quickness, and, in a few days he was quite free from it. In three weeks he left the Hospital, being quite well and lively, and anxious to get to his work. He was cautioned that on the reappearance of such pain in the head he should at once come back.

Four months afterwards he was again admitted to another ward, his symptoms being intense headache, as before, but now with decided somnolence and mental weakness; he vomited with decided somnoleuce and mental weakness; he vomited sometimes, but had no local palsy. The iodide of potassium, which was given to him in three-grain doses, often returned, through the irritability of the stoomet. Ho grew worse, and had an attack of an epileptiform kind, marked by entire insen-sity and frastion of the eyes in an upward and inward direction. He then sank gradually during a fortuight, with

all the symptoms of softening of the brain.

Inspection of the body showed a mass in the sella turcica of about the size of a half walnut, composed of half fleshy, half cascous material, such as makes up syphilitic gummata. The

dura mater, pituitary gland, and the parts of the floor of the third ventricle adjacent were confounded together in the mass, and the bone was superficially diseased. The optic nerves were implicated, and so were the carotid arteries; both of these were affected, the left being almost entirely closed up, its wall wrinkled longitudinally by swelling and by pressure from without. The left brain was, for the most part, softened to without. Include to rain was, for the most part, sortend to pulp, some parts, irregularly defined, romaining comparatively firm. The right brain showed a lesser degree of the same change; the cerebellum and pons were healthy. The state of other viscera gave important aid in identifying the disease. Both testes were good examples of syphilitic sarcocele, and the liver and spleen had numerous characteristic syphilitic deposits in them—i.e., deeply sunken sears adherent to parts around, and having in their depth caseous patches, surrounded by zones of fibrous wasting tissue—these patches in contrast with the

healthy remainder of the organs. healthy remainder of the organs.
It is worthy of remark that, while syphilis is thus unspar-ingly general in its attacks mon organs, yet it plays over vulnerable or much-abused organs which saffer disproper-tionately from common causes of disease, suffer also, in much the same proportion, from syphilis, while the throid appear, eapsules, deep-seated bones, and, indeed, generally those parts which are not obsortions to other "common" diseases, escape which are not obsortions to other "common" diseases, escape also in syphilis. This suggests that syphilis acts as a factor cumulative with other factors of disease. An overworked part in a syphilitie is more liable to syphilitic accidents—just as, in an untainted person, that part easily falls under common accidents. Indeed, it appears that the taint of syphilis induces circumstances of little intrinsic importance to determine a local outbreak of disease. As an easily observed instance of this, take the common occurrence of pigmented patches on parts of the skin that are subjected to pressure by buttons, etc. Indeed, as Mr. Hilton in his very interesting lectures used to enforce, you may thus often find valuable evidences of syphilitic taint which, in parts of the skin that do not undergo slight pressures, which, in parts of the skin that do not undergo sagns pressures, are not produced. We get from these facts suggestive hints as to the importance of easing vital organs from overstrain, etc., in persons who have syphilis about them. The case is significant as showing the effect of large doses of iodide comsignificant as showing the effect of large doses of iodide compared with that of small doses.

ON LUMBAR COLOTOMY.

By CHARLES F. MAUNDER, F.R.C.S. Surgeon to the London Hospital.

In this journal I have on several occasions communicated facts Is this journal I have on several occasions communicated fasts and remarks upon Lumbar Colonny, illustrated by reference to six cases in which I have performed this operation—two in Hosenstances in which I have performed this operation—two in Hosenstances or the performance of the person of the person of the six instance of the operation, in which I had experienced great difficulty (a circumstance quite new to me in the performance of colotomy) in finding the bowel, by reason of the well-developed condition of the maneles in the lumbar region. It developed condition of the muscles in the lumbur region. at was feared that this unusual thickness of abdominal wall would become a source of discomfort to the patient, and of auxiety, lest the wound should tend to close, to the Medical attendant. And so it proved to be for a time; but the means employed to overcome the obstacle were successful. This employed to overcome the obstacle were successful. This patient, a male, was under the immediate care of Mr. Dryland, of Kettering; and certainly he conducted the treatment of a most difficult Surgical case with great judgment. The operation was performed on December 27, 1869. From time to time Mr. Dryland informed me of his patient's progress, and I cannot do better than quote his remarks:—
"January, S. 1870.—Mr. E. was in high sprite; had passed about half a gallon of feece through srtificial amus without make pain, and tell much refleved; no pain in cancer; no

desire to pass fieces per (natural) annum; appetite very good."

Sh.—Mr. E. is going on in every way satisfactorily, with
the exception of the new passage being much filled up with
musele, which projects from the wound, and now blocks it up
to a considerable extent, and eauses much pain and soreness. to a consucrance extent, and causes much pain and soreness. Two things I want to ask about. Shall He thing get up (which he very much wishes to do)? and would you approve of my trying to destroy some of this muscle slowly with nitrate of silver, or some other caustic?"

I suggested that the wound and passage to the bowel through the loin should be enlarged, both with the knife and actual cautery, by removing a portion of skin from around the former and by destroying the superabundant musels of the latter. On March 10 Mr. Dryland eays, "I performed the actual cautery operation on January 31, and it has been a complete access." There is now a good free opening into the bowel, and

the whole of the frees passes through without pain or difficulty, and in large pieces—in fact, the artificial opening has much the appearance of a veritable 'anus,' with a very slight profapse of the rectum. Mr. E. comes down dressed every day, and his

of the rectum. Mr. E. comes down dressed every day, and his spirits are very good on the whole. I believe the rectum is completely blocked up."

On May 6, 187, the first include the rectum of the May 6, 187, the their the dead. Mr. Dryland reports—"Mr. E. died on Thursday (May 4). At the post-morton I found cancer of the liver and omentium. As far as the operation was concerned, all the parts were in the most perfect order, and might have lasted for twenty years. The gut below the artificial anna was shirvielled up and very small; above, large. I had for some time to use the catheter occasabove, large. I had for some time to use the catheter occasionally, but a few weeks ago the urethra (which had been gradually getting so) became so crooked from the growth of the cancer, that it was impossible to pass either a silver or clustic catheter. He was by this time so very bad that I did not entertain the idea of tapping the bladder above the pubis, and per rectum was impossible. The immediate cause of death was convulsions, caused, I doubt not by normic poisoning, as the bladder was much distended, and what urine did pass at last seemed to come through the remains of the rectum." No word from me is necessary to show the value of lumbar colotomy in certain cases of abdominal discuse. The history of the above case is conclusive.

In a future number of this journal I will record the history of a seventh instance in which I have recently performed

colotomy, and in the right loin. New Broad-street, E.C.

DIGESTED MILK. By JAMES MORRIS, M.D.

As you have just spoken of digested or fluid moat in your journal of last week, your readers may perhaps be interested in the cognate subject of digested milk. I do not remember to have seen this mentioned in your pages. To whom the original idea is due I do not know, but to me it came from Sir William Jenner. He recommended that a trial should be made of it more than four months ago in the case of an infant at that time in a most precarious state. The only other child of the same mother had died under similar circumstances at about the same mother had died under similar circumstances at about the same age, air months. The milk used was asseed milk; the presine that of Messars. Bullock, Hanover-street—the proportions, ascaleulated by Mr. Bullock, being as follows:—Assess milk, yr.; pepsine, gr.v.; dilute hydrochloric acid, mxxx. These ingredients were digested together for two hours by the heat of a water-bath at the temperature of 120 Fahr. The acid was then mutralised by carbonate of sod, gr. xij, and the solution then filtered. It had always a slight bitterness, but this was covered by sugar, and at first, also, by a little twice of the control of the co at last became strong enough to take ordinary food, and is now in fair health. Cows milk was tried ocasionally, hat was found that unless more pepsine and acid were used much curd remained upon the filter. The removal of this is, por-haps, not a disadvantago. This case has strongly impressed haps, not a disadvantage. This case has strongly impressed me with the advantage of the artificial digestion of milk for suitable cases.

13, Somer's-place, Hyde-park-square, W.

THE Gaz. Farm. Ital. advocates the addition of chloral hydrate to cod-liver oil; it renders it much less nausons, and prevents the night-sweats of the phthisical patient, induced sleep, and creates appetite. It is propared as follows:—Ten gr. pure chloral hydrate crystals with 190 gr. cod-liver oil, digested in a sand-bath with gentle heat. Doss, six tablespoonfuls daily.

REPORTS OF HOSPITAL PRACTICE

MEDICINE AND SURGERY.

UNIVERSITY COLLEGE HOSPITAL.

LARGE PEDUNCULATED VILLOUS TUMOUR OF RECTUM REMOVED BY LIGATURE.

(Under the care of Mr. MARSHALL.)

JOSEPH R., a railway porter, aged 69, was admitted into Mr. Marshall's male ward on April 30, 1871, with the following history:—He had always enjoyed good health, never being laid up until his present trouble but twice—once with a severe compound fracture of the leg, and another time with the effects compound reacure of the log, and another time with the enects of a dog-bite. For six or seven years, however, he had felt a small tumour in the rectum, which came down whenever he had a motion, but which was always replaced without difficulty. It gave him no pain, and, save for its slimy discharge and occasional sharp hæmorrhage, was not a source of any special trouble. But on the morning before admission it came down, and could not be replaced, and, after losing much blood from repeated trials at reduction, both by himself and his Doctor, he was brought to the Hospital.

On whatission, there was found projecting between the nates a tumour, the size of a fist, dark in colour, apparently made up of small round masses, and full of venous blood.

of small round masses, and full of venous blood.

The same day, chlordorm was given, and Mr. Marshall passed a needle, armed with a stout double-ligature, through the base of the tumour, and tied it in two portions. Another thread was also passed round the pedicie, and the man was returned to bed with carboilc acid dressings upon the tumour. He passed a restless night from pain, and next day the tumour was found to be considerably shrunken, pale, and already with an offensive smell. The burning and bearing-down pains continued for some days, but by May 12 the ligatures came away, and he then began to mend rapidly, and is now convalescent.

A piece of the tumour was cut off for examination by Mr.

A piece of the tumour was cut off for examination of air.

Beck, the Surgical Registrar, who gave the following report of
its structure:—"It was found to be a large papillary growth,
composed of numerous bobules about the size of a large filbert,
which were fixed by pedicics to the base of the growth. Each
blobule was again subdivided into smaller bobules, the size of peas, scated upon a common stalk, and these again into delicate papille. Under the microscope, the stalks upon which the lobules and papille were seated were found to be composed of a delicate fibro-nuclented tissue, containing large numbers of vessels of considerable size. This fibro-nucleated tissue extended into the papille, forming their stroma. No vessels could be seen in the ultimate papille, and towards their extremities the fibres disappeared, leaving only the nuclear The whole was covered with a thick layer of columnar epithelium. The epithelium on each side formed more than three-quarters of the thickness of the papilla. The papilla were about one-tenth of an inch in length and one-thirtieth of an inch in breadth, and of a conical shape."

We are glad of the opportunity of recording this case, as we believe this special form of disease in the rectum, lu which a villous tumour of considerable size is attached to the bowel by a slender pedicle, is exceedingly rare. In our Hospital Reports during last summer we narrated a case of very similar character, occurring in the practice of Sir William Fergusson, who pursued the same line of treatment as that adopted by Mr. Marshall on the present occasion. Villous growths in the rectum are by no means unknown, and small polypi in the same position are, of course, familiar objects to Surgeons seeing much of the diseases of this region, but villous polypi of the dimensions of those now under consideration are amongst the rarest forms of growth met with in the rectum, and hence the value of the report upon the microscopic structure of this tumour furnished by Mr. Beck.

CANCER OF THE TONSIL. (Under the care of Mr. ERICHSEN.)

Eliza B., a married woman, aged 50, was admitted under Mr. Erichsen's care on May 1, 1871, with a tumour of the tonsil, apparently cancerous. She stated that she had always enjoyed apparently characterists. So sales that are had a ways enjoyed good health herself, and that her parents had both lived to a great age. Her five children also were perfectly healthy. Last October size caught cold, and with it sorethroat, and when this had continued for a month she noticed a swelling in the throat, which had steadily increased, with much pain and soreness. She noticed, at the same time, that the neck glands soreness. She noticed, at the same time, that the new grands became swollen, but these after a time subsided somewhat, although still much enlarged. Her appetite now began to fail,

and she lost flesh rapidly.

On admission there was found a large tumour occupying the position of the left tonsil. This growth reached down out of sight, below the root of the tongue, and, on a digital examina-tion, its lower extremity was found to be about on a level with the epiglottis. It was nodulated on the surface, and the mucous membrane covering it was slightly redder than natural. The soft palate was not implicated by the growth. It was not tender on pressure, nor was there any ulceration of the surface.

It was of firm consistence, and covered with thick white mucus. The glands beneath the jaw on the left side were clearly visible, forming rounded prominences as large as filberts. They were

torming rounced prominences as large as interest. They were perfectly free from adhesions, were hard, and not at all tender. It was not deemed prudent to attempt any operation for the relief of the disease in so advanced a stage, and we only report the case as an interesting specimen of a somewhat rare complaint.

THE LONDON HOSPITAL.

SALIVARY CALCULUS, OBSTRUCTING WHARTON'S DUCT AND CAUSING SWELLING OF THE SUB-MAXILLARY GLAND AND TONGUE.

(Under the care of Dr. RAMSKILL.)

[Reported by Mr. STEPHEN MACKENZIE, Resident Medical Officer.] [Exported by Mr. Strengs Mackszar, Resident Medical Officer.]
A. K., admitted April 4, 1871. The patient, an intelligent, healthy-looking lad, gave the following account two days subsequent to his admission:—Ho has had "numps "several times during the last few months. By numps, he means a times during the last lew moules. By samps, he means a swelling which made its appearance on the right side of the neck just below the jaw, which was not painful, but "felt like a weight." The swelling generally attained the size of a pigeon s-egg, but did not interfere with eating, and, after lastpigeon's-egg, but did not interfere with cating, and, after lassing about three days, would subside. He has never had any swelling of the testes coincident with or following the "mumps." He has not been feverish at these times, nor have any other persons in the house been similarly affected.
On April 2 he was in his usual health.

On April 3, he noticed in the course of the day that there was a little lump near the right angle of the lower jaw. In was a little larger, and "felt like a weight"; but it did not prevent him eating his supper, nor did he feel

in way ill.

When he awoke on the morning of April 4, he found he could not close his month, and "could only breathe out He was unable to swallow his tea at breakfast, of his nose." He was unable to swallow his tea at orearrast, and noticed that the swelling under the jaw had much increased. He felt ill and feverish, and could not get his breath well. His mother took him to Victoria-park Hospital in the afternoon, where he was seen by Dr. Baumler, who advised his being brought here, telling the mother that, if his breathing got worse, some operative measure might be necessary. On admission, it was observed that his mouth was partially open, and that he was unable to close it on account of the swollen condition of the tongue. The latter appeared pushed somewhat backwards, so that the floor of the mouth was easily seen, and this was occupied by viscid saliva, which overflowed and ran out of the mouth. The tongue itself was moist, and of a natural colour, but so swollen as to occupy the whole of the oral cavity with the exception of the sublingual space. There orac cavity with the exception of the anolingual space. There was a somewhat hard, smooth swelling, unaccompanied by any redness, extending from the right angle of the jaw to the niddle line. The patient could neither speak nor move his teams. tongue. He had rather an anxious leok; but his breathing did not seem particularly embarrassed. He was sent to bed, but his breathing did not seem particularly embarrassed. He was sent to bed, and ordered to suck ice continuously. In the evening his condition was about the same. His breathing was 24 in the minute, not laboured, and there was not any recession of the opigastrium or intercestal spaces during inspiration; pulse 124; temperature 101°. He was able to swallend fluids, but with considerable difficulty. As his bowels had not acted for several days, he was ordered an aprinnt. He was ordered to continue sucking the cle, and no other medicinal treatment was adopted. About midnight was told that his breathing was more difficult, but when I saw him shortly after, he was asleep and breathing quietly. His mother, who stayed with him, said that he would sleep for about ten minutes at a time, and then awake as if about to April 6th.—He says that early this norming he found something nudes his tongue. He did not know what it was: "Thought it might be an orrange-pip, or a piece of a tooth." He took it out of his mouth, and put it by to show. In a very short time after finding this, "his tongue felt much smaller, and he could breathet through his mouth." When I saw him in the morning he was able to close his mouth, and could more his the same that the same in the same in the same largers able to the titter was still a good ladd along the same in the same in the same in the same he raised his tongue, a round ulcerated opening could be seen on the right side of the freamm in the salidingual space, and through this there welled up a thin purulent fluid. The swelling beneath the jaw was slightly diminished in size. He could swallow much more casily, and could articulate, but in an infulling the same in the same in the same in the same state. The object he competance 95.

6th.—Tongue almost of its natural size; the swelling beneath the jaw much diminished. A little purulent matter still wells up through the opening beside the freenum. Pulse 88; respiration 20; temperature 98.4°. He was allowed to get up and to take solid food.

take solid food.

7th—The opening in the sublingual space much smaller, and does not exude any fluid. There remains a swelling boundab the lower jaw, commenting a little anterior to the boundab the lower jaw, commenting a little anterior to the is a fourth part, which proceeds from these others towards the middle line. This is apparently Whatton's duct, thickened. Tongue clean and of a natural size. He feels perfectly well, and his appetite is good.

He left the Hospital on the following day, feeling quite well, but slight swelling of the submaxillary gland remaining.

ROYAL INFIRMARY, EDINBURGH.

CASE OF CATARRH OF CERVIX UTERI. (Under the care of Dr. MATTHEWS DUNCAN.)

(Under the care of Dr. MATTHEWS DUNCAN.)
[Communicated by Dr. J. R. Harder.]
accel 36, is married, and has had six children

A. E., agcd 30, is married, and has had six children. Last March she miscarried of a five months' fortus. For three months before this miscarriage she suffered from metrodagia, which during the last fortnight of its presence increased in severity. The bleeding did not recur until last October, when it continued for three weeks. Five weeks ago it again returned it continued for three weeks. Five weeks ago it again returned, week research of the proposition of great to veek since. She has not much pain, but complaine of great

On physical examination, the belly is found to be soft, natural, and resonant on percussion over all the lower part. The uterus is movable, and apparently natural; os uteri slightly patulous; susperficial ulevation is seen to surround it, covering an area of about the size of a sixpence. A muco-purulent discharge issues from the os. The probe introduced into the uterus further above, the patulousness of the cervix; it enters a little less than three inches.

Testimes:—The abrasion round the on was touched with nitrate of silver three or four times, and the corris was inhedded in iodide of lead ointment every events. Three grains of iodide of potassium were administered twice Three grains of iodide of potassium were administered twice. The patient was under treatment for about three weeks, when she was discharged oured.

Remarks.—The above is an example of one of a set of cases in which too much importance is sometimes given to signs or symptoms, the attention not being directed to their cause. As annuch attens is frequently laid on the superficial ulceration which ordinarily accompanies catarri of the cervix uteri as if it were the disease itself; the minds of Physician and patient become so absorbed with the idea of ulcer of the womb, that the contract of t

most convenient and least irritating form in which it can be used, but he is of opinion that a better method is desiderated. The ointment is applied by means of the instrument to be described. The instrument, which is made of wood, consists of two parts—a hollow cylinder about eight or nine inches long and two inches in diameter; and the instrument where the property of the same shape, but smaller, and selid. The whole mode of action. The tube, being charged with about one draching of the continuent, is introduced into the vagina and carried up to the cervit uteri, where it contents are evacuated. This maneurre is performed with or without the aid of a speculum. This method to issuig ontinent is to be preferred either to the balls with wax coating or to the preserves made with caçao butter, because, the object being loke put he ionium in contact by reither so well; the wax coating of the first frequently refuses to melt, and the whole ointment cause to be discharged as introduced; the latter melts and runs out shortly after introduction. The ointment is applied daily. It is necessary, for the sake of cleanliness, to wash out the passage every morning while using it.

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Medical Times and Gazette.

SATURDAY, JUNE 24, 1871.

THE SMALL-POX EPIDEMIC.

The general total of small-pox deaths registered in London last week was only five below those registered in the week ending June 10. Indeed, it is only in the West and South districts that any diminution was recorded-in the West from thirty-nine to twenty, and in the Sonth from eighty-five to seventy-seven deaths. In the East the mortality rose from twenty-six to forty-four. Neither can it be said that there is any amendment observable in the character of the attacks. The hemorrhagic form prevails far more than it is pleasant to contemplate, and in all parts of London we hear of cases fatal on the third or fourth day of the illness. The prolonged delay of summer weather is a noteworthy fact in connexion with this tardy and unsatisfactory progress towards decline. Last week the mean temperature rose to 59 5°, seven degrees above the mean of fifty years; but for six weeks previously the mean temperature has been almost constantly below the average of the season.

Nothing but panic appears capable of stirring up English people to take proper precautions for their personal safety in epidemic seasons. The small-pox panic lasted for a month or six weeks, and during that time the public vaccinating stations were crowded with applicants, mainly for reaccination; but familiarity has now brought about its proverbial result—a contempt of a danger which is even greater than it was in February and March. Nowthistanding the fact that the

deaths in London from small-pox have been very much over 200 per week, the business at the stations has subsided, generally, to its average amount in ordinary seasons; while at some stations it has actually been so low that there has been a difficulty in keeping up the arm-to-arm vaccinations from unexceptionable pocks. Surely, in the face of an epidemic like the present, this is not a satisfactory state of things, and there can be no surprise that the Asylum District Board, on whom local authorities have thrown much of the work that they ought themselves to have performed, demand that it should be amended. Among other recommendations which they made to the Vice-President of the Privy Council, in the conference they had with him the other day, is one which we have over and over again urged in these columns-namely, that, under certain circumstances, visits should be made from house to house, for the purpose of vaccinating at the houses of the defaulting poor. It is true their suggestion only goes to the extent of thus insuring the primary vaccination of infants, and we should like to see revaccination offered in a similar manner: but on its adoption the latter would be not unlikely to follow. The great obstacle to revaccination among the labouring classes is the loss of time incurred by going to the station and awaiting their turn; and local authorities have, in many instances, only added to the difficulty by fixing such days and honrs for attendance as are the least likely to be convenient to persons actively engaged during the day. We are satisfied that inconvenience has more to do with the neglect of revaccination than any positive objection to undergo the process, and that, were it made the dnty of a vaccinator to visit the dwellings of vaccinated children on the eighth day, he would succeed in inducing a large number of adults and young people to submit to the operation; but then he should go at a time when these elder members of a family are likely to be at home and accessible. Local anthorities seem to act upon the principle that the vaccination of the poor is a matter which only concerns the individual, just in the same way as the Medical care of an ordinary sick person; they are strangely oblivious to the fact that every case of small-pox they can prevent, by vaccination or revaccination, is one focus the less from which the disease may spread in a neighbourhood to unprotected or insufficiently protected persons. They have to deal with a great public calamity, but they have shown themselves incapable of rising to the contemplation of their duty as regards the public, whose sanitary affairs they are appointed to administer, or of moving the merest trifle out of the groove in which they have been travelling. We are convinced that it is in the power of our vaccination authorities to check the epidemic, if they had the will and the courage to incur the expense, and it has been in their power all along. A determined and well-arranged raid against it by a sufficient number of vaccinators, to whom small districts were assigned in every metropolitan parish, would within a month or six weeks prove its own justification. Regarding the proceeding in a pecuniary point of view, the salaries or fees of special vaccinators would scarcely be appreciable when compared with the demands which will be made upon the ratepayers for Hospital expenses, and the support of poor families deprived of their occupation or left dependent npon public charity by the illness or death of the bread-winner.

HEALTH OF HONG-KONG DURING 1870.

Wa learn from the Sanitary Report of Hong-Kong for 1870, by Dr. J. I. Murray, the Colonial Surgeon, that in the early part of the summer and up to August 3 there was a great and unusual increase of fever among the European and American residents, in some instances assuming something of the character of typhus, and proving rapidly fatal. But for the most part it was not of a dangerous type, although, by its tendency to relapse, it caused great protesticol. The number of deaths among the foreign residents was slightly larger than during the preceding year, but the death-rate of 3:1 per cent., being calculated on the census of 1869, no allowance being made for the increase supposed to have occurred among this class of inhabitants, was probably not actually increased. The information as to the number of deaths among the foreign residents is merely approximative, the only means of estimating it being from the number of burials in Protestant and Roman Catholic cemeteries. The Colonial Surgeon urges the necessity of a proper system of registration of deaths being enforced by law, and very justly observes that this is a matter of the greatest importance, and really of more interest to every resident in the colony than is generally supposed; for nntil it is possible to obtain better statistics of the actual mortality and cause of death in all cases, a valuable aid is withdrawn from the Medical Practitioner in the treatment of disease. Opinions varied as to the cause of this fever; it was generally attributed to cuttings having been made in the hill-side, and the cut soil being spread over the roads undergoing repair. Dr. Murray, however, considered that the malady might be traced to the remarkably small fall of rain which had taken place previous to August 3. The very defective drainage also probably contributed towards the causation of the fever. The sewage is discharged along the foreshore through untrapped drains, and its exposure at low tide in a semi-fluid state to the heat of a tropical sun has been pointed out to the colonial authorities, by Dr. Murray and the Sanitary Commission, as a source of disease and death against which no amount of carbolic acid or other disinfectants can ever be of the least avail.

Dr. Adams, the Health Officer of the port, sent in a report on the subject of the connexion between this disease and the ballasting of ships with tidal mud. Of 235 vessels in ballast, twenty carried tidal mud from Shanghai, and in these no fever occurred. One hundred and twenty-four vessels from Yokohama were ballasted with ordinary soil, or with muddy shingle taken from the beach, and in eight of these fever occurred. The disease, however, was already prevalent at Yokohama, and may have been communicated to the crews while on shore, but it is remarkable that no fever was reported while the vessels had cargo on board, general or otherwise. Dr. Murray observes that as Shanghai mud is unquestionably "tidal," ballast obtained at Yokohama was not strictly of this character, there does not appear to be any strong evidence afforded in the cases recorded in favour of the theory that it is a frequent, source of typhus.

source or typnus.

Small-pox commenced to appear in December, 1869, and rapidly assumed the epidemic form in spite of every pre-caution used by the police to prevent its spreading. Fourteen cases were admitted into the Government Civil Hospital, forty-sex into the Seamen's Hospital, besides seven in the goal. With this exception, no epidemic visited the colony during the year.

The health of the 'troops serving in Hong-Kong was not so good as in 1869, and did not compare so favourably with the of the police as it did in the previous year; the rate of admissions among the troops having been 1677, and of deaths 201 per 1000, and among the police 977 and 16 respectively. Dr. Murray, however, only compares the rates of sickness and mortality among the aggregate of European and black troops, and of European, coloured, and Chinese police. On analysing his tables, we find the following results --

i					Number	Number	Ratio per	1000.
į			8	trength.	admitted.	diod.	Admitted.	Died.
	European	roops		518	1052	6	2031	11.58
		police		120	178	4	1483	33.33
	Black troo	D8		875	1146	22	1310	25.14
	Coloured p	olice		301	395	5	1332	16.61
		do.		204	38	1	180	4.90

From the above it will be seen that the comparatively lower rate of sickness and mortality among the police is entirely due to the better health enjoyed in their own elimate by the Chinese portion of the force. On consulting the last published Army

Medical Department Report, being that for 1868, we find that among the European troops the admission- and death-rates were respectively 1088 and 14-97 per 1000; so that, although the ratio of admissions during 1870 was considerably higher, that of deaths was a good deal lower, and compares most favourably with the death-rate of Enropean troops in India. The high death-rate of the European police may have been an accidental variation occurring among a small number of men; but it is highly probable that many of them are discharged soldiers, whose advancing age, longer residence, and laxer discipline are unfavourable circumstances. According to the Army Medical Department Report above quoted, an immense improvement has latterly occurred in the health of European troops in China, the average rate of admissions and deaths during the eight years from 1859 to 1867 having been 2085 and 56·10 per 1000. The improvement appears coincident with the very considerable reduction of strength which has been going on since 1866, in consequence of which the amount of barrack accommodation has been proportionately increased.

The death-rate of the black troops, composed of Cingalese or East Indians, has been always high in China, and is a proof of the injurious effects of a foreign residence to men of these races, even in a climate so analogous to their own.

The working of the Contagious Diseases Act in Hong-Kong has been attended by exceedingly satisfactory results. In the Civil and Seamen's Hospital the percentage of contagious diseases contracted in Hong-Kong to all admissions was 8-96, against nearly double that amount in 1869. In the garrison, including European and black troops, the percentage of primary disease to total strength was 5-51, against 6-83 in 1869; and among British ships of war, only 116 cases of contagious disease were contracted in Hong-Kong. In the police a similar improvement has taken place. The type of the disease among the women is undergoing a steady improvement. Deputy Inspector-General Pottinger, of her Majesty's Naval Hospital, judging from his own experience, testifies that syphilis has all but disappeared from the colony; during the year and nine months that he has had charge of the Naval Hespital, he has not seen a case of regular Hunterian chancre contracted in Hong-Kong, and only a few soft sores, which healed readily. Dr. Ramsay, Surgeon of the 75th Regiment, gives the following table :-

Statistics of Venereal in H.M.'s 75th Regiment from December 21, 1868, till December 21, 1870.

Average strength during the above-named period, 428.5.
 Different forms of venereal and the number of cases of each between the above-named dates:—

Chancre, Hard. Chancre, Soft. Secondary Syphilis. Gonorrhosa. Total.

Dr. Ramsay further states that during an experience of sixteen years as an army Medical officer in all climates, he has not seen a similar immunity. Surgeon-Major Barnier, of the French "frigate Guerriere, also

Surgeon-Major Barnier, of the French frigate Guerriere, also gives evidence as to the small number and slight nature of the cases of syphilis contracted by Europeans in Hong-Hong.

Dr. Murray considers such evidence very valuable, and gratifying to himself, under whose care the Medical examinations have been carried on for the last twelve years. He delains, also, for the instruments which he employs—which, through his long experience, he has been able to bring to perfection—a special facility and rapidity of bringing the parts throughly into view without causing the slightest pain to the subject of the examination.

THE VALUE OF EXTRACT OF MEAT.

Liento's extract of meat has now been long enough before the world to enable most men to form their own opinions as to its specific value as an article of food and as an article of medicine. Nevertheless, it may not be amiss on our part to point out what has been ascertained as to its worth, and to indicate as exactly as possible the uses to which it ought to be put.

Meat as an article of dict owes its value partly to the mineral substances it contains, partly to the organic compounds, albuminoid and oleaginous. The mineral substances probably undergo little change in the human body, and with the oleaginous we do not now concern ourselves, but the albuminoid, having been ingested, are in the stomach reduced to a uniform substance, termed albuminose or peptone, by means of the acid and pepsine of the gastric secretion. All albuminoid bodies are so reduced-albumen, fibrin, etc.-and this new substance has the special property of diffusibility, a property altogether awanting in albumen itself. But straightway the process of degradation commences, and a multitude of new compounds-kreatin, kreatinin, leucin, tyrosin, etc .- are formed, but the force evolved in the change is the force manifested by the body-in other words, life implies these changes and the ultimate conversion of albumen into urea.

Let us now apply these physiological facts to the study of nest extract, and we shall find something worthy of our attention. Let it be noted, then, that over and above the juice of meat there is some available material in its substance, for this is soluble in the stomes.

In the extract, substances which exist only in very small quantities in normal meat are increased a hundredfold, whilst the really important and nutritious substances are actually diminished. Animals have no constructive postthat resides in vegetables. Albumen having ceased to be albumen and become kreatin, can never be again converted in a blumen in the animal economy; it can only proceed on its ertograde source to eff das urea. This being so, it is evited that the nutritive value of meat extract, in respect of its albuminoid constituents, must be but small.

Some time ago, Kimmerich, in an article in Pflugers Archiv, astonished, and we might say frightened, the world by announcing that Liebig's extract was actually poisonous. He has, however-so to speak-reconsidered his opinion, and, in a recent article in the Deutsches Klinik has been at pains to point out the actual value of this substance. First, then, it causes a sensation of warmth in the stomach; it strengthens the heart's action and the circulation generally,-in short, it acts as a stimulant rather than an article of food. In its action it is allied to tea and coffee rather than to the meat whence it is derived. Those familiar with meat extract know that it consists in considerable part of salts, such as are actual constituents of the animal frame, and in this respect, wherever these salts are deficient, as in rickets, the use of meat extract may be supposed to be beneficial. So, also, in cases of sickness will the solution of extract properly flavoured prove of value as a stimulant, in the same way that a glass of wine will enable a man immediately after he has taken it to do what he was incapable of doing before. But however useful in debility, it is now a wellrecognised fact that wine is not food, and so with meat extract. We have already pointed out what we considered to be the proper place of extract of meat as an ordinary article of dietviz., to give taste and relish to a mass of nutritive but insipid material; we now seek to enforce the same view as to its medicinal application. Patients will swallow large quantities of this extract thinking they are imbibing nutriment proportional to the quantity of meat employed in manufacturing the extract. A patient may be swallowing several ounces of extract daily and yet be actually starving; he may feel better for it, but his strength will not return, except he can swallow something else as well. It is needless to point out the importance of this fact to practical men. It carries its own application with it. No patient should be allowed to pass through an illness with this alone as nutriment, except it be subsidised by the addition of other more nutritive material. A bone added to it and boiled in it for a time is a great improvement; thickened with corn flour (not starch alone) it is most valuable; by itself, it is not

to be trusted. If these facts be borne in mind, we shall have done good service in again directing attention to Liebig's extract of meat.

THE WEEK. TOPICS OF THE DAY.

TUESDAY'S Gazette contains the announcement that the Queen has been graciously pleased to give orders for the appointment of Alexander Armstrong, Esq., M.D., Director-General of the Medical Department of the Navy, to be an Ordinary Member of the Military Division of the Second Class, or Knights Commanders of the Most Honourable Order of the Bath; Inspector-General of Hospitals and Fleets Charles Abercromby Anderson, M.D., and Deputy Inspectors-General of Hos-pitals and Fleets Richard Denton Mason and David Lloyd Morgan to be Ordinary Members of the Military Division of the Third Class, or Companions of the said Most Honourable Order; and Deputy Inspector-General of Hospitals William Campbell Maclean, M.D., Professor of Military Medicine in the Army Medical School at Netley, to be an Ordinary Member of the Civil Division of the Third Class, or Companions of the said Order. We congratulate the Director-General of the Navy Medical Department and the new Companions of of the Most Honourable Order on their well deserved honours,

The members of a deputation from the Poor-law Medical Officers' Association, on the recent changes in the arrangements for public vaccination, who were received by Mr. Forster on Saturday last, have displayed a perseverance which is in the highest degree praiseworthy. They have at last obtained a hearing and a reply. They first applied to the Privy Council, and were thence politely referred to the Poor-law Board. At a considerable loss of time and trouble they obtained an interview with Mr. Stansfeld. That gentleman listened to what they had to say, and then told them they had better again apply to the Privy Council. This time their application was effectual, and they have obtained a confession from Mr. Forster that the new system inaugurated by the Privy Council has provided the country with too few vaccinators, and that in the Bill which he had brought before Parliament a clause would be introduced which would permit Poor-law Medical Officers to act as public vaccinators. Of course, Mr. Forster maintained that the new system of one vaccinator in a district was in general better than the old one of several, although, in a large population like that of St. Pancras, it had been found that the number of vaccinations had greatly decreased since the old vaccinators had been dismissed and a single new one had taken their place. For ourselves, we have no hesitation in saying that working women are more likely to take their children to be vaccinated if they can get it done within a short distance from their houses, than if they have to walk two or three miles for the purpose. In London and our large towns, a supply of fresh lymph can be easily kept up with care in a comparatively limited area—say one yielding 500 births per annum. That a large vaccination station does not necessarily supply pure lymph, is proved by the recent outbreak of vaccine syphilis which Mr. Hutchinson has brought to light. The vaccinifer was here selected at one of the largest vaccinating stations in the metropolis. At any rate, in the face of the present epidemic of small-pox, to diminish the number of vaccinating stations in order to carry out a theoretically more perfect system, is a policy on the absurdity of which it is unnecessary to dilate.

We regret that we cannot report further progress this week in the formation of the Conjoint Examining Board. It is believed, however, that the new difficulties which seem to have been raised will not prove insurmountable.

Dr. Richardson, in continuing his researches on the physiological action of the light hydrides, has recently succeeded in

rendering one of the series applicable for the production of general anæsthesia, and has administered the vapour of it to the human subject, for short operations, twice during the present week, and with marked success. He proposes to call the substance hydramyle. We shall shortly have from him a full account of the action and administration of hydramyle for the further information of our readers.

June 24, 1871.

A case of child murder has recently been tried before the High Court of Justiciary at Edinburgh, and the prisoner, the mother of the two children murdered, has been acquitted on the ground of insanity. The case is an important one on several grounds. Professor Laycock and Dr. Heron Watson gave evidence in favour of the prisoner's non-responsibility, and the same view was taken by the other Medical men engaged in the case. The prisoner was a poor woman named Eliza Sinclair. She had been charged with pilfering in a shop; she went home, wrote a somewhat incoherent letter to her husband. killed two children by cutting their throats, and ineffectually cut her own throat. Evidence was given to the effect that she had been weakened by twelve months' lactation, and by a vesicovaginal malady. It was also known that there was an hereditary tendency to suicide in her family. She had also been the subject of nocturnal epilepsy and somnambulism. But neither of these latter facts could be proved at the trial, on account of some peculiarities in Scottish law. Sir James Moncrieff, the Lord Justice Clerk who tried the case, placed it before the jury in a manner which cannot be improved on by us. We therefore append the principal of his remarks :-

"If the jury should be of opinion that the woman went for the purpose of theft to the shop referred to, and that, being detected, she went home in an agony of despair, and resolved to take her own life, and not to leave her children behind her; if that was the state of mind in which she was-however lamentable, and however much her mind might have been lamentable, and however much her mind might have over overbalanced by the sense of shame and dread of detection— he had to state his own opinion that that did not amount to a case of insanity, or anything like it. If they came to be of opinion that such was the case—it certainly approached very nearly indeed to that state of the fact, apart from the matters he was now going to call their attention to— that would not be sufficient to support the plea of in-sanity. When the Doctors spoke about a man's uncontrolled impulse, they did not mean an impulse which his mental constitution was not strong enough to combat with, but an impulse which, through mental disease, he had not the power of controlling; and therefore, before a case could be brought under motivating; and therefore, before a case could be brought under that category, mental disease must be proved. The question was whether she was of so unsound mind as to prevent her leaving the power of resisting the criminal impulse when it occurred. He thought it had been proved quite sufficiently for the purpose of the principal control of the property of the pro the slightest trace of mental excitement from that time the signose trace of mental extended that the gravity they should keep in view in Judging the mattern of great first place, it was a murder of her own children without any impulse, as far as they could see, of the ordinary passions, suid that, in a question of same or insane mind, was of the last impulse. portance. It was also proved by Medical men that such paroxysms, although they did not generally, yet sometimes came and went with great rapidity; and, out of sight, the most important piece of evidence for the prisoner was the letter which she wrote to her husband in that agony of despair about the accusations made against her. While it indicated her the accusations made against her. While it indicated her determination to put an end to herself, she spoke of her children as if they were to survive. It was unquestionably indicative of great excitement, and if showed an incoherency which was consistent with an insane mind. The impulse must undoubtedly have been sudden, and the jury would judge whether it was or was not proof of unsoundness of mind.

Dr. Frederick T. Roberts has been appointed Assistant-Physician to the Brompton Consumption Hospital. The vacancy has been occasioned by the retirement of Dr. Marcet. who, we believe, intends to practise at Nice.

Mr. John Netten Radeliffo has resigned the Secretaryship of the Epidemiological Society, and he is succeeded by Dr. Corfield, Professor of Hygieno in University College.

VACANCIES AT ST. THOMAS'S HOSPITAL.

THE Governors of St. Thomas's are to be congratulated upon the prospect of securing the services of such able men as the five Physicians and Surgeons recommended by the Grand Committee during the past week for election by the General Court. Certainly three of the smallest Hospitals in London have furnished this contingent, and they must suffer severely in consequence of being deprived of the services of some of the most prominent members of the Profession. Drs. Murchison, Harley, and Payne deserve well this distinction, as accomplished teachers and good Physicians. Dr. Murchison will no doubt draw students to St. Thomas's. His clinique will be sure to command a large audience. We have already expressed regret at the supposed necessity of going outside the Hospital for the Surgical staff, knowing what good material they had among their own men. We are glad to see that the Grand Committee are of the same opinion as respects the past services of Mr. Croft. This gentleman has filled with much ability the office of Resident Assistant-Surgeon during ten years of a very trying time in the history of St. Thomas's. He has now passed through the grade of Assistant-Surgeon, and no doubt well deserves the distinction which is now awaiting him. If we are to admit that it was desirable to go ontsido the Hospital for the Assistant-Surgeons, we think the Governors can have no hesitation in confirming the selection of Mr. Mason and Mr. Arnott, both of these gentlemen being Surgeons of great promise. There were about a dozen candidates for the two vacancies. We believe the Hospital staff unanimously and vigorously supported their own men. The vacancy occasioned by the promotion of Mr. Croft will not be announced for some time yet; probably not until the Hospital is in thorough working order. Those who have been expecting promotion for some time at St. Thomas's are no doubt disappointed that they should have been passed over for the present, but we must remind them that the infusion of new blood has been promised for many years. They will no doubt be more successful next time. On the whole, we must commend the action of the Grand Committee.

SAILORS' HOME AT BOMBAY.

It so happened that we lately took up the Builder of October 15, 1870, and observed a sketch and ground plan of the building intended for the Sailors' Home at Bombay. The plan presented such serious sanitary defects to our eyes, that we were glad to see that at the above date the building had not been commenced, owing to some difficulties about the site, and we hope that there may yet be time to reconsider and modify its details. The south-east wing, according to the plan, contains, on the same level, dormitories for the healthy and the Hospital for the sick, communicating by a verandah, which forms the approach to the lavatories and earth-closets, common to both, in the rear. The use of the same lavatories and earthclosets by the healthy and sick would render utterly impossible that amount of isolation of the latter which, particularly in such a climate as that of India, is essential for the prevention of the spread of contagious diseases. We observe that the Guicowar of Baroda, in commemoration of the late visit of the Duke of Edinburgh to Bombay, has alone contributed £20,000 towards the expenses of the building; hence all the more reason, for the credit of English sanitary science, that care should be taken to avoid such an obvious infringement of elementary hygicnic principles.

TESTIMONIAL TO MR. PAGET

We are informed that a testimonial to Mr. Paget on his resigning his appointment at St. Bartholomew's Hospital is projected. So universally is this gentleman esteemed, that it is unnecessary on our part to do more than draw our readers' attention to the subject. Subscriptions will be received by Dr. Black, who has kindly undertaken to act as treasurer, or by Mr. Alfred Willett and Mr. John Langton, the honorary secretaries.

QUEEN'S UNIVERSITY IN IRELAND.

A MEETING of the members and Senate of this University was held on Tuesday, June 20, in Dublin Castle.

Sir Dominick Corrigan was elected Vice-Chancellor in the room of Sir Maziere Brady, deceased,

The following degrees in Medicine and Surgery were conferred by the Most Hononrable the Marquis of Kildare, Chancellor of the University :-

"Doctors in Medicine.—Samuel Agnew, B.A., Queen's College, Belfast; Hazlett Allison, do. do.; Robert Blood, do., Galway; D. Graham Browne, B.A., do., Belfast; Wm. Richard Browne, D. Grinham Browns, B.A., do., Belfast; Wm. Richard Brownie, do., do.; Vm. Burke Cuppage, do., do.; Jm. Burke Cuppage, do., do.; James Dawsen, do., Cork; Benjamin Derham, do., do.; Thomas Derham, do., do.; A Thomas Derham, do., do.; A Lettander MacLeo Hamily, and the state of th do., Cork ; Ebenezer Sloane, do., Belfast ; Samuel John Smith. do., do.; John Wilson Steele, do., do.; John Woodrow Watson, do., do.; Alexander M'Cook Weir, do., do.; John Wilson, do., do.; John Bower Wilson, do., Galway; Joseph Wilson, do., Cork; Alexander Young, do., Belfast.

Wilson, do., Cork; Alexander Foting, do., Bellast. Master in Superp.—Win. O'Relly, Robert Blood, nox, Junes-Laurence, Robert M'Bride, James M'Carthy, John M'Coungley, George H. M'Swinney, Wes Kirkpatrick Murphy, S. Rev-Philips, Robert Riddell, Wm. Rutherford, Richard Ryan, J. Wilson, Steck, J. Woodrow Watson, Juseph Wilson, and Alex.

Young.

The degree of Doctor in Science, henoris coust, was also conferred on Professor Wyville Thompson.

UNIVERSITY OF DUBLIN, -SCHOOL OF PHYSIC IN IRELAND. THE Senior Medical Exhibitions, given annually by the Professors, have been awarded this year to Mr. Jacob O'Conner and to Mr. Patrick Molony.

TESTS FOR QUALIFICATIONS OF MEDICAL CANDIDATES.

THERE are seven vacant offices in connexion with the Children's Hospital and the Hospital for Women, in Birmingham, to be filled. There are fourteen candidates. The Birmingham Daily Post, in an article on Tuesday last, offers some advice to the governors to assist them in forming a proper choice of the candidates. This advice amounts in brief to the all but complete rejection of the testimonials of "partial friends and old teachers." There are some exceptions, however, to this, one being that the candidate had been the first, or one of the first. men of his time in a distinguished school, numbering, perhaps several hundreds. The first man in such an institution is very probably one of the most industrious and gifted in his Profession. The writer in the Post thinks the obtainment of prizes by a candidate a high recommendation of him. It may be or may not be so, as we stated last week; an opinion also entertained by Professor Huxley. We quote the following remarks from the Post, as these are very pertinent to the matter :-

"The next point that should attract the scrutiny of governors is the fact of a candidate having been previously a holder of office, or otherwise. If he had been fairly elected to a post of

responsibility, and had performed its duties with fidelity in the opinion of competent and veracious persons, he has given a ledge that he is not unfit to enter ou other public functions. pledge that he is not unfit to enter on other public innersons. The earlier a man is in harness, so much the sconer he gets accustomed to the strong parc of public life—the sconer he acquires knowledge and aptitude in using it. The last consideration we would urge is one of great weight, but less generally applicable than those already stated. Has the candidate done anything of note? Has he written papers of merit? Has he been an acceptable teacher? Has he, in short, contributed anything to existing knowledge, or to the instruction of novices? This test is, we repeat, not generally applicable, but where it can be applied it is the most valuable of all. A candidate who has been great as a student, great as a graduate candidate who has been great as a statem, great as a graduate of fellow of his college, great as a public officer, may have done nothing with all his gifts and opportunities: while another, starting with a bad education, and left out of notice by the dispensers of patronage, may have done enough to put all mankind under obligation. These men are not wont to have due honour done to them in such contests; but this springs from an inadequate appreciation of the value of good work, which is, after all, the real stamp of a man's worth. Much more might be said on these topics, but we have adduced enough to prove that the means of coming to sound inferences relative to the merits of claimants for Medical appointments are at hand, if governors choose to employ them. contests, those who have won great races are the favourites in subsequent matches; the anxious sportsman asks only about 'public form.' In such lists as those about to be opened in the Hospitals, let public form take the place only too frequently accorded to private favour.

But does not all this show how very unsatisfactory is the present system of electing Medical officers to public institutions? The subject is one surrounded with difficulties; but no plan that could be suggested would be worse than placing the election in the hands of a large body of governors, who are canvassed, worried, and, it may be, occasionally cajoled in favour of a candidate. The caudidate himself is placed in a humiliating position, is put to large and unnecessary expense and trouble, and may see a much inferior man at the head of

the poll.

MEDICAL MATTERS IN AUSTRALIA.

Coroners' Duties .- Respecting the ministerial duties and remameration of coroners, says the Australian Medical Gazette, the Governor in Council of Victoria has recently made the following (among other) regulations :- "Where the minister is of opinion that, upon the holding of any inquest, Medical evidence has been called in, or a post-mortem examination ordered by any coroner or deputy-coroner without sufficient cause, such coroner or deputy-coroner shall not be entitled to a fee for such inquest,"

An Action against a " Herbalist." - In the Melbourne County Court, on March 20 last, Mr. J. W. Evans sued Mr. William Frith, formerly quarryman, now "herbalist," who has practised at Brunswick for a number of years without having any qualification, or even the semblance of a Medical education, for injuries caused by the defendant to the plaintiff's wife. It appears, from the evidence, that in 1868 Mrs. Evans, who was then suffering from the symptoms of uterine disease, at the persuasion of a female friend, placed herself under the treatment of the defendant. He then examined her, and said she was suffering from ulcerated nterus, which he could cure. She was under his treatment at different intervals of time, up to October, 1870. At various times he stated that she was suffering from inflammation of the bladder and ulcerated uterus, which sometimes, he said, was caused by weakness. At one consultation he ordered her to take as much as two bottles of stout a day, and also brandy with egg beaten up in it; at another, he blistered her; at another, he ordered coldwater bandages; and on many occasions he employed caustic. When examining her, he on several occasions used the speculum, which caused her intense pain and agony. Mr. Evans stated that altogether he had paid some £60 or

£70 to the defendant for attendance on his wife. Tracy, who was examined, said Mrs. Evans went to him in November last, and described the symptoms of uterine disease. On examining her, he found that her disease was a tumour existing in the back part of the left side of the uterus. The tumour might have existed for a year or two at least. When he was told of the number of times on which the defendant had used the speculum, he was much surprised, as he did not think any man would have dared to use that instrument unless he had undergone a thorough examination as a Medical man and was fully qualified. The defendant, in reply to the Judge, said that he had got his knowledge of diseases from nature and from his practice. The Judge gave a verdict for the plaintiff, damages £100, with costs.

Phthisis .- A fierce controversy is going on at Melbourne, between Mr. William Thomson, L.R.C.S. Edin., and Dr. Bird, as to the prevalence of pulmonary consumption in Victoria; the controversy, like all others of the class, is carried on with considerable bitterness. Mr. Thomson states that 2163 deaths from phthisis had occurred in five and a half years in a population of 170,000. This, he properly observes, is a high ratio, "showing almost beyond the need of further comment the extent to which the disease prevails in this part of Australia." The above statistics are called into question by Dr. Bird and the Australian Medical Journal, who find fault with them and consider the number greatly exaggerated. It appears to us, however, taking all matters into consideration, that consumption is much more prevalent in Australia than is generally supposed.

PARLIAMENTARY .- LUNATIC ASYLUMS-LIFE ASSURANCE-LUNACY REGULATION AMENDMENT BILL-THAMES EMBANKMENT-VACCI-NATION-SMALL-POX--CHARITIES EXEMPTION BILL.

Ox Thursday, June 15, in the House of Commons, in answer to Mr. Verner.

Mr. Stansfeld said he had made inquiries into the statement that had appeared in the Globe newspaper to the effect "that the new guardians of Kensington had been making discoveries at the Lunatic Asylums, and had found that at least one person had for a long time been confined, of whom there was good ground for believing that he was never a lunatic," and, as far as his information went, there was no ground whatever for it. The information, however, was not quite conclusive on the subject, and therefore he had directed that further inquiries should be made.

The Life Assurance Companies Act (1870) Bill was read a second time.

On Friday in the House of Lords

The Lord Chancellor, in moving the second reading of the Lunacy Regulation Amendment Bill, explained that its object was to afford protection to persons who were temporarily afflicted with imbecility. On more than one occasion he had experienced a difficulty in dealing with such cases, because the persons were not so bad that a commission of lunacy should be issued. Under this Bill the Lord Chancellor would have power to deal with the management of the property of such persons, and to secure its temporary character the Bill provided that no order should be made for a longer period than six months. By one clause it would be necessary for the Commissioners in Lunaey to visit each patient twice a year, and at such other times as the Court should appoint.

The Bill was read a second time. In the House of Commons,

On the motion of Mr. Gladstone, a Select Committee was prointed to inquire whether, having regard to the various rights and interests involved, it is expedient that the land rights and interests involved, it is expecient that the land reclaimed from the Thames, and lying between Whitehall-gardens and Whitehall-place, should, in whole or in part, be appropriated for the advantage of the inhabitants of the

metropolis, and, in such case, in what manner such appropria-tion should be effected.

On Monday, in the House of Lords, Lord Buckhurst moved for the appointment of a select committee to inquire into the present state of the law as regards vaccination.

Earl De Grey suggested that it would not be altogether desirable to undertake at the present period of the session the inquiry by a select committee. Questions connected with that subject had been inquired into by a select committee of that subject had been inquired into by a select commission in the other House, whose report, he believed, had been published, although the evidence it had taken had not yet been made public. Upon that report a Bill had been founded and intro-duced into the other House by the Vice-President of the Privy duced into the other House by the vice-like ourse, come Council, and that Bill, he trusted, would, in due course, come no to their lordships. The Bill dealt, at all events, with one Council, and that Dill, no translation and provided in the probability of the Bill dealt, at all events, with one of the questions on which the noble lord had touched—namely, that of securing throughout the country the appointment of inspectors of vaccination, who should ascertain the manner in which the law was carried out. At present, boards of guar-dians had the option of appointing or not appointing such officers, and in very many cases the due appointment of them had been neglected. The Bill to which he had referred would meet that state of things by making obligatory that which was new voluntary. The object of the Privy Council was to see vaccination carried out in the most efficient manner, and it was their earnest desire that the utmost facility, consistently with insuring a supply of good matter, should be given to the public for having their children vaccinated. He would suggest to the noble lord that he should postpone his motion until the Bill on that subject came up from the other House.

Lord Buckhurst, after the explanation just given, had no

hesitation in withdrawing his motion.

In the House of Commons,

The Life Assurance Companies Act (1870) Bill was read a third time, and passed.

In the House of Commens, on Tuesday,

In answer to Mr. E. Turnor,

Mr. Bruce said it appeared to be true that a person named Dexter, who kept a milkshop, was guilty of the imprudence of serving a customer while she herself was suffering from smallpox. The 35th section of the Sanitary Act of 1866 enacted that any person subject to a dangerous infectious disease who exposed himself without probable cause in any public place, street, or public conveyance should be liable to the penalties imposed by the Act. The magistrate held- and he thought street, of public conveyance secure or insore or the presence and imposed by the Act. The magistrate held—and he thought rightly held—that a shop was not a public place within the purview of the Act; but he thought the Act might be very usefully amended and enlarged so as to include shops.

The Charities, etc., Exemption Bill was rejected on the

second reading by a majority of forty-eight.

OPENING OF THE NEW ST. THOMAS'S HOSPITAL BY HER MAJESTY THE QUEEN.

AFTER a week of the most unsettled, tempestneus weather, her Majesty the Queen, by her usual good fortune, secured for the authorities of St. Thomas's a bright and genial morning for the opening of the new Hospital. That her Majesty should have left her quiet retreat in the Highlands for the purpose of presiding over this ceremony, must assure her subjects that she continues to take the same lively interest in works of philanthropy and public charity as during the earlier part of her reign.

Onr readers will, ere this, have been made acquainted with the details of the opening ceremony through the medium of the

daily press.

We have, on various occasions during the progress of the works, minutely described the principal architectural features of the building, with more especial reference to the sanitary arrangements. The scaffolding removed, and the building completed, we can now form a better estimate of its probable usefulness. We recommend our Professional brethren to take an early opportunity of inspecting this noble range of buildings— the Royal Hospital of St. Thomas. The situation is excellent. The broad façade of the river front provides ample breathing-space for the poor patients. That a large Hospital is space for the poor patients. That a large Hospital is needed in this locality there can be no doubt. Lambeth is one of the most densely populated districts of London. Guy's is the only other Hospital on the Surrey side of the Thames. The contingent of unfortunate sufferers who flock to our eleven existing general Hospitals is proportionately on the increase, or rather appears in an increasing proportion, as the proper management of such a vast city and provision for the destitute becomes a mere complex question. We know too well how comparatively scanty and insufficient is our Hospital accommodation. Londoners may be deservedly proud, however, of the large amount of gratuitous relief afferded to the sick poor through the various channels of usefulness. While speaking

through the various channels of usefulness. While speaking of our general Hospitals, we must not forget to mention the numerous special Hospitals distributed over the metropolis. The "stamping out" principle is now the order of the day, and it is a satisfaction to us to be able to congratulate the authorities of St. Thomas's npon the completion of a Hospital specially constructed to isolate infectious diseases and to prespecially constructed to isolate infectious diseases and to pre-vent them from spreading to other parts of the Hospital, Replying to the address at the opening ceremony, her Majesty refers in gracious terms to the advantages of this system of block isolation as follows:—

once isolation as follows:—
"It gives me pleasure to recognise in the plan of your buildings, so carefully adapted to check the growth of disease, ample and satisfactory evidence of your resolution to take advantage of the best suggestions of science for the alleviation of suffering, and the complete and speedy cure of the sick and

The most effective part of the ceremony on Wednesday last was that in which her Majesty conferred the honour of knighthood upon the Treasurer of the Hospital. After the address, Viscount Sidney, the Lord Chamberlain, at the command of the Queen, summoned Mr. Hicks to kneel before his Sovereign. Those who were fortunate enough to command a view of the central hall and raised dais witnessed with evident satisfaction this gracious token of her Majesty's interest in the welfare of St. Thomas's-a fitting recognition of the laborious services and painstaking energy of the Treasurer of the Hospital. We congratulate Sir Francis Hicks upon this well-carned and honourable distinction. Those who know what an amount of gratuitous work the Treasner has undertaken in the interest of the Hospital will understand somewhat the difficult position in which Sir Francis has been placed. Though we have felt it incum-bent upon us to criticise and dissent from the recent decision to exclude St. Themas's men from promotion to the staff, by refusing to even recognise them as eligible caudidates for the vacant appointments, we must admit the Treasurer's distinction between constructing a staff and promoting to the staff. believe that St. Thomas's men may expect to have the support of the House Committee when other vacancies occur. We credit Sir Francis with an earnest desire for the welfare of this Royal Hospital.

We believe the Profession at large welcome the restora-tion of this time-henoured institution, and its transfer-ence, after a lapse of ten years, from the vicinity of her twin sister Guy's to the more noble and iudependent posi-tion on the Albert Embankment. Sensational journalism tion on the Albert Embankment. Sensational journalism might have headed this article with the following startling announcement:—Brilliant and sencersful operation by the S. E. R.—severance of the twins, St. Themas and Guy; or, according to the Standard nonzenclature—operation for the severance of uoino, "westling from coalescence of the lateral halves of parts which should remain distinct."

After all the quarrels between Guy's and St. Thomas's, we want to be a support of the lateral parts of the parts of the graves of the support of the start of the support of the supp

have no doubt that this operation, which has taken ten years to complete, will prove beneficial to both of these rival insti-The last connecting-link will be severed by the removal of the administrative department from St. Thomas'sstreet to the first wing of the new Hospital. Our readers will remember that when the Siamese twins last visited this country it was with the object of being separated, and a gradual process of severance was suggested and seriously contemplated as the only possible chance of obtaining a successful result.

The old students gift to the new St. Thomas's Hospital is a bust of Mead and one of Cheselden, by Mr. Weekes, R.A.

The busts are placed on serpentine columns

MRS. SARAH ANNIE WIGLEY, who keeps a private seminary at Leicester, was fined 20s. by the magistrates of Leicester, last Friday, for neglecting to have her child vac-cinated. She declined the entreaties of the mayor to pay the

fine, and was committed to gaol for ten days.

THE abstract of the Census returns for the United Kingdom shows that the population on April 2 last amounted to 31,465,480, in the following proportions:—England and Wales, 22,706,108; Ireland, 5,402,759; Scotland, 3,358,613. This is an increase on the returns of 1861 for England and Wales of 2,637,884, being 1,264,144 males, and 1,373,740 females. The population in England and Wales is divided into 11,040,403 males, and 11,663,705 females. The religious census in Ireland shows that of the population of 5,402,759 the Roman Catholics number 4,141,933, the Protestant Episcopalians 683,295, the Presbyterians 558,238, and other denominations 19,283.

DR. GUY'S LECTURES AT THE COLLEGE OF PHYSICIANS,

ON WAR IN ITS SANITARY ASPECTS.

Dr. Gry delivered a course of three lectures on the above subject at the College of Physicians, on Wednesday, the 7th, Friday, the 9th, and Tuesday, the 13th inst., at 5 p.m The period selected by the lecturer for the illustration of the subject was the twenty-two years from 1793 till 1815the close of the great international struggle which followed the French revolution. In his introductory observations, Dr. Gay gave an able historical sketch of the many important engagements which, during that eventful period, shed such lustre on the British arms, and which, notwithstanding the enormous cost of men and money at which the various successes were attained, procured for England compensating advantages, which we to the present day enjoy. The era which followed, though marked by a sincere desire for peace on the part of this country, and distinguished by a decided progress in all the arts of civilisation, was yet chequered by so many wars, and the occurrence and so amazing in their results, that we must acknowlodge that war is as natural to mankind now as it ever has been, and that the study of all the subjects connected with it is still a matter of national importance. The study of war naturally divides itself into two heads-ermaments and men. It is only with the latter that, as Physicians, we have anything to do. The experiences of peace in all hygienic matters are of considerable value, as illustrative, by contrast and comparison, of the circumstances affecting the health of soldiers and sailors engaged commissiones ameeting the health of solutions and sulfors engaged in active warfare. Over-crowding in shops, warehouses, factories, dwellings, and Hospitals, the use of impure water, and the insufficient supply of food, particularly of its vegetable elements, have in civil life borne such disastrous results-in epidemies, and the general deterioration in health of the persons submitted to such influences—that it is no matter for wonder that, when supplemented by the circumstances of war, their results should be immensely aggravated. The lecturer illustrated the immediate and remote effects of over-crowding by many well-known instances, from the Black Hole of Calcutta down to modern times, and for more detailed evidence on the same subject referred his hearers to the course of eight lectures which he delivered last year at King's College, and to his previously published paper on the health of printers in London. previously promined paper on the neath of printers in London. The second lecture was devoted to a statistical comparison between the navy and army, as respects losses by battle and sickness. The subject was illustrated by tables selected from those compiled by Mr. Hodge. While, in both services, from nose complied by Mr. Hodge. While, in both services, the mortality by disease immensely exceeds that caused by battle, the advantage, on the whole, is considerably on the side of the navy; the general result of a series of observations extending over many years of war being, that in the navy the losses by sickness and battle averaged 80 per 1000 annually, while in the army they amounted to 111.

white is the army they amounted to 111.

In the thrid lecture it was shown that this smaller in the thrid lecture it was shown that this smaller in the thrid lecture it was shown to be the present day, as illustrated by a comparison of the returns of the crates of sickness and mortality of the whole navy and army in the year 1868. In the former the rate of sickness per 1000 was 48, and of deaths per 10,000 was 88; while, in the army, the respective rates were 47 and 148. The history of warfure shows that our soldiers and sesumes have history of warfure shows that our soldiers and sesumes have enemy. Lord Howe's great victory was followed by an out-break among his crews of contagious fever, communicated by the French prisoners. Similar instances are numerous of disease being imported by soldiers returning from foreign expeditions; among others, the outbreak of fevers among the troops at Newport, fals of Wight, in 1769, on their return from expeditions; among others, the outbreak of fevers among the very chargest form, and at that early period demonstrated the immense advantages of the hut or tent Hospital system, which, in modern warfare, is now completely established. The spread of epidemics by armies was an ever-recurring and much-order of the state of the proper of the parameter of mediteral warfare, and still, even under our improved circumstances, furnishes cause for anxiety. In the various resource of science and art, introduced chiefly by

the Medical Profession for the rollef of the sufferers in war, and showed how the labour of Ambrose Paris, Woodall, Brecklesby, Howard, Jenner, Captain Cook, Sir George Baker, and a host of other worthies had contributed to the result that our army and navy entered upon the war period selected as the text of his lectures in a state of efficiency very much superior to that of the enemies they had to meet. The lecturer summed up with a reiterstion of the importance of maintaining by all our efforts the sanitary condition of the whole country, condument of our soldiers and sulices under all circumstances. At each lecture there was a large and appreciative audience, among whom were several military Medical officers.

SMALL-POX RETURNS OF THE ASSOCIATION OF MEDICAL OFFICERS OF HEALTH.

New Cases of Small-pox occurring in the Public Practice of the

				No. of Cases week ending									
Distric	ta.		May 13.	May 20.	May 27.	June 3.	June 10.	June 17.	June 17. Sent to Hospital.				
West-			٦										
Chelsen .				16	7	12	2		P .	_			
St. George, H:	nov	er-sq.		11	9	15	17	21	10	5			
St. James, W	(-stan	inster		8	4	3	8	. 1	ő	6			
Paddington North-	٠		•	24	15	19	?	?	2	_			
St. Paucras				101	117	116	113	77	68	-			
Islington .				59	42	50	36	52	35	17			
Hackney . Central-			•	18	28	17	25	20	1	_			
City of Londo	n			13	111	8	1.7	1 10	12	1			
St. Giles-in-t	he-	Fields		ô		5	1		5	_			
Holborn .				13	1 10	- 5	8	6	9	9			
St. Luke's East—			•	13	17	12	13	13	16	14			
Whitechapel					23	13	5	18	9	. 5			
Poplar . South-	٠	•		1	11	14	1 5	1	?				
St. Mary, New	ing	on		28	29	30	35	36	24	21			
St. Olave, Sou	thw	ark		2	2	5	5	2	1	1			
St. George-	the-	Marty	r.		ű.				1	1			
Southwark			i	28	1 8	?	1 5	. 9	9	-			
Lambeth .				1 ?	26	24	22	23	9	1111			
Clapham .					16	6	14	11	5	3			
Wandsworth					1	5	6	2	P	-			
Streatham				. 1	P	2	7	3	2	_			
Lewisham		,		. 8	9	9	6	1 8	9	_			
Camberwell				2	45	P	9	41	32	16			
Greenwich				9	12	9	2	9	2	-			
Plumstead			Ī	6	6	5	4	6	F	_			

THE Medical Officer reported to the Vestry of St. Martin's-in-the-Fields on Thursday evening that he found eleven persons of two families were living in one room in a court in the parish. The Vestry decided to proceed at once by law to put an end to such a fearful overcrowding.

HEALTH AND THE SPECTHOROUSE—An ingenious use of the spectrum analysis appears, by the Uparterly Journal of Science, to have been made. The case referred to is substantially as follows:—The water used by the inhabitants of a crowded court, amongst whom several cases of typhoid fever had appeared, was drawn from a rather shallow well, and was highly charged with various unoxidized compounds of nitrogen. It was suspected that, from some defect, the contents of a public unital obtained entrance to the well. The fact that the well-water continued seven times as much common salt as the normal water of the vicinity, was some confirmation of the snapierion. Trefessor Church obtained absolute proof by the following the continued of the snapierion of the snapierion. The continued are the continued are the continued of the continued and the continued of t

REVIEWS.

The Physics and Physiology of Spiritualism. By William A. Hammond, M.D., Professor of Diseases of the Mind and Nervous System in the Belvue Hospital Medical College, etc. New York. 1871. Pp. 86.

This little book appears at a very opportune period; for spiritualism, although it has not extended here to the enormous bounds it has reached in the United States, is gradually obtaining new disciples in England, including, we regret to say, a few men of high scientific reputation. Dr. Hammond begins by pointing out that there is an inherent tendency in the mind of man to ascribe to supernatural agencies those events which he cannot explain; that there always have been, and probably always will be, individuals whose love for the marvellous is so great, and whose logical powers are so small, as to render them susceptible of entertaining any belief, however preposterous it may be; and that there is a still more numerous class who, staggered by facts which they cannot understand, grasp at any hypothesis which may be suggested, rather than confess their ignorance.

The fact that multitudes may be simultaneously impressed with the same belief, is no guarantee that this belief is founded on reality. We all know that there are thousands of intelligent and well-educated persons who have received the miracles of the Roman Catholic Church—as, for example, the liquofaction

of the blood of St. Januarius-in full faith.

Animal electricity, which does not differ in any essential particular from ordinary galvanism, has been asserted to be the basis of spiritualism; but, says Dr. Hammond, "the idea that tables are moved, knocks made, and apparitions produced by the electricity of the body, is simply absurd." Reichen-bach's well-known experiments and his odic force are then noticed; and while there is undoubtedly a germ of fact in his investigations, there can be no question that, at all events in hysterical women, the principle of suggestion can be made to act with fully as striking effects as those produced by his magnets and crystals. "Hundreds of patients," says our author "affected with diseases of the nervous system, are susceptible to the operation of suggestion; and to the action of this principle many miracles and impostures owe the success with

principle many miracles and impostures owe the success with which they have been received. To it many of the phe-nomena of spiritualism are clearly due."—Page 17. Sleight of hand is a still more important factor in the pro-duction of spiritualistic manifestations. "A short time since," cays Dr. Hammond, "I havited several Medical and other says Dr. Hammond, "Intruct several medical and other friends to witness in my library some surprising spiritualistic exhibitions by a first-class 'medium.' The operator went through all the performances of the Davenport Brothers to the entire satisfaction of the audience. He was securely tied by a gentleman who had been an officer in the Naval Service, and who exhausted his strength and ingenuity in devising bands and knots. A screen was then placed in front of the medium, and in an instant an accordion was played, a bell rung, and a tambourine struck. The performer then requested that the screen might be removed, and on this being done he was found to be tied in precisely the same manner as at first. The gentle-man who had bound him declared that not a cord or a knot had man who had come and cenared that not a cord or a knot had been interfered with. In a second attempt the medium, tied with additional care, rang a bell, and was discovered intact in a second afterwards. The 'rapping' of this gentleman was perfect, and he read communications from the dead, made on perfect, and he read communications from to use, muse or didded slips of paper, with a skill equal to that of the most orthodox and highly-gifted medium. The astonishment of the audience was great when he informed them that all his performances were deceptions, which he then proceeded to explain in the most satisfactory manner.

The actor in this case was a Dr. von Vleck. We heartily

The actor in time case was a bit of which is would pay London a visit.

We have already remarked that nervous hysterical women are readily impressed by suggestions. Under this category must be classed persons suffering from natural somnambulism. and those who can be readily hypnotised by Mr. Braid's pro-cess. In illustration of this view, Dr. Hammond relates a very singular case, which, if it were shorter, we should transfer to these pages. It is that of a young lady whom he cured (by means of bromide of potassium) of natural somnambulism, but who subsequently (owing to excessive mental exertion) had a who acceededly (owing to accessive mental exercion) and a relapse, in which, besides natural somnambulism, she had the faculty of inducing the hypnotic state at will. Her process was to take up a volume of some philosophical work which she was then studying, select a paragraph requiring intense

thought, read it, close the book, fix her eyes steadily, but not thought, read it, cose the book, nx her eyes sceamin, but not directing the foci to any particular object, and then reflect deeply on the sentence she had read. From the reverie thus produced, she gradually passed into the hypnotic state, in which it was asserted that "she answered questions correctly, read books held behind her, described scenes passing in distant remi soons new beaming not, neserrous scene passing in distant places, and communicated messages from the dead. Assuming that the statements were true, she possessed, in every essential respect, the qualifications of either a chairroyant or a spiritualistic medium. But, alsa: when Dr. Hammond put her to the test, like Mr. Home in the presence of the St. Peterstein and the property of the propert burg Professor, she sadly broke down. Having satisfied him-self that she was completely hypnotised, he asked if there were any spirits in the room, and, in reply, she stated that the spirits of Socrates, of Plato, and of Schleiermacher were present. She was then asked if Schenkelfürst (an imaginary person who was mentioned as Schleiermacher's bosom friend) was not also present. For a moment she was silent; and then her face was lit up with a smile, and she exclaimed, "I see him." and proceeded to describe his person and dress, and how he embraced his philosophic friend. Bruno then appeared on the stage, and made a few remarks, which she communicated to her audience. It should be mentioned that she had read his life a few weeks previously, and was then studying Schleiermacher's "Introduction to the Dialogues of Plato."

To change the current of her thoughts, the Doctor asked her to tell him who would be his first patient on that day week, where her father then was, etc., and to these questions she gave answers which proved totally incorrect. The following gave asswers which proved totally incorrect. The following conversation then ensued:—"Where are you how?" "In New York." "No, you are in a vessel at sea; there is a terrible storm; are you not afraid?" Ou the suggestive theory, she at once replied, "Yes, I am very much frightened. What shall I do? "Oh, save me: save me:"

She wrung her hands, screamed with terror, and apparently suffered intensely from fear; and in the midst of this agitation returned to her natural condition. In this case the senses of touch and hearing were the only ones that were exercised, and they were not in any degree exalted; but, conjointly with integrity of touch, there was inability to feel pain. While there was no correct indgment and no volition, imagination, reverie, the emotions and the faculty of being impressed by suggestions

were present in a high degree.

From the careful study of this and similar instances, Dr. Hammond is convinced that hypnotism differs from true somnambulism, and is a mixed result of hysteria, catalepsy, and eestasy, each of which states, as he proceeds to show, suffices to account for many of the phenomena of spiritualism.

Again, persons occasionally come under the notice of the Physician who have the power of voluntarily producing hallu-cinations of various kinds—a dangerous faculty to possess, because the time comes sooner or later in which they cannot get rid of their false perceptions. Several cases of this nature are described by the author, who believes that "on this principle can be explained many of the instances of spiritualistic hallucinations which have been detailed by inquirers willing to be deceived.

Upwards of twenty pages—abounding in most sensational narratives—are devoted to that remarkable alleged phenomenon narratives—are devoted to that remarkable alleged phenomenon of spiritualism known as "levitation," or the faculty of rising in the air against the force of gravity. There are without any external apparent agency, including saints, victims to witelerent, and avowed jugglers (especially in India, where the art has been practiced from the time of Apollonius where the art has been practised from the time or Apparatus of Tyans, who lived in the first century, to the present era). To which category Mr. Home, who lately failed most de-plorably at St. Petersburg in his attempt to rise, belongs, or whether he constitutes a special order, we cannot say. We suspect that Dr. Hammond is correct in his view that all the alleged instances of levitation may be explained by referring them to one or other of the following causes :-

(1). An hallucination on the part of the subject, or of those asserting themselves to have been witness (2). Unintentional exaggeration, misinterpretation, and in-

accuracy of statement. (3). Insufficient evidence.

4). Intentional mis-statement; or,

5). Legerdemain

Cases in which this mysterious force acts in the opposite direction are less common, and are probably unknown to most of our readers. Dr. Hammond has had under his personal care a lady who declares she cannot rise from her chair; and he records the appalling punishment that was inflicted in former times on the concubine of a rector, who imprudently sat down on the tomb of St. Osanna, and when she attempted to rise found that she stuck to her seat "in such a manner to rise found that she stock to her sear in such a manner that she could never be parted from it till, in the presence of the people who ran to see her, she had suffered her clothes to be torn from her, and had received a severe discipline on her naked body, and that to a great effusion of blood, and with many tears and devont supplications on her part.

There is nothing in this little book that unfits it for general perusal, and our Medical brethren would do well to recommend perusal, and our accuracy oretares a value a craving towards it to any of their patients who may have a craving towards this false religion.

GENERAL CORRESPONDENCE.

DR. STALLARD AND DR. GIBBON.

LETTER FROM DR. SEPTIMUS GIBBON.

[To the Editor of the Medical Times and Gazette.] Sm,-Dr. Stallard is wrong when he states that I was not Sing—197. Schilars is wrong when he states that I was not required to give any Professional opinion whatever as to the removal of a small-pox case. However, it is immaterial, for, whether required-ornel, I digit be that Medical and a sanitary opinion, which the learned Dottor, although he desires it, is certainly reported in the local journal to have critically expected in his certainly reported in the local journal to have critically expected in his

certainly reported in the local journal to have criticised in his place at the Board of Gardians in a style that elicited from one of his colleagues, a respectable butcher, the remark that "he (Dr. Stallard) had his knife in Dr. Gibben;" and from another colleague, "that it would be more creditable to him if, instead of making sensational speeches, he had gone and talked his complaints over with Dr. Gibbon." Moreover, he moved that the letter containing these opinions could not be considered

satisfactory.

If I am not trespassing too much on your patience in com-menting on this gentleman's opinions, I should like to observe that what he says are the just complaints of the guardians— i.e., of himself and one of the relieving officers—as to the sanitary arrangements of the Holborn Board of Works, are the most unfounded and unjust I have ever heard of. Patients in the Holborn district are for the most part removed to Hospital as soon as the disease is accurately diagnosed. Disinfection of rooms, etc., is thorough and effective, as proved by the fact that the disease has not spread. No fewer than four different kinds of apparatus are provided for disinfection. We have a conto appear the control of the control which can enter our long and narrow courts and alleys. As to reducing overcrowding in illegally occupied cellars, we have not done so simply because an additional inspector we have been employing for the last three months has found that it did

In conclusion, I will ask Dr. Stallard if he has ever seen my inspector or his assistant disinfect a room and the articles in it. I have good reasons for believing that, like the relieving officer who helps him to get up these just complaints, he has never witnessed the process. If so, I leave your readers to estimate the value of his criticism.

June 21. I am, &c., SEPTIMUS GIBBON.

LETTER FROM DR. J. H. STALLARD.

[To the Editor of the Medical Times and Gazette.] Sir,—Although Dr. Gibbon has shifted his ground, I do not intend to bandy opinions or facts with him. I merely wish to state that I took no part in the reduction of the number of public vaccinators, nor in the election of Dr. Norton. It will be sufficient to say that the be sufficient to say that the appointment of Dr. Gibbon as Vaccination Inspector did not work smoothly, and, in common with the whole Board of Guardians, I thought it better that a layman should be placed in that post. It was Dr. Gibbon's own fault if the manner of resignation was not as gracious as it might have been. I am, &c.,

7, King's-road, W.C.

J. H. STALLARD, M.B.

A PROPERTY × (1)

DR. SANSOM ON CHLORALUM. LETTER FROM MR. GAMORE.

[To the Editor of the Medical Times and Gazette.]

Sta.—I have read Dr. Sanson's comments on myself and chloralum in his work on "The Antiseptic Treatment," and ask you to afford me space for a brief statement and a few

ask you to afford me space for a brief statemen, and a minquiries.
So far as my claim to the introduction of chloralum into Medicine is concerned, Dr. Sansons might have noticed that all works on Materia Medica (without exception, so far as I have been able to discover) are silent on the subject. If anything is known, I should be glad of the information, and trust Dr. Sanson may favour me with it. My attention was first drawn to the compound by reading a description of St. Clair Deville's process for making attaining that it was long after this tits numerous applications in the arts and in Medicine dawned on ma.

on me.

Dr. Sansom may consider it very important to prove that I
was not the first to introduce the hydrated chloride of aluminium into commerce. Mr. Janee Dewar, of Edinburgh,
honoured me by reporting that he considered the idea of using
it as I had proposed amounted to a real discovery. Dr. Angus
Smith, who, as a man of science, loves truth above all things, wrote me last year that my suggestion as to the employment of chloralum as a disinfectant was to all intents and purposes novel. The name of the salt had been broached amongst aluminous antisepties, and the substance had been used experimentally in dressing calico to prevent mildew; but beyond this nothing was known of it.

I consider it of little moment to prove my claims to originality as compared with the vast objects served by showing up that which, at all events, no one can dispute was hidden from the

most advanced chemists and therapeutists.

Is chloralum a safer, a better, more economical and available antiseptic and disinfectant than carbolic acid? No one can have the slightest doubt on this point who has worked at the subject as I have done. Carbolic acid is so poisonous that it is unfit for general distribution as recently practised by sanitary inspectors.

Chloralum, as proved conclusively by many experiments of my own, and quite recently by Professor Haughton's, attacks and destroys offensively odorous matter and secretions which

are simply masked by carbolic acid.

Chloralum is a better antiseptic agent for the dressing of wounds and inflamed mucous membranes than carbolic acid. Mr. Lund noticed irritating effects from the use of an arr. Land dotteed tritating enteres from the west of improperly prepared specimen of elibratum which sacit strongly of chlorine. My brother, J. Sampson Gamere, of Birmingham, has fully demonstrated that I was justified in recommending the aluminic chloride as a dressing after Sangical operations, and he has drawn special attention to this

fact in his recent pamphlet on ovariotomy.

Whenever we have used obloralum mixed with specific contagions matter, such as that of the foot-and-mouth disease in cattle, the poison has been rendered harmless. It is un-doubtedly disinfectant in every sense in which a Medical man uses this word, and from the readiness with which it has found its way into general use by recommendation on the part of the most distinguished sanitary authorities in this country and abroad, it is quite certain that carbolic acid, chloride of zinc, chloride of lime, and other agents used as deodorisers and disinfectants, will be, to a large extent, supplanted by it in every-day life. Time has already amply justified me in all I published last autumn, and time must prove that I am not in the least exaggerating the capabilities of this agent on the present occasion.

I am. &c., JOHN GAMORE.

P.S .- If Dr. Sansom had command of hidden stores of knowledge on chloride of aluminium, how is it he favours us with so bald a statement as that he has published on it?

DR. PIERCE, the Mayor of Denbigh, has presented a new drinking-fountain to the town.

PHTHISIS AND DEATHS IN THE MELBOURNE HOSPITAL. -During the eight weeks ending March 25 last, fifty-two persons died in the Melbourne Hospital; fifteen deaths, or nearly 29 per cent. were caused by phthisis. The persons who died of consumption had resided 17, 17, 18, 7, 14, 1, 5, 10, 5, The persons who 9, 21, 2, 20 and 11 years respectively in Victoria, or an average of nearly 12 years each. The length of residence in the colony of one was not known.

REPORTS OF SOCIETIES. ROYAL MEDICAL AND CHIRURGICAL SOCIETY.

TUESDAY, JUNE 13.

MR. CURLING, F.R.C.S., President, in the Chair.

Mr. James Pager read a paper on "the Removal of Tumours from Bones." The design of the paper was to show the propriety of removing the majority of non-malignant tumours growing in bones by simple extirpation or enucleation rather than by resection of the bones or by amputation. It was shown that these tumous are as separate from the proper tissue of the bones as are fatty and most other innocent tumours from the connective tissue or other structures in which they grow; and that the same rules of operation are as applicable to the one as to the other set of tumours. Cases were given of successful enucleation of fibrous, mycloid, cartilaginous, and osseous tumours, and some rules were stated for the diagnosis of malignant from innocent tumours in bones, and of those which grow within from those which grow without the bones.

within from those which grow without the cones.

Mr. Faithe Clarke thought that this and Mr. Little's
paper on what might be called "Osteotomy" would have a
material influence on future operations. He reminded the
meeting of two cases in Symo's "Observations," in which the operation chosen for the latter showed a very material advance on the former. In the one amputation had been performed, in the other excision of a portion of bone merely; but here

we had a still greater advance.

Mr. Brekert said the paper reminded him of some of the earlier ones read before this Society. It did not afford much room for discussion, being merely a statement of facts. He would say that it had been the practice at Guy's for years to remove all innocent tumours from bone before having recourse remove an innecessive amours from some occurs awaing evocutive to amputation. This was especially the case with tumours of the lower jaw. He referred to one such case, and to one by Mr. Bransby Cooper, published in the Motical Gazette, which after removal partly returned; but the patient was again operated on, and lived long after perfectly well. In a case under Mr. Poland, that gentleman removed such a tumour by enucleation, which completely cured it In another instance a tumour probably fibro-plastic was enucleated, but perhaps imperfectly, for it returned, and amputation was had recourse to, after which there was no return of the growth.

Mr. T. SMITH had a case in which he operated thus, dependart. 1. cast it has a case in which he operated this, depending on Mr. Paget's judgment, as he would have preferred to annutate. The patient was a young woman, who suffered from pain and swelling of the upper part of the humerus. On examination, a pulsating tumour was seen, but there was no glandular enlargement. Mr. Paget recommended enucleation, and it was had recourse to, but not, perhaps, very effectually, as the incision was too small. After the operation she did fairly well for a year, when a protrusion from the cavity of the bone was detected and removed. Unfortu-

nately, she died of pleuro-pneumonia.

Mr. WEEDEN COOKE considered it worth while to ask if it was necessary to cut beyond a joint to save a patient's life in malignant disease of bone. He had seen cases where it

was not so, especially in the forearm.

Mr. BIRKETT said, with regard to Mr. Smith's case, that the Mr. BIRKET said, with regard to Mr. comin a case, that the principle laid down in the paper was to try enucleation of bony tumours. This principle they acted on at Guy's, and in accordance with it he would have tried the operation in such a case as that referred to.

Dr. () Connon briefly referred to a case of malignant disease of the claviele operated on by Aston Key and Sir Benjamin

Brodie.

Mr. Savony considered the most important point in such mr. Savour consucred the most important point in such cases was the diagnosis of the nature of the tumour. So in Mr. Smith's case he considered the question was whether the tumour was malignant or innocent. He thought it recurrent, and therefore advocated amputation. In cases where tubercle was deposited in bone, he thought it might often with advantage he removed by scooping. Some were opposed to this practice, because it would stimulate the formation of the tubercular material; but by wide removal of the affected tissues they might do well.

Mr. CROFT referred to the case of a man of middle age with a tumour of the radius, doubtful in its character. They out down to make certain, and found a spiculum of bone in the midst of a mass of fibroid tissue.

Mr. Pager desired to leave the operation to the test of experience. His design was merely to enforce that which was admitted by many, though under a kind of protest. The alternative he considered to be resection rather than amputation. But even that was accompanied with much inevitable damage to the limb, consequently enucleation was, where possible, to

be preferred.
Mr. T. Spencer Wells communicated "A Fourth Series of One Hundred Cases of Ovariotomy," with remarks on the diagnosis of uterine from ovarian tumours. Following the order of former papers, the author has arranged this fourth series of 100 cases in tables of three series. Series 1. Cases in which ovariotomy was completed—100 cases: 78 recoveries, 22 deaths. Series 2. Cases in which ovariotomy was commenced, but not completed-6 cases : 2 relieved or cured, 4 died. Series 3. Cases where an exploratory incision was male-7 cases: 5 5. Cases where an exploratory measion was mars—reases: 0 recovered from incision, 2 died. He shows that the mortality after ovariotomy is steadily diminishing. Of his first 100 cases, 28 died; of his second 100 cases, 28 died; and of his fourth 100, 22 died. In this fourth series forty-four have been in Hospital and fifty-six in private practice. In private practice the mortality was only 14 per cent., while in Hospital it was 31 per cent. The author believes that the mortality in private practice may be taken as a guide to what may become the general average mortality after ovari-otomy, and he is convinced that it may be reduced to about usonny, and no is constructed than is may be reflected to about 10 per cent, without excluding those extreme cass's where the operation is performed as a forburn hopo. The author then proves that large tumous of the non-gravid uterus have been frequently misstaken for ovarian tumours; and he points out how they may be distinguished from each other. He shows that there is nothing in the history of a doubtful case which affords any very decisive assistance, and then examines in detail the signs afforded by inspection and measurement of the abdothe signs anorace by inspection and measurement of the dod-men, by palpitation, and by percussion and aux-cultation, which are of value in diagnosis. He then describes the conditions to be observed in examination by the vagina and rectum—alone or combined—and in conjunction with examination by the abdominal wall, deferring to a future opportunity any account

of the results obtained by exploratory puncture or lucision.

Dr. West, after congratulating Mr. Wells on his signal or vest, arer congratuating Mr. Wells on his signal success, pointed out that the great number of errors fallen into were from not bearing in mind all the precautions to be taken to avoid mistake. We should fall into few errors of diagnosis to avoig missiane. We should that into tew errors of diagnosis if we took all the precautions laid down by Mr. Wells. He took the opportunity of publicly acknowledging his mistake in opposing the operation, which nevertheless would never have been the boon to society it now is had it in the best possible between the properties of Mr. Wells. It was not been the properties of the propertie mere dexterity which was required, but to be very sure of what had to be done and what dangers were to be avoided. Some-times he thought the adhesion of a quondam opponent had its

walue.

Mr. Wells, after signifying his gratification at what Dr.

West had said, brought before the Society an example of a uterine fibroid which might have been taken for an ovarian tumour. It had, however, been dingnosed, and he had removed it. It weighed 11 lbs. 11 oz. The bleeding had been soon checked, and the patient was then doing well.

OBITUARY.

DR. GEORGE PEACOCKE, SURGEON 63RD REGIMENT. WE regret to observe the death of this officer at the early age of 40, reported by telegram as having occurred on the 5th inst., from diphtheria, at Hazareebaugh, Bengal. Dr. Peacocke mst., from uputnerss, as mazarceosaga, pengal. Dr. reaccoke entered the service in January, 1851, and served during the Grimean war and Indian mutiny. He was promoted in January, 1858, and in 1860 joined the 27th Regiment, of which he was in Medical charge at Morar Gwalior during the memorable epidemic of cholcra in 1861. He was transferred to the staff in 1862, and shortly afterwards returned to this country in bad health, in consequence of which he was for a year on half-pay. On returning to the active list, he was appointed to the 68rd Regiment, with which he went out to appointed the button of last year. As a Medical officer, he is said to have been distinguished for the great ability, zeal, is and to have been distinguished for the great ability, zeal, and firmness of purpose with which he discharged what he considered to be his duties on all points connected with the welfare of the troops, women, and children under his charge.

LEGAL INTELLIGENCE.

VACCINATION ACT .- ATKINS *. DUTTON.

Parent refusing to produce Child .- Order for Vaccination. An important judgment upon appeal of the Court of Queen's Bench was delivered on May 9, 1871, before Justices Blackburn

and Mellor.

The Vaccination Act, 1867 (30 and 31 Vict., c. 84, s. 31), provides that upon an information to a justice of the peace by the appointed officer, that any child under the age of fourteen years has not been successfully vaccinated, and that notice given to the parent or person having the custody of such child to procure its being vaccinated has been disregarded, "the justice may summon such parent or person to appear with the child before him at a certain time and place, and upon the appearance, if the justice shall find, after such examination as appearance, if the justice shall find, after such examination as he shall deen necessary, that the child has not been vaccinated, nor has already had the small-pox, he may, if he see fit, make an order under his hand and seal directing such child to be an order under his hand and seal directing such child to be for the seal of t that he had no jurisdiction, npon the appearance of the de-fendant without the child, to make an order for the vaccination. The stipendary magistrate for Wolverhapton stated the case for the decision of the Court.

The case having been argued, the Court held that the production of the child before the magistrate was not a condition precedent to the making of the order. "It would be very absurd," said Mr. Justice Blackburn, "if the Legislature had said that the appearance of the child should be a condition precedent." "And," added Mr. Justice Mellor, "it may be very advisable that the child should be brought, but if the parent will not bring it, his contumney cannot be supposed to obstruct the operation of the Act of Parliament." The case was accordingly remitted for the magistrate to make the order.

MEDICAL NEWS.

APOTHECARIES' HALL. — The following gentlemen Medicine, and received Certificates to practise, on Thursday, June 15, 1871 :-

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De, 101 1—10.

De, 101 1—10.

Desping, George Davidson, Newark, Dependent States, Desping, George Davidson, Desping, Desping,

The following gentleman also on the same day passed his first Professional examination:

Woodhouse, Robert Hall, Middlesex Hospital.

APPOINTMENTS.

. The Editor will thank gentlemen to forward to the Publishing-office, as early as possible, information as to any new Appointments that take place.

ALLWOOD, JOHN PHILIP, M.R.C.S. Eng., L.S.A. Lond.—House-Surgeon to the Macclesdeld Dispensary.

BRICKWILL, JOHR, jun., M.R.C.S. Eng., L.S.A., of Slough, Bucks.— Medical Officer and Public Vaccinator for the Stoke District, Elon Union.

CAMPBELL, A. C., M.B., L.R.C.S.E.—Surgeon to the Dundee Royal Infirmary, vice John R. Bigg, whose term of office has expired.

McLean, Malcoln, M.B., C.M.—Medical Officer and Public Vaccinator to the parish of Bracadale, Inverness. ROBERTS, FREDERICE T., M.D., M.R.C.P.—Assistant-Physician to the Hospital for Consumption, Brompton.

NAVAL AND MILITARY APPOINTMENTS.

NAVAL AND MILITARY APPOINTMENTS.

Naval of Armstrong, M.D., Director-General of the Modical Department of the Modical Department of the Modical Department of Logistic American Appears of the Modical Selection of Modical Appearation of Modical Modical Physics (Appearation of Logistic Modical Modical Physics (Appearation of Logistic Modical Modical

BIRTHS.

Maxirold.—On June 9, at Edgbaston, near Birmingham, the wife of Staff Surgeon-Major M. F. Manifold, F.R.C.S., of a son.

MURRAY.—On June 14, at Tenbury Wells, Worcestershire, the wife of William Berkeley Murray, M.D., of a son.

WHIMEM DETROET MUTTRY, M. D., OR & SOR.
NORLE.—On June 17, at Kendal, the wife of S. C. Noble, M.R.C.S. Eng.,
L.S.A., of a daughter.
PATOM.—On June 16, at Elmbank, Letham, Forfar, the wife of David
Paton, M.D., of a daughter.

MARRIAGES.

BROOKES-ROBKOT,—On June Ja et S. Mathew's, Oakley-square, N.W.,
Robert Charles Brookes, M. R.C.S., L. R.A., eldest son of Charles Brookes,
M. R.C.S., L. S.A., of Westmineter-bridge-road, Lambeth, to Francesonly daughter of the late Frederick Hobson, Esq., of Ampthill-square,
N.W.

Better—Youad. On June 14, at 13, Rupert-street, Glasgow, William Bruce, M.D., of Dunfermine, to Marion Ord, eldest daughter of the late John Young, Esq., Glasgow.

COOKE—Howard, Eq., June 13, at Rodborough Church, Alfred Square Cooke, M.R.C.S., L.S.A., of Stroud, to Margaret, youngest daughter of John Howard, Eq., Walbridge House, Stroud.

Ketchen, of Kingdile, Nairn, Captain Rombay Infantry, to Jemima Lumsden, daughter of George Ritchie, M.D.

Assonatem, uauguster or tecorge Ritchie, M.D.
MILES—Wilson,—On June 17, at 8t. John's Church, Brixton, Henry
Alexander Miles, of Sutton, Surrey, youngest son of the late John Miles,
Surgeon, of Hariow, Essea, to Emily, third surviving daugiter of the
late Henry Wilson, Surgeon, of Runcore, Cheshire.

DEATHS.

BARES, THOMAS FRANKLIN, M.R.C.S., younger son of Mr. Charles Baker, of Eastfield House, Doncaster, at Auckland, New Zealand, on Feb. 14. BLOOMFIELD, CHARLES, M.D., and J.P. for the Parts of Kesteven, Lincolnshire, at Coddenham, Suffolk, in his 78th year, on June 15.

shire, at Codemban, Suffok, in his 78th year, on June 1b.

Baiourr, Sornit, the beloved wife of James Bright, M.D., and daughter of
the late John Hatchard, Eaq., of Clapham-common, Surrey, at 1z, Wei-lington-equare, Cheltenham, on June 14.

Brian, Axxa, the youngest daughter of the late Joseph Blandy Bunny,
Surgevin, in the London-road, Newbury, aged 64, on June 14.

Daus, Bosrat, M.D., Deputy Inspector-General of Hospitals, at 6, Picardy-place, Edinburgh, aged 86, on June 14.

place, Edinburgh, aged 86, on June 14.

Dickrox, Wh. Nwwell, youngest son of James Dickron, M.D., Ballyna-hinch, at Newcastle, county Down, on June 12.

Dichar, Mary, wife of Dr. Duigan, Staff Surgeon Royal Navy, at 19. Tavistock-croscent, Westbourne-park, Bayswater, in her 36th year, on June 7.

GOWING, WILLIAM GREER, M.R.C.S., at his residence, 3, Alfred-place West, South Kensington, aged 79, on June 19. HAFFIELD, H. B., A.M., F.R.C.S.I., at his residence, Charlemont-street,

HATFIELD, R. B., M.D., of 119, Cleveland-street, Fitzroy-square, at the Manor-house, Sawtry, very suddenly, in his 55th year, on June 13, deeply regretted. HILL, WILLIAM, L.B.C.S. Edin., at 1, Union-place, Portobello, Edinburgh-shire, aged 68, on June 10.

LODGE, CHARLES EDWARD, Esq., only son of the late Charles Lodge, M.D., at Montreal, accidentally drowned while boating, aged 25, on May 24. TURTON, ELIZABETH, the beloved wife of William Sturton, M.R.C.S. Eng., L.S.A., late of Greenwich, at 14, St. German's-road, Lewisham, aged 66, on June 16. Friends will kindly accept this intimation.

WILKES, ARTHUE WILLIAM, the beloved son of Annie and Edwin Wilkes, Assistant-Surgeon Royal Artillery, at Salisbury, of measles, aged 9 months and 21 days, on June 10.

p months and 21 days, on June 10.
WATT, Chandrotte, wife of Dr. G. R. Wysatt, and daughter of the late
Herbert Mayo, F.B.S., some time Professor of Physiology in King's
College, and Surgeon to the Middleer Hospital, London, at the FalazzoCalabritto, 7, Strada Sta Caterina, Naples, on June 13, of diphtheria. At
the same place, also of diphtheria, Jossie and Kathering, daughters of the

VACANCIES

In the following list the nature of the office vacant, the qualifications required in the Candidate, the person to whom application should be made, and the day of election (as far as known) are stated in succession.

BRIGHTON ARD HOVE DIBFERRARY, QUEEN'S-BOAD, BRIGHTON.—Resident HOUSE-Surgeon; must have both Medical and Surgical qualifications and be registered. Applications and testimonials to the Chairman of the Committee of Management, on or before June 26. Election on July 4.

BROADHOOR CRIMINAL LUNATIC ASVLUM.—Assistant Medical Officer; must be legally qualified in Medicine and Surgery. Applications to the Super-intendent, on or before July 5.

GUISDONGOO UNION.—Medical Officer; must be duly qualified according to the General Orders of the Poor-law Board. Applications, with diplomas and testimonials, to William Weatherill, Clerk, on or before

July 10.
"Haradevado" Horrital Ship for Searre of all Nations.—Port of Cardiyr.—Resident Assistant Medical Officer. Candidates must be unmarried, and possess a Supried qualification. Applications, with testimonials, on or before Monday, June 26, to David Roberts, Secretary, 17, Church-street, Cardiff.

H. CHURCH-MACH, LAIGH.

HEARFOAD GENRAL INFIRMAY.—House-Surgeon; must be Fellow or Member of the Royal College of Surgeons of England, Edinburgh, or Dublin, and Licentate of the Apothecaries Society of London. Applications and testimonials to the Secretary's Office, Savings Bank, Herr-ford, on or before June Si.

Holswoarny Unios, Drvon.—Medical Officer. Applications, with tes-timonials, to be sent to George Braund, Clerk, on or before July 4.

HUDDERSFIELD INFIRMARY.—Physician; must be a Graduate in Medicine of one of the Universities of the United Kingdom, or a Fellow or Member of one of the Colleges of Physicians, and be duly registered. Applications and testimonials to John Maraden, Esq., Hon. Sec., on or

Detrors July 28.

LERBE PULLE DISPENSARY.—Junior Resident Medical Officer. Candidate a must be unmarried, and possess at least one legal qualification. Applications, with testimonials, to be sent to Mr. John Horsfall, 31, Albion-street, Leeds, on or before July 15.

Abbins-street, Leeds, on or before July 15.

L'ENRINOU, DIFFASARIANS.—Assistant Besident House-Surgeon; must be duity qualified, and unmarried. Applications and testimonials to the fleerwider, on to before June 28. The attendance of candidates with the control of the control

testimonials to the Chairman of the Committee, on or before June 29.
Paisin or Grary Yanourin.—Mckled Officer for the North District;
must be registered under the Medical Act, and possess the qualifications prescribed by the Order of the Door-law Board. Applications, with testimonials, to John L. Cufaude, Clerk, on or before Monday, July 10.

POOR-LAW MEDICAL SERVICE.

*6 The area of each district is stated in acres. The population is computed according to the census of 1861. RESIGNATIONS.

RESIGNATIONS.

Holsworthy Union.—Mr. T. R. Illuston has resigned the Fourth District; area, 17,280; population, 1841; salary, 626 Se. per annum.

or. John's District.
Wallington (Som.) Union.—George Kidgell, M.R.C.S. Eng., L.S.A., to
the First District and the Workhouse.
Worksop Union.—Francis C. Crosslé, B.M. and M.C. Univ. Dub., to the
Whitvell District.

DR. BARNES has been elected sole Honorary Member

by the Society of Physicians of St. Petersburg.

MR. EDGAR SHEPPARD, M.D. St. Andrews, M.R.C.P.

London, has been appointed l'rofessor of l'sychological Medicine at King's College, London.
Mr. M'LUEEE, Inspector-General of Hospitals, has been appointed principal Medical officer of the Southern District, in the place of Inspector-General Gordon, transferred to Dover.

MR. G. ROWLAND, M.R.C.S., has been appointed House-Surgeon to the St. Mark's Hospital for Fistula, City-

MR. THOMAS CLAYE SHAW, M.D. Univ. Lond., M.R.C.P. Lond., has been appointed Lecturer on Mental Diseases, cic Mr. Richard Thorne Thorne, M.B. Univ. Lond., M.R.C.S. Lond., resigned.

MR. J. A. BLOXAM is a candidate for the appointment of Assistant-Surgeon to St. Bartholomew's Hospital

Henry EdmoxDs, M.D., Staff Surgeon, died on the 16th inst. He had been employed in the Dedalus Royal Navy Reserve drill-ship at Bristol since January 25, 1868. He became Assistant-Surgeon in 1838, Surgeon in 1848, and Staff Surgeon in 1863.

THE Statistical Society propose Dr. Farr in succession

to Mr. Newmarch as President.

IT is proposed to make the following two appointments to Professorships of the University of Durham, for the College to Professorships of the University of Durham, for the College of Physical Science at Newsada-lupun-Tyne:—1.A Professorship of Experimental Physics, value £400 per annum, and two-thirds of the students' fees. 2. A Professorship of Pare and Applied Mathematics, value £300 per annum, and two-thirds of the students' fees. It is also proposed to make an appointment to a Professorship of Chemistry, value £300 per squr, and Supplied College of Physical Sciences and State of the State of Science, at Newcastle-on-Tyne.

THE annual Congress of the Social Science Association.

will be held at Leeds from October 4 to October 11 next. By news which arrived on Wednesday, we learn that yellow fever was decreasing at Buenos Ayres. Monte Video is perfectly healthy. Ships from Buenos Ayres are still placed in quarantine.

FOUR HUNDRED POUNDS has been subscribed for the ose of erecting a monument to the five Medical men who died during the fever epidemie in Greenock.

IT is said that the Royal Commission on the Contagious Diseases Act decided on Monday, by a majority of more than two to one, to recommend the repeal of the Acts of 1866 and 1869.

IT was reported to the Shoreditch Vestry last week that the temporary small-pox Hospital, recently erected, was no longer required.

THE Birmingham Board of Guardians have resolved to establish the dispensary system, which is to come into operation on September 30.

on September 30.

THE Worshipful Company of Fishmongers have contributed eighty guineas to the National Hospital for Consumption, Ventnor, this being their second contribution to this institution.

ROYAL COLLEGE OF SURGEONS .- The next Primary MOYAL COLLEGE OF SUREGONS.—IRe noxt Trimary and Pase Examinations for the diploma of Membership will are the properties of the properties for some weeks.

ROYAL GENERAL DISPENSARY, BARTHOLOMEW CLOSE. -At the last quarterly general meeting, the rules were altered so as to vest all future elections of resident Medical officers in

so as to vest all future elections of resident Medical officers in the Committee, instead of the general body ofsuberribers.

THE YELLOW FEYEL—The baryas of highly form of the first the property of the first the firs

WHISKIN P. THE PHARMACEUTICAL SOCIETY .- AR application was made on the 12th inst. to the Court of Queen's Bench, to show cause against the rule granted in this case by the Court on the 5th inst., and noticed by us at the time. The Lord Chief Justice now said that as the applicant had failed to show that there was anything arbitrary or unjust in what the Council had done, the Court could not take it upon itself to review the jurisdiction which was clearly vested in them by the Act of Parliament. Rule discharged with costs.

the Act of Parliament. Kule discharged with costs.

SMALL-POX MOSPTAL, ILANFSTEAD. — "A woman,"
says the Hampsteal and Highgete Express, "who had occupied
a bed in one of the wards, was reported to her husband as being
dead. The necessary funeral arrangements were accordingly
made by the widower, who himself followed the supposed
remains of his decessed wife to the grave. To his astonishment,
the lady whose obsequies had thus been celebrated returned home about a fortnight after her funeral, in a state of extreme surprise at not having received any intelligence during that period from her husband and family, whom she found in deep mourning. The explanation of this misadventure was, that the woman had been removed to a convalescent ward, and another patient, who afterwards died, had been put into the bed she originally occupied. The name of the first patient having been inadvertently left up at the head of the bed caused the mistake which gave rise to so much pain and pleasure

SMALL-POX is very much on the increase in the Dar-

lington Union. EPIDEMIOLOGICAL SOCIETY .- At the annual meeting of this Society, held on the 14th inst., the following gentlemen ot this Society, held on the 14th inst., the following gentlemen were elected office-bearers for Session 1811-12:—Provident: Inspector-General Lawson. However, Vice-Provident: The Honourable W. Corper, M.P.; Edvin Chadwick, Ed., Cl.B. Honourable W. Corper, M.P.; Edvin Chadwick, Ed., Cl.B. Vice-Proxident: Gavin Milroy, M.D., F.K.C.P.; Sir Wm. Jenner, Bart, M.D., D.C.L., F.R.S., Physician-in-Ordinary to Her Majesty the Queen; Henry W. Acland, M.D., F.R.S., Rejus Froissor of Medicine in the University of Oxford: Rogius Professor of Medicine in the University of Oxford; Alex. Bryson, M.D., C.B., F.R.S., Director-General Navy Medical Department; William Farr, M.D., D.C.L., F.R.S.; Sir Thomas G. Logan, M.D., K.C.B., Director-General Array Medical Department; Sir J. Ranald Martin, C.B., F.R.S., Physician to the Council of India; John Simon, Eeq., D.C.L., F.R.S., Medical Officer of the Privy Council; Sir Thomas Watson, Bart, M.D., F.R.S.; Benj. W. Richardson, M.D., F.R.S.; Alexander Arnatrong, M.D., Director-General Navy Medical Department; Edward C. Seston, M.D. Tresserver, Dr. Buchanan, 24, N.N. ing Jamphan, Street, Portland-place, W. Korteney for Navy: Dr. Mackay, R.N., F.R.S. E. Admirally, Somerset House, W.C. Servitary for Army: Deputy-Inspector General Dr. Crawford, 6. Whitbhall-pard, S.W. Forcion and Calonia Societics: a Framen, Helgium, and Italy, Dr. Waller Lewis; Germany and Russia, Dr. Hermann Weber; Sweden, Norway, and Domnark, Dr. W. Daniel Moore; Portugal and the Brails, Dr. Donnark, R.N.; East Indies, Dr. John Jackson, Dr. John Marcheron; West Indies and North America, Dr. Dickson, R.N.; China and the Pacific, Impretured Dr. Massy, C.B.; Dr. Letheby; J. F. Marson, Esq.; Dr. J. Burge, San, J. Dr. Haward; Doputy Inappetor-General Dr. Massy, C.B.; Dr. Letheby; J. F. Marson, Esq.; Dr. J. Burdon-Sanderson, F.R.S.; J. N. Raddiffe.

PHARMACY .- The Bill intituled an Act to amend the Pharmacy Act, 1868, now before Parliament, enacts that :-"Whereas under the Pharmacy Act, 1868, persons selling or keeping open shop for retailing, dispensing, or compounding poisons are required to conform to such regulations as to the keeping, dispensing, and selling of poisons as may from time to time be prescribed by the Pharmaceutical Society, with the consent of the Privy Council: And whereas the Pharmaceutical Society have failed to submit for the consent of the Privy Council any regulations for the above purposes, and it is expedient to make further provision for the making of such regulations: The recited powers of the Pharmaceutical Society of Great Britain under the principal Acts shall cease, and the of Great Britain under the principal Acts shall cease, and the council of the said Society may from tians to time about council of the said Society may from tians to time about presing, and salling the said to the measure of the principal Act, and as to revoking or anending any such regulations previously made, and the Pricy Council may, if they think fit, by order approve of said regulations. If at any time it appear to the Pricy Council that there are no regulations for the time being in force under the principal of Act as to the keeping, dispensing, and selling of poisons within the meaning of the principal Act, the Privy Council may serve a notice on the Council of the Pharmaceutical Society requiring them to frame and submit for the approval of the Privy Council regulations as to the matters aforesaid, and if the Council of the Pharmaceutical Society, within the time limited by such notice, not being less than two months from the date of the service of the notice, make default in framing such regulations, or obtaining the approval of the Privy Council thereto, the Privy Council may themselves frame regulations as to the matters aforesaid. All regulations approved or framed by the Privy Council in pursuance of this section shall have the same effect as regulations prescribed in manner. specified in the principal Act.

Poisonous Mutton .- We see by the Adelaide papers that the mayor of that city has brought an important subject under public notice. This is the alleged fact that some families had been poisoned by eating mutton which had been rendered unfit for human food by the sheep having fed on a poisonous herb. At the last meeting of the corporation, the poisonous nero. At the nat meeting of the corporation, and mayor brought up a report on the matter, from which the fol-lowing is an extract:—"I have the honour to report, for the information of the city council, that on the 8th inst. I received reliable information that several families were suffering from symptoms of poisoning by eating meat sold in the city by the butchers as wholesome. I immediately made inquiry, and find as the result that a number of sheep have, in travelling, been fed upon the plants known as the native cucumber, or colocynth,' the native melon, and also the 'lotus Australis,' which plants are now growing most luxuriantly in all parts of the colony. In the course of this inquiry I find one whole family, consisting of nine individuals, varying in age from 70 years to an infant, completely prostrated, the symptoms being violent sickness, purging, and pains in the limbs. I have also reliable evidence to show that other families have suffered in the same way, and are now suffering from the same cause." In reply to various questions, his worship subsequently added that "he was told that sheep died within half an hour of their feeding on these plants. The wild cucumber, wild melon, and lotus Australis, all poisonous plants, which he had placed on the table, came from the Botanic Gardon, but the park lands abounded with them. He thought it very likely that the meat in question had been sold by the butcher without a knowledge of the state the animals were in."

POISONOUS FISHES—An article recently appeared in All the Ver Round on this subject, in which a long list of poisonous fishes is given. An Australian perch was mentioned in that paper as being occasionally a dangerous article of food. To this we must add the earlish; two boys at Randwick, N.S.W., having been recontly poisoned by eating these fish, which they caught in Coogee Bay, and cooked upon the bund.

They walked home in great agony, and died almost imme-

OZONIC ETHER AS A DEODORISER AND DISINVECTANT.—
In a letter to the editor of the startails afficial surrough.
Dr. John Day, of Geelong, strongly advocates the employment of this preparation. He states that for the last six years he has kept water-closets perfectly free from all offensive odours, by hanging a piece of sponge against the wall and oceasionally pouring over it a few drops of a mixture of osonic ether and an ounce of the former. In the sick-rown he found conside ether and an ounce of the former. In the sick-rown he found considered the former is the sick-rown he found considered the former is the sick-rown he found considered the former. In the sick-rown he found considered the former is the sick-rown as an injection in those uterine diseases which are accompanied by offensive discharges, and he finds that it not only at once declorises the disebarge but acts as a most agreeable solutive. He finds that or onic other added to pus gives rise by decomposition, accompanied with pretty active effertweenes, and that after a time not this fact three an important practical bearing in checking the spread of those diseases that are assumed to originate in the presence of pus-cells with it if

NOTES, QUERIES, AND REPLIES.

De that questioneth much shall fearn much .- Bacon.

D.C. Ozon, is thanked. The man in the red tie was properly hissed, if "his prosence and his costume were understood to be a flaunting of Red Republican or Communistic notions in the face of the undergraduates."

An Inquirer.—The fees for education and examinations and registration can be cut-down to £110. Of course a man can live as he likes. The abortest time to obtain a diploms is four years.

P.—The late Mr. Jones, of Jersey, was, we believe, the first to give digitalis in large dones for delirium tements. Vennection in pleurity and pneumonia relieves the pain and dysponea quickly in the right cases. We believe that moderate belong would alwater the duration of many diseases. If ice cause aching, the case is probably neuralgic or ansemic, and not fit for antiphilogistic measures.

Clarke v. Duchanen.—This case, arising out of the salc of a Medical practice at Staines, came before Mr. Justice Hannen, at Westminster, on Tuesday last, and was ordered to be referred to Dr. Baxter Langley as arbitrator, with full powers and costs at his discretion; the costs of legal proceedings up to date to follow upon his award.

Mr. Jones, Llandwine.—The result of your son's examination in Arts, etc., for the diploma of Fellowship of the Boyal College of Surgeons, cannot be known for some weeks, owing to the many hundred papers to be examined.

Pr. M.-The distinguished Professor of Dermatology is in no degree to beconsured for the trule advertisement in our functions contemporary $<math>J \omega f_{SF}$. The silly threat of one of the "young gentlemen who wield the bundede" of a Merical contemporary in "show him g_{SF} " will be treated astifactory explanation of all the circumstances connected with the publication of the Hittle broketer in question.

E. C., R. T. L., etc .- It would be quite out of our province to enter more deeply into the question of marriage. As for the "deceased wife's sister" question, "E.C." believes such matches to be contrary to religion, whilst "R. T. L." holds the contrary opinion. We are not going to attempt to decide. It is quite within the province of any social body to lay down regulations as to marriage, circumcision, vaccination, and the like. The durability of such regulations, and the respect in which they are held, must depend on whether the thing prohibited is not merely malum prohibitum, but malum in se, or the converse. Marriage, as usually colebrated in England, consists of three definite parts, each of which is distinguishable, though commonly combined into one rite. First, there is the promise of a man and woman, and their mutual consent to live together as man and wife. This is "natural" matrimony; and, of course, if a man or woman were together in a desert island, with no society about them, and no lawyer or parson, nothing else would be possible or requisite. But, secondly, forasmuch as society is deeply interested in the validity and permanence of marriage, so it has a right to demand that the contract between man and wife shall be entered into with certain formalities, before witnesses, and be properly registered and attested. Marriage, with the formalities required for its recognition by the State, is commonly called civil marriage. It exists as a separate ceremony in most Continental countries. But, thirdly, inasmuch as civilised man believes in a God above him, so his religious sentiments require that the nuptial union shall be consecrated by religious rites. In marriages in the English Church, the religious and the civil element are intertwined into one ceremony; or, rather, the strictly religious part, which confers the benediction and elevates the sexual contract into the dignity of a sacrament, immediately follows the ent" and "troth" before witnesses, which are the "natural" and "civil" elements. Mr. Weightman shows with great clearness that the religious element, important as it is, cannot of itself make a marriage valid, without the formalities which the law enjoins,

Corrigendum.—In the recent election of Medical Officer to the Royal

Asylum of St. Anne's Society. Mr. George Harrison was the successful candidate, and not Dr. Sandford, as previously announced.

CHLORIDE OF AMMORITH.

TO THE EDITOE OF THE MEDICAL TURES AND GAZETTE.

Sig.—Can any of your resulers inform me of the use of chloride of ammonium—or sel ammonium—as it used to be called—in acute disease (as bronchitts)?

TENAX.

THE HANDEL PRETIVAL.

The Harden Fertival.

Sign—I were depended in the state of the state o

COMMUNICATIONS have been received from

COMMUNICATIONS have been received from—
Mr. John bri, Dr. Whitelan, Dr. Despies, Dr. Marcey, Dr. James
Morris, Dr. Willer Law, Dr. Despies, Dr. Marcey, Dr. James
Morris, Dr. Stophari, Mr. E. A. Lauersce, Dr. Barrey, Mr. M.
Herri-Homerey, An Dournman, Dr. Albert A. Gost, Mr. A. S. G.
Belge, Dr. J. P. Dersanj, Mr. Sance, Carres Nober, Mr. Moory,
Mr. Gromer Harmison, Mr. Mercharty Jourson, Mr. Moulson,
Mr. J. Charles, Dr. J. R. Marcharty Jourson, Mr. Moulson,
Mr. J. Charles, Dr. J. R. Harmis, Dr. McCo.,
Mr. J. Charles, Dr. Gross, Dr. J. R. Harmis, Dr. Moco,
Mr. J. Charles, Dr. Gross, Dr. Barton, Mr. J.
Carrent, Dr. Gross, Dr. Barton, L. R. Marce,
Mr. J. Charles, Dr. Gross, Dr. Dr. Nr.
A. C. Carrent, Dr. Gross, Dr. Dr. Nr.

BOOKS RECEIVED-

BUUNS RELIAIVED—
Sansom on the Antiseptic System—Farquharson on some Forms of Pneumonins—Stricker's Medizinische Jahriucher—How to Lire on Sixpence a Day, by Dr. Nichols—St. George's Hoppital Reports, vol. v.—Ir. Hawkes on Public Lanatic Asylums—Fenton and Wood's Process of Utilising the Sevage of Towns.

PERIODICALS AND NEWSPAPERS RECEIVED-

PERIODICALS AND NEWBYAPERS RECEIVED—
Chemist and Durgist—Journal of the Scottish Meteorological Society,
No. 50, for April—Dazette des Höpitaux—Tharmacentical Journal,
No. 50, for April—Dazette des Höpitaux—Tharmacentical Journal
April—Mellener Daily Teigraph—Mellourne Agre—Learnington
Chronicle—Garette Heldomadaire—Food Journal—Medical Press and
Circular—Birmingham Daily Joud—Southport Independent.

APPOINTMENTS FOR THE WEEK.

June 24. Saturday (this day).

Operations at St. Bartholomew's, 14 p.m.; St. Thomas's, 94 a.m.; King's, 2 p.m.; Charing-cross, 1 p.m.; Royal Free, 2 p.m.; Hospital for Women, 94 a.m.; Royal London Ophthalmic, 11 a.m.

26. Monday.

Operations at the Metropolitan Free Hospital, 2 p.m.; St. Mark's Hospital for Diseases of the Rectum, 2 p.m.; St. Peter's Hospital for Stone, 2h p.m.; Royal London Ophthalmie, 11 a.m.

27. Tuesday.

Operations at Guy's, 14 p.m.; Weatminster, 2 p.m.; National Orthopsedie, Orest Portland-etreet, 2 p.m.; Moyal Free, 2 p.m.; Noyal Eveder Ermonovical, Soverry, 8 p.m.; Moyal Eveder Ermonovical, Soverry, 6 p.m.; Meeting, 9 m. Dr. William Ogle, Boyta, Minical, and Francovical, Meeting, 9 m. Dr. William Ogle, William Ogle, William Ogle, William Ogle, William Ogle, P. F. B. Nunseley, Mr. Spencer Watson, and Mr. Francis Mason.

28. Wednesday. Operations at University College Hospital, 2 p.m.; 8t. Mary's, 1 p.m.; Middlesex, 1 p.m.; London, 2 p.m.; 8t. Bartholomw's, 1 p.m.; Ord. Northern, 2 p.m.; 8t. Thomas's, 1 p.m.; Sanaritan, 2.0 p.m.; King's College Hospital (by Mr. Wood), 2 p.m.; Boyal London Ophthalmic,

SOCIETY OF ARTS, 4 p.m. Annual General Meeting.

29. Thursday.

perations at St. George's, 1 p.m.; Central London Ophthalmie, 1 p.m.; Royal Orthopeedie, 2 p.m.; West London, 2 p.m.; University College Hospital, 2 p.m.; Royal London Ophthalmie, 11 a.m.

ou. Friday.

perations at Westminster Ophthalmic, 1½ p.m.; Central London Ophthalmic, 2 p.m.; Royal London Ophthalmic, 11 a.m.; South London Ophthalmic, 2 p.m.

VITAL STATISTICS OF LONDON. Week ending Saturday, June 17, 1871.

BIRTHS.

Births of Boys, 959; Girls, 949; Total, 1908. Average of 10 corresponding weeks, 1861-70, 1965-9. DEATHS. .

		Males.	Females.	Total.
Deaths during the week . Average of the ten years 1861-70 . Average corrected to increased populatio Deaths of people above 90 .	n :	733 651·3	616 560 0	1349 1211'3 1332

DEATHS IN SUB-DISTRICTS FROM EPIDEMICS.

		Popula- tion, 1861.	Small-pox.	Measles.	Searlet Fever.	Diphtheria.	Whooping- cough.	Typhus.	Enterie (or Typhoid) Fover.	Simple continued Ferer.	Diarrhon.
		456125	8	-	3	-	8	1	1	1 1	3
West	***				9	6	2	1 :	1	3	7
North	***	619210	109	2	3	1 6	5	1			
Central	***	383321	14	9	1		2	1	1	41.0	
East	+11	571158	32	8	5	1	9	1	2	2	5
South	***	773175		a	8	9	- 5	1	6		7
Total	***	2903999	240	21	17	1 9	29	(3	13	6	24

METEOROLOGY.

From Observations	at	the	Gree	micie	h 0	bseri	ato	ry.
Mean height of barometer					٠			29'706 in.
Mean temperature								59:5°
Highest point of thermometer .								77.9"
Lowest point of thermometer .								47.0
Mean dew-point temperature .								54.8"
General direction of wind								Variable.
Whole amount of rain in the w	ee	k .						1.05 in.

BIRTHS and DEATHS Registered and METEOROLOGY during the Week ending Saturday, June 17, 1871, in the following large Towns:-

	on in	Acre.	during une 17.	during une 17.	Tem of A	pera ir (F	ture	Temp. of Air [Cent.]	1 150	
Boroughs, etc. (Municipal boun- laries for all except London.)	Estimated Population middle of the year 187	Persons to an Ac (1871.)	Births Registered the week ending Ju	Deaths Registered the week ending Ju	Highest during the Week.	Lowest during the Week.	Weekly Mean of MeanDaily Values.	Weekly Mean of Mean Daily Values.	In Inches.	In Centimetres.
London	3259469			1349	77.2	47.0			1:05	2.67
Portsmouth	125464	13.3		32	72.2	43 2	57.5	14'66	0.54	
Norwich	81787	10.8	55		79.0	43'0			10.24	0.61
Bristol	173364		125	60		***	***	13'50	11:05	
Wolverhampton	74438			141	140	42 4	5613		0.98	
Birmingham	378574			141	22.0					8:36
Leicester	101367						181			5:66
Nottingham	90480					47.5			0:78	
Liverpool	526225						60.8		10:99	2.51
Manchester	379140						581		0.56	2 4
Balford	128851						580		1'18	3.00
Bradford	266106				70:0	43-6	57.3		1:75	4'44
Leeds	255247			100	49-0	49-7	59:5	13.61	13.01	7'68
Shettield	135196				75-0	85.0	54'6		1:51	3.84
Hull	103037					1				1
Sunderland Newcastle-on-Tyne	136298				64.0	44 0	52.2	11:39	1.27	
	179944					42.0	53'5			25
	477627					43'5	57.4	14'11	1.01	2.5
Dublin (City etc.)	322321			111	78.8	42	56'8	14 89	-	0.3
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The actual numbers (unrevised) of the population of these cities and boroughs, as enumerated on April 3, will probably be available before the middle of the year, and will then be substituted for these estimates.

INDEX.

A Abdomen, subsidence of a tumour of the, case of, Aherdeen, University of, passeliste of the, 498
Abortion, curious ease of charge of procuring, 233
Abortionists, the New York, a bloor to the, 267, 348
Abortionists, the New York, a bloor to the, 267, 348
Aboress, perinspharite, Dr. Borland on, 122
Achand, Professor, on Hospitals and public
Besture of, or mational beaths, 468
Acapter-sure, occlusion of arteries in, Mr. Gant
on the, 232 Major, on an instance of the

Adams, Surpeco-Major, on an instance of the embedding of mall-pot, 123
Adams, Surpeco-Major, on an instance of the embedding of mall-pot, 123
Adams, Surpeco-Major, 123
Adams, Major, 123
Agrew, Mr. on his col-liver oil jelly, 223
Agrew, Mr.

Alcoholism, influence of, upon vision, Dr. Galexowski on the, 520
Aldis, Dr. on scarlet fever in St. George's parish, Allbutt, Dr. effects of exercise on temperature,

on over-drain of the heart, 145 Allen, Dr. on natural degeneracy in the United

Althaus, Dr. on neuritis of the brachial plexus, 331
Case of naso-pharyugasi polypus treated by
Case of naso-pharyugasi polypus treated by
Amazerotis eryphala in, Dr. Nagel on, 78, 459
Amilyopia, influence of alcoholism on, Dr.
Gislcawski on the, 520
Ambulance, the first French volunteer, history of,
by "One of the Sungross," 22, 51, 28, 111.

by" One of the Surgeons," 22, 21, 78, 111, 171, 229
de l'Ancien Corps Legislatif, Baron Mundy's

report on the, 402 Anglaise, Dr. Cormack on the, 100 notes and recollections of the Anglo-American, Dr. MacCormac's, 580 dances, the Paris, rate of mortality in the Ambula

at Amiens, Dr. Mouatt on the, 487 vide War America (Central), character of diseases prevailing in. Ammonia, injection of, into the veins, Dr. Neild on, 616

on, 619
Amputation, alleged performance of, without permission, 110
Ampiold disease, report of the Pathological Society on, 512
Americal Society o

rea, puncturing in, Dr. Handfield Jones on,

Anderson, Dr. Patrick, obituary notice of, 354
Dr. A. D. of Glasgow, obituary notice of, 587
Andrews (81.), University of, report against
application of the, 318

Andrews (81.), University on repeats against application of the, alls passe-list of, 422.

Accurrien, intra-theracic, Dr. Russell on a case of, 521.

at the bend of the elbow, case of, 323 traumatic, of the leg from gunshot wound, Dr. Excess on, 579.

transmatic, of the leg from gunshot wound, Dr. Bysres on, 222 d, after poperation, 253. Askle-joint, question of treating grashot wounds of the, 233 Ansteel, Professor, on building sites, 253 Ansteel, Professor, on building sites, 253 description, and building sites, 253 each case of neuralgia of the fifth nerve, 252 on a case of neuralgia of the fifth nerve, 252 antiseptic treatment of wounds, Dr. Sanoson of Anhabysic treatment of wounds, Dr. Sanoson of Aphabysic treatment of wounds, Dr. Sanoson of Drutt or cases of, 24. Jesions of the brain producing, Dr. Layceck on the, 243.

Apoplexy and drunkenness, Dr. Jackson on the diagnosis of, 300 cide Drunkenness

Aristocracy, Dr. Har sen on Darwinism in rela-

Aristocracy, Dr. Har sen on Darwinium in rea-tion to, 25 and ambulances, unsatisfactory position of the Lin, groupeous views of property of the property of the Aristocraft of the Captain 170 than on the, 633 Army Medical Department, analysis of the Report of the, for 1892, 614, successful candidates for the, 265.

reorganisation of the, a Staff Surgeon-Major reorganisation of the, a Staff Surgeon-Major on a, 254 expenditure for medicines, &c., "A Surgeon of Twenty-five Years' Service" on the, 54 Dr. P. O'Councl's complaints concerning the,

alleged abuse of mercury in the, Dr. Bennett

on the, 102, 142 injustice in the, regarding periods of leave, 225 effect of the proposed reorganisation on 178, effect of the program 230, 327 230, 327 unification of the, "X. X." on, 622 a "Medical Reserve" for the, 333 "X. X." on, 527 the Volunteers in relation to the, 428 "Xtiliany Surgeon" on, 523

the Volunteers in relation to the, 428
"Military Surgeon" on, 563
Army Medical School at Netley, reopening of the,

in India, mortality in the, 385, 664 my, the French, prevalence of drunkenness in the, 500

the, 602 Arnold's surpical bag, 558 Arnolt, Mr. Henry, on the pathology of malignant new growths, 550, 559, 686 Arsenic, rationale of the use of, M. Gubler on the, 557

enical wall-papers, 674

Arsenical wall-papers, II.4
Arteries, demonstrations of the movements of,
Ir. Sanderson's, 322, 437.
methods of recording pressure in the, Dr.
resisting action of to bullets, Dr. Bonnafont
on the, 256
torsion of, after amputation, Dr. Forster's
practice of, 224.

practice of, 274
acclusion of, after operation, Mr. Gant on the. sure of, after wounds, Professor Billroth on

syphilitic disease of the cerebral, Dr. Moxon

syphilite disease of the cerel-ral, Dr. Moxon, 200, 212 million, Mr. II. Smith's case of lighture of the, 213 sub-clavian, Br. William Fergusson's case of lighture of the, 213, 333 and lighture of the, 213 and 213

of meetings, 25, 115, 235, 263, 352, 466, returns of small-pox cases by the, ride Sm pox Association of Medical Teachers, Mr. De Morgan' address to the, 198 Astigmatism, rare form of, Surgeon Partridge on

Augmansin, rate (vin 0., suscend factors) on a, 223
Atchison, Surrecon-Major, on small-pox encampments, 335, 454
Attfield, Professor, on alterations in pharmacoposial nonenclature, 433
Austria, Inspector-General W. Alb. death of, 354
Australia, Medical matters in, 220

B Baker, Mr. Thomas Franklin, death of, 222 Bakewell, Dr. on vaccinia in negroes, 32 on Dr. Beauperthuy's treatment of leprosy, 233, 432 on malarial fevers, 234

Bakewell, Dr. on quinine in malaria, 202

Bakewell, Dr. en quinien is malaria, 222
on compaleyr vaccination, for
on the Report of the Army Medical Deland, Dr. query concerning peoples, 626
Ballard, 19r. E. case of pemphigus contracted
on compository desirection, 253
Ballot, Dr. on spidenties of email-post sentiation,
Dr. on spidenties of email-post sentiation,
Barries, Dr. on the limitation of public vaccinations,
Taction, 120
Barries, Dr. on the limitation of public vaccination,
Dr. on the limitation of public vaccinations,
T. on the property of the contract of cases
(Mal.) Hospital, report of cases
(Ballot, Dr. on, propriet of cases trended at, 242

Challana, reports of cases trended at, 242

vated at, 1255
Chatham, reports of cases treated at, 246,
Mr. Samuel, obstuary notice of, 558
, Mr. Lateral Curvature of the Spine,

Bath Royal United Hospital, abuse of charity at

Raumes, Professor, death of, 414
Beale, Dr. on the nature and treatment of disease, 183
caman, Dr. on vaccination and revaccination,

379 Beauperthuy's treatment of leprosy, Dr. Bake-

Beauperthuy's treatment of leprosy, Dr. Bake-well on, 233, 429.
Helfast, letter from, 113.
Helfast, letter from, 113.
Helfast, letter from, 114.
Helfast, 1

Brange-Sting in India, Dr. Chevers on, 281.
Bis hiorde of methylene, Mr. Gaine on the advanBis hiorde of methylene, Mr. Gaine on the advanBis hiorde of methylene, Mr. Gaine on the advanBis his his control of the Mr. Chevers on, 281.
Billioth, Professor, alstrards of letters of, from
26, 492, 60, 622.
Dr. Hartsen's criticism upon, 28.
Binger, the International Control of the Mr. Cheverson, 26, 262.
Grant Biophylan Professor, 25, 262.
General Biophylan, repers of cases treated at

General Hospital, reports of cases treated at the, 13, 212, 211 Bischoff, Professor, queries as to Medical exami-nations, 274, 221 Blackwell, Dr. Elizabeth, Lectures on the Laws of Life, notice, 412 Bladder, Irritable, in pregnancy, Dr. Playfair on,

Bladder, irritable, in pregnancy.

Six 1985.

Blake, Miss Jee, un warrantable imputations of, 17 action for libel assimel, 650, 250 and 100 action for libel assimel, 650, 250 and 100 action for libel assimely. Dr. Sanderson on the parameter of the plants of the plants

examination of the, by the spectroscope, 124, 211 action of acetic acid on the colouring matter

of the, 211
circulation of the, Dr. Sanderson
physics and physiology of the, 211
Bloodletting in obstetric Medicine, di
on, 194

Blood-stains, examination of, by the spectroscope,

Blood-stains, examination of 1, by the spectroscope, Mr. Sorby on the, [53] Bloodvessels, gunshot injuries of, Professor Bill-roth on the, 402 Bloomfield, Dr. Charles, death of, 226 Bloomfield, Dr. Charles, death of, 226 Blowpipe, a new, for anatomista, 145 Bloxam, Mr. on a bottle for chloroform adminis-

Brain, disease of the, use of the ophthalmoscope leaves of the property of the

Brant, status of Physicans in, Dr. Daunt on the, 42 Bread, adulterated with sulphate of copper, 502 Breads, medullary cancer of, case of, 651 Broadbent, Dr. on paralysis of the soft palate, 262 on paralysis of the facial nerves, from spphills,

on phosphorus in skin diseases, 497 Brothurst, Mr. Deformities of the Human Body,

Brondaurst, Mr. Deformities of the Human Body, notice, 201 Bromides, organic, Dr. Richardson on the, 413 Bronchial catarrh, with albuminuria, Dr. Hand-field Jones on a case of, 302 Bronchoede, Dr. Wahtuch on a successful case

Bronchovele, Dr. Wahltuch on a successful case to the surface of the division of the cervical faceia. 2020 Brooke, Mr. hetures on force and energy, 711. Brown, Dr. F. J. on the position of Naval Assistant-Surgeons, 22 Assistant-Surgeons, 23 Dr. Horne, 1997,

Bruke, 17cf. on eccod and zood of the bloc corpuscies, 62 Bruits, regurgitant, 1r. Silver on the, 300 Brunton, Dr. anomalous cases of small-post, 64s Buddhistic view of the future of man, 621

Buenos Ayres, epidemic of yellow fever at, 575,

Building sites, Professor Ansted on, 22
Bunnett, Deputy Inspector-General Dr. Henry
Jones, death of, 421
Burke, Mr. Patrick, death of, 520
Burking the Italian boy, Mr. Clarke's account of,

Mr. Tuson on the, 327
Burps and scalds, treatment of, by flax-seed oil, Buzzard, Dr. case of cervico-brachial neuralgia,

Calculi, billary, specimens of, 55 renal, in the London museums, 263 versal, in the London Lawrence, in the London Lawrence, 263 versal, in the London Lawrence, 263 versal cancer, and consequent Lawrence, 263 versal cancer, and 263 versal cancer,

generalised, specimens of, 440
of the breast, microscopic examination of a
soft, 554
mcdullary, 661

of the femur, encephaloid, treated by electrolysis, 438 of the pylorus, with secondary deposits, case

of the pylorus, with secondary deposits, case of, 202 colloid, of the skeleton, specimen of, 254 of an undow-conded testis, case of, 11 of the torsil, case of, 124 Canham, Dr. Joseph, death of, 205 Capillary circulation, Dr. Sanderson's demonstrations of the, 505.

tions of the, 505 Carbolic acid, utility of in poisoned wounds, Assistant-Surgeon D'Oyle on the, 215 in phthisis, Dr. Richmond on, 502 perchleride of iron as a test for, Dr. Osborn

per-bloride of iron as a test for, Dr. Orborn on, 220. Ranson on the 238 test for, Dr. Ranson on the 238 test for, Dr. Ranson on the 238 test for, Dr. Ranson on the second of 242 Carje, Wr. Charles, death of, 252 Carjenter, Dr. Wr. B. on deep-sea explorations, 310 Dr. A. on sexuge farms at Croydon, £42 Cat thely among the garviters, 231 Catalopter, one of, 522.

Catalepsy, case of, 282. Catalepsy, case of, 282. Cataract, treatment of, by the semilunar incision, Mr. Hogg on the, 625, 630. Cell-life, phenomena of, Dr. Sanderson on the, 1 Cells, action of electrical stimulus on, 61. Cansus of 1811, Dr. Farr's circular respecting the,

Census of 1871, Dr. Farr's circular respecting the, 253
Cerrebellum, strophy of the, specimen of, 441
Cerrebellum, strophy of the, specimen of, 441
Cendrivis, Dr. Adam, death of, 253
Cindrivis, Dr. Adam, death of, 253
Cindrivis, Dr. Adam, death of, 253
Chanleris, Mr. note on the Illimingham Women's Hospital, 847
Chambers, Mr. note on smilarty handbills, 357
Chancer, Mr. Maunder's clinical observations on, 221

Chancres, opinions on the varieties of, 512, 54 Charing-cross Hospital, reports of eases treated at the, 362, 559

India, 183 on nurder by poisoning in on pium-esting, 121 on poisoning in dia, 222 on insanity in India, 225 on insanity in India, 235 Chieces Materia Medica, Dr. P. Smith on, 230 Children (stilltown), interment of, Mr. Lowndes Chlord in ouerneed conversed conversed to the contract of t

on the, 606
Choral in puerperal convulsions, Mr. Whidborne
on, 664
death from large doses of, 132
instances of death from, 867, 384, 672
employment of, in obstetric practice, Dr. Kidd
on the, 122

employment of, in obstetric practice, Dr. Kidd on the, 142 in a singular, 641 in a singular si

on, 413 combination of, with cod-liver oil, 213 test for the purity of, 221 oralum, 1r. Stevenson's report on, 25 Professor Gamgee, in reply to Dr. Sansom, on,

A rotessor Gampee, in repry to Dr. Sansom, on, 124
Chloroform, bottle for administering, Mr. Bloxam on the, 232
Dr. Ross on the, 417
Messer, Arnold on the, 446
case of death from, 221
case of studie by, 411

as an antidote in strychnia poisoning, injection of ammonia in possoning by, 616 uncertain action of the vapour of, Dr. Thomp-

son on the, 252 glycerine as a vehicle for, 572 quantity of used and deaths from, in United States, Dr. Squibb on the, 627.
Cholera, post-mortem contractions in, Mr. French

sera, pest-increen contractions in, Mr. French on, 173, 683 Macnamara's letter to Mr. Simon on the, 633 water theory of, as to India, Mr. De Renzy on the, 411 epidemics of, in East Africa, Dr. Christie on,

epourme of, in Russia, 577 and cancer, extraordinary prescriptions ogainst, 574 Cholomeley, Dr. oration of, before the London Medical Society, 521, 546 corrigendum, 654 Chorea, avectors.

corrigendum, 624 Chorea, excretion of urea in, Dr. Handfield Jones

on the, 262 connexion with epilepsy, Dr. Russell on, sor Steiner's clinical report on. Christie, Dr. on cholera in East Africa, 231 Churchill, Dr. Fleetwood, Diseases of Children, notice, 112

Churchill, Dr. Fleetwood, Diseases of Children, Markey Children, Markey Children, Markey Children, Markey Children, delenge, and physiology Children, delenge, and physiology Children, on the transport of the pr. Sanderson on the 211 Charl, Dr., Dudrey, on the treatment of perimensial fluvois, (281 call receilled in perimensial fluvois, (281 call receilled in perimensial fluvois, (281 call receilled in secretary of the Proceedings, 128, 127, 268 call receilled in Secretary Children (281 call received in Secretary Childr

Confection

S15
Confectionery, poisonous, prosecution for, 19
Connel, Dr. A. J. N. death of, 323
Consumption Hospital, Brompton, reports of cases
treated at the, 325
Contagious Diseases Acts, prosecution under the,

stagious Diseases Acts, prosecution under the, 148
statistical results of the, Mr. Hill on the, 166
Ought they to be Repealed! notice, 172
operation of the, 11r Balfour on the, 615
operation of, in India, Surgeon De Renzy on

the, 350 of the, in Hong-Kong, 211 Operation of the in Hong-Kong, 211 Convolutions of children, Dr. Hogg on, 224 purperal, Mr. Whidborne on a case of, 321

Convulsions, puerperal, preceded by aphasia, Dr. Druitt on a case of, 34
Cooper. Mr. Bransby, reminiscences of an "Old Gny's Man" concerning, 21
Dr. C. on the origin of the guinea-worm, 517
Cormack, Dr. on the Ambulance Anglaise at Paris

on the second siege of Paris, 458 Coroner for Central Middlesex, Seventh Report of, 130 criticism on the verdicts at the court of the.

Coroners, the laws relating to, 255 Coroners' inquests, Baron Martin on prosecutions founded on, 313 cost of, in Middlesex, 223 in London workhouses, return of the, 363 illustration of the inefficiency of, at Oldham,

illustration of the intenteency of, at Ophana, question of the right of holding, in subder and the property of the property of

Daglish, Mr. George, obituary notice of, 112 Dallympic, 197. 1981 of; vonewasing abundands, 912 observations on the, 253 Dalleyll, Dr. on aremical wall-papers, 152 Darly, Mr. John Thomas, death of, 251 Darmines and aristoracy, Dr. Hartsen on, 258 Moore, Mixtra and Stebbing on, 252 Darmines and Laties, December of, 252 Darmine Laties, December of, 252

Daun, Deputy Inspector-General Dr. Robert, death of, 724
Daunt, Dr. on the use of Latin to the Physician, 252
Dr. William, death of, 253
Daveport, Mr. Charles, death of, 253
Day, Dr. George, note on Hammond's Journal, 463
Dr. John, on a combination of iodine and

Dr. John, on a combination of iodine and ozone in syphilis, 269 Death, real and apparent, Dr. Richardson on, 181 apparent, from lethargy, Prof. Nussbaum on the prevention of, 201 Degeneracy, national, in the United States, Dr.

Degeneracy, national, in the United States, Dr. Alles on, affect of George Town, in, 620 Demerars, health repeated of George Town, in, 620 Demerars, health repeated of George Town, in, 620 Demay, Mr. Ef. obltuary notice of, 325 Demiss, buffer, Mr. Fewill's notice of, 325 American, career of, 325 De Benzy, Surgeon, on the operation of the "Contagious Diseases Act" in India, 320 of the Contagious Diseases Act" in India, 320 of the Contagious Diseases Act of the Contagious Diseases Diseases

on the water theory of choices, as regard-ladis, decaye Darby, Mr. J. F. Clarke's retainisence of, 639 Dewar, Dr. Rheumatism and Rheumatic Gont, review, 620 Diabetes, Professor Seegen on, 111 use of the esthesiometer in, Dr. Laycock on

use of the resthesioneter in, Dr. Laycock on the 520 detection and estimate of sugar in, Dr. Tidy on the 628 Diathetic diseases, Dr. Laycock on, 321 Dickinson, Mr. Tonic Treatment of Gout, notice,

Dickinson, Mr. Torici Prestruent of Goat, notice, project, local use of 1.9. Fabricals on the effect of the project of the pro

Dissecting peg and case, 145
D'Oyle, Assistant-Surgeon, on carbolic acid for
poisoned wounds, 218
Dodds, Dr. Mary, on female students of Physic, "Dreadnought" Seamen's Hospital, cases treated

at the, 631
Dresser, autumn tour of a, in 1870, 349, 400, 579 Drew, Mr. cases of hydrophobia, 622 Drowning and cold, death from. Dr. Richardson

arowning and cold, death from, Dr. Richardson on, 21, 181 Druitt, Dr. varieties of imperfect speech in brain disease, 24, 26, 122 on what is successful revaccination, 225 on the report of the Sanitary Commission in relation to the Medical Officers of Health, 25,3

Druitt, Dr. on drunkenness as modified by race, 122 on physical education in elementary schools, summary of experiments on snake-poison,

Drunkards, legal capacity of, the American law on the, 295, 265 habitual, Mr. Dahymple's Bill for, 811, 265 Drunkenness, as a ground of divorce, 227 diagnosis of, and of apoplexy, Dr. Jackson on the

the, 300 as influenced by race, Dr. Druitt on, 420 prevalence of, in the French army, 610 wide Alcoholism

Dublin, sewage difficulties at, 616, 6

Dublin, sewage amounts at, 61c, 621 letter from, 622—lists of, 237 University, pass—lists of, 237 Dubois-Reymond, Professor, "Schlittenmagnet-electremetor" of, described, 4 Du Brauge, prosecution of, by the College of Surgeons, 884 Ducheme, Dr. G. B. Localised Electrisation,

Ducherine, Dr. G. B. Localized Electrisation, review, 29, 486, 611 on localized lectrisation of muscles, 220 Duffin, Dr. on a case of roscola variolosa, 261 Duke, Dr. rexplanatory note of, 512 Dunan, Dr. textenent of uterize hemorrhage Dunan, Dr. on vaccination and revaccination at Glasoro, 222 Dr. Cameron in reply to, 222

Ebeworth, Mr. action of, for vaccination fees, 222. Edinburgh, letters from, 79, 584, 615. University of, report against the claims of Boyal Infirmary, reports of cases treated at the 14, 14, 125, 275, 384, 24, 207, 216. confroversy concerning the admission of sire Weener.

ride Women Edmonds, Staff-Surgeon Dr. Henry, death of, 722 Edmonds, Nath-Surgeon Dr. Henry, death of, 72 Egg, chemistry of the, Dr. Diskonow on the, 220 Elam, Dr. on partial scate cerebritis, 623 Elaw, prescription of the, Mr. Hill's case of, 527 Electricity, stimulus of, applied to leuccytes, Professor Sanderson on, 4 Professor Sanderson on, 4 Electricity, localized, M. Duchenne on, 26, 425.

of musicles, M. Ducheane on localised, 220
of the extensor earp, 320
of the extensor earp, 320
of the extensor earp, 320
of the extensor earp, 321
of the extensor earp, 322
o

The relation to the sewage question, Dr. Cobbid on the 88, 215, 263, 324.

Entroplum, new operation for, Mr. McCraith on Epidemiological and the second of t

con, 289, 442; corrigendum, 572 treatment of, Mr. Tyrrell on the, 26; cocentric (hepatic), Dr. Kerr on a case of, 563 Epilacijoma of the check, case of, 572 Epilac, Dr. John, Mr. J. F. Clarke's reminisoence of, 639
Erysipelas, influence of moisture in the propaga-

tion of, 257
after gunshot wounds, Professor Billroth on,

after guadatot wounds, Professor Billredh on, 2022

1022

1023

1024

1025

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10

F Fag; e, Dr. on sporadic evolinism in England, 352 Farr a k, Dr. on the local use of digitalia, 498 Farre, 1 r. Archer, on food colvents, 312 summary of experiments on snake-poison, 374 on fibrinous coagula in the heart in relation to malaria, 435 traumatic ancurism from gun

wound, 479 Femur, intracapsular fracture of the cervix of, case of, 662

Feet, sweating, tannin in, 527 Fender, Mr. Thomas, death of, 383 Fenwick, Dr. Guide to Medical Diagnosis, review,

n, Sir William, note on the Out-patient

Ferquison, fir William, note on the Out-patient Reform Committee 25.

Reform Committee 25.

Ferver-len, an allered, demed, 123.

Ferver-len, an allered, demed, 123.

Ferver-len, an allered, demed, 124.

Filterials, perfluenchial, Dr. A. Cark on, 625.

Filterials, perfluenchial, Dr. A. Cark on, 625.

Filterials, perfluenchial, Dr. A. Cark on, 625.

Filterials, filterials, perfluenchial, Dr. Cark on, 625.

Filterials, filterials, perfluenchial, demonstrated, 626.

Fifth, Mr. (of Maccloshida) oblitary notice of, 64.

Fifth, Mr. (of Maccloshida) oblitary notice of, 64.

Fifth, Mr. (of Maccloshida) oblitary notice of, 69.

Fig. (b), epillag retreation in, demonstrated, 526.

Fish, capillary circulation in, demonstrated, 505 Fitzmaurice, Mr. George Lionel, death of, 322 Fortus, expulsion of alive, within the membranes,

as dependent on sex and age, 438 Dr. Tilbury, on ringworm communicated by a horse, 380

horse, 322

Fracture, intracapsular, of the femur, case of, 202
of the nasal bones, case of, 202
of the pelvis and spine, fatal case of, 12

France, exentific relations with, Baron Liebig on

the, 458 Frace's Patent Disinfecting Apparatus, 68 French, Mr. on post-mortem contractions in cholers, 173, 628 French army, prevalence of drunkenness in, 629 "Prutiles calls," "Medicus" on, 328 Fungi, intoxication by, 311

Gaine, Mr. on the blebloride of methylene, 232 Gaine, Surgeon George Edwin, death of, 55 Galesowski, Dr. on the influence of alcoholdism of Surgeon, Professor John, on country versus town milk, 25, 42 reply to Dr. Samoun concerning chloralum, 724 Gangerese thospital; as observed during the war, The Cass Dillitorib on, 287

Gant, Mr. on occlusion of arteries after operations

Garrett, Mr. Mark Brown, death of, 271

Mr. Richard, death of, 250

Mr. Richard, death of, 250

Geo, Dr. abstract of the Gulstonian Lectures of, 215, 244, 255

Genera convention, alleged violations of, 71, 202

Mr. Guraldes on the, 252

necessity of the revisal of the, 853

necessity of the revisal of the, 553 vide War George, Dr. Robert Villiers, death of, 414 Gerard, Charles, prosecution of, 145, 253 George's (St.) Mospital, reports of cases treated

Gibbon, Dr. on isolation of small-pox patients, 616
Gibbon, Dr. on isolation of small-pox patients, 616
Gibbon, Dr. cases of sunstroke, 622
Ginaldes, M. note on the bombardment of Paris,

on the violation of the Geneva convention, 222 Olanders in the human subject, 116 Glasgow, University of, pass-jists of the, 529 Lying-in Hospital, statistics of, 22 vaccination and revaccination at, Dr. Dunlop

on, 221
Dr. Cameron on, 327
small-pos at, 355, 452
small-pos at, 355, 452
small-pos at, 355, 452
small-pos at, 355, 452
Goate, 152
G

Gowing, Mr. William Green, death of, 226 Grant, Dr. Thomas Walker, obituary notice of, Oranta, Dr. John Thomas, death of, 354
Grantham, Mr. John Thomas, death of, 354
Greenhow, Dr. note on amalgamation of Medical
schools, 53
on a case of diphtherial paralysis treated by

faradism, 550
Grieve, Dr. analysis of paper of, on small-pox, 317
Gulder, Mr. on the rationale of the use of arrenie,
317

Guérin, on Medical deputies in the Assembly, 314 Guérin, on Medical deputies in the Assembly, 3d Guinea-worm, Dr. Cooper on the origin of the, 512 Gull, Dr. address of, at the Clinical Society, 132 Gunshot wounds, wid-Wounds Guthrie, Dr. Hugh, death of, 421 Guy, Ir. on the sanitary aspects of war, 722 Guy's Hospital, reports of cases treated at, 274, 692 "Guy's Man," reminiscences of an old, 21, 5d

Hemato-crystalline of the blood, Dr. Sanderson Hiemato-crystaine of the 10004, Dr. sanderson on, 121 Hiemorrhage, secondary, from grunshot wounds, Professor Billroth on, 422, 459, 577 Haidinger, Professor, death of, 122 Haidinger, Professor, death of, 421

Hadinger, Professor, death of, 491
Hair, trophic nervous debility in relation to the,

accumulation of, in the human atomach, case
accumulation of, in the human atomach, case
Hair of, and
Hair of,

Wood's, 22

Wood's, 23

Wood's, 24

Hammond, Dr. Physics and Physiology of Spitmond of the Physics and Physiology of Spitmany of a state of the physics of the case

Hammond, Dr. Physics and Physiology of Spitmany of a state of the case of the case

Hammond of state of the case of the case of the case

Hammond of the case o

same-merra variuira disease of the, Dr.

Brous temour of the, specimen of, 221
Birinous coagula in the, in relation to
hypertrophous elongation of the, Dr. Saler on
the case of, 523
Heat new of

Henderson, Inspector-General Dr. James, obituary

Henderson, Imspector-General Dr. James, contany motice of, 253 Hennen, Dr. John, 133 Hennen, Dr. John, 135 Hernis, Fernord, strangulated, cases of, 253 reduction on masse of, specimen of, 231 inguinal (oblique), case of strangulated, 183 strangulated, in a child, case of, 254 Hewitt, Dr. Graily, address of, at the Obstetrice

Hewitt, Dr. Grauly, address of, at the Obsettrical Society, Lap prognancy, Superior and Conference of the Market State of the Conference o

Society, MRI statistics of mortality after obstetric opera-

Hildige, Mr. James Graham, obituary notice of,

Hilly Mr. Berkeley, statistics of syphilis at the Lock Hospital in 1899, 40 on the statistical results of the Contagious Discases Acts, 160 on the transport of the sick and wounded in

Hill, Mr. John D. on neglected traumatic stricture,

oase of resection of the clbow, 527 Mr. William, death of, 222 Dr. (Poor-law Medical Inspector) death of, 225 Hip-joint disease, scute, Dr. Meadows on a case of, 702

Hodges, Dr. Edward, death of, 414 Hodgeth, Pr. Edward, death of, 414 Hodgeth, 1se despense on, 162 Hoggen, Jeseph, Sir Win, Fernyason on, 198 Hoggen peetrum analysis, 172 and the treatment of the semi-lenar ini-ion, 20, 500 Dr. Marchiston on the influence of maternal properties of the influence of maternal

imagination on the feetus, 417 on convulsions of children.

on convulsions of children, 555 on marriage in relation to plathists, 673 on treatment of hosping-cough, 425 on the position of women, 456 on the position of women, 456 Holland, the small-pox epidemic in, vide Small-

pox Holme, Mr. James John, death of, 383

Holme, Mr. James John, doath of, 383
Holme, Mr. John non-payment on a witness, 306
Holsi, Professor Frederick, of Christiania, death
Holsi, Professor Frederick, of Christiania, death
Honoscopaths, susceptibility of the, 288
insurance of lives of, 491
insurance of lives of

367 668 (consumption, at Brompton, report of cases treated at the, 253 Dreadhought, "Scamen's, report of cases treated at the, Ellishurgh (Royal Infirmary), reports of cases treated at the, 11, 125, 273, 303, 425, 579, 116 Glasgow Lynn-in, statistics of the, 25

Giasgow Lying-in, statistics of the, 28 Guy's, reports of cases treated at, 274, 802 King's College, reports of cases treated at, 69, 218, 451, 650 Levels (General Infirmary) report of cases treated at the, 41

Lock, report of cases treated at the, 40 London, reports of cases treated at the, 540, 560, 214 Lying-in (Rotunda), Dublin, statistics of the,

Mater Misericordice (Dublin), report of case treated at the, 202
Melbourne, account of the, 345
Middlesex, reports of cases treated at the, 11.

56, 362, 661 Radeliffe (Infirmary), Oxford, reports of cases

treated at the, 41, 246
Royal Free, reports of cases treated at, 385, St. Bartholomew's, report of cases treated at,

Chatham, report of cases treated at, 246 Chatham, report of cases treated at, 242

R. Ricegre's, report of cases treated at, 222

R. Thormon's, construction trade at, 12, 222

St. Thormon's, construction arrangements of, 4M. Charry on the, 122

St. Thormon's, construction arrangements of the construction o

the, 97, 307, 384, 600, 214
Westminster, report of cases treated at the

Versiansect, repair to these streeted in the term for Women, in Soho, report of cases treated.

Inopidals, Dr. Arland on the requiries of, 38

Inopidals, Dr. Arland on the requiries of, 48

Inopidals, Dr. Arland on the requiries of, 48

Inopidals, Dr. Arland on the requiries of, 48

M. Aubert on the, 31

Inopidals, Mr. Arland on the requiries of, 47

Inopidals, Dr. Arland on the requirement of the state of the repair o

Hutchinson, Mr. on xanthelasma palpebrarum,

on orchitis from prostatic irritation, 410, 4

on orchitis from prostatic irritation, 410, 417 on cases of communication of vaccination by sphilis, 484, 525, 541, 553 Huxley, Professor, after-dinner speech of, at the Hoyal Academy, 517 on Medical education, 592 Hyold bursa, hygroma of the, Dr. Mackenzie on a case of, 158

Hydrophobia, Mr. Drew's cases of, 522 Hypophosphites, therapeutical properties of the, 162 Hypospadias, case mistaken for, 14

Blegitimacy in Scotland, explanation of the pre-valence of , 252, 486, 526 the, 288 India, operations of the "Contageous Discusses Acta" in, Surgeon De Renry on, 252 and "on Surgeon De Renry on, 252 murder by protoning in, Dr. Chevers on, 153 policy of garrisoning, with European troops, "X.X" on the, 255 mortality of troops in, 385, 621 Managed and process of, Dr. Sanderson on the,

Surgical, Mr. F. Jordan on the treatment of.

Infants, great destruction of, Dr. Parker on the

sall mortality of, in Victoria, 641

anity, clinical instruction in, Dr. Sibbald on, 72 plea of, Sir James Monerieff on the, 218 in India, Dr. Chevers on, 308 employment of hydrate of chloral in, Dr. Mercer on, 450

4 Lunacy Instruments, Surgical, circular of College of Surgeons consecuting a museum of, each Intestinal obstruction from impacted freces, care

Intestinal obstruction from impacted frees, ca.e of, 41 relieved by mechanical treatment, case of, 250 relieved by mechanical treatment, case of, 250 Mr. Hosbiens, Br. Lancachire's case of, 250 Mr. Hosbiens, Lincolny for, 252 Iron, effects of freat on, 122 Iron, 252 Relieved by State, as a decoderiser, 250 Iron, 252 Relieved, St. Mary, senitary state of, 357, 510, 707, 279, 279, 2010 to a small-post Hospital at, 250

Jackson, Dr. Hughlings, on the diagnosis of apoplexy and drunkenness, 200 on the use of the ophthalmoscope in cerebral

on the use of the ophthalmoscope in cerebral disease, §22. on a case of hemiplegia, with less of speech, 702 Dr. Thomas, death of, 421 Mr. Vincent, cases of stricture, 242 Mr. William, on the superanuation of Poor-law Medical Officers, 22

146
hs-on, Mr. Metcalfe, on hedonism, 202
Johnston, Dr. statistical report on the Rotunda
Lying-in Hospital, 132
Dr. James Wingate, services of, 231
nts, guabot wounds of the, Professor Stro-

Jones, Dr. Handfield, on a case of neurotic disorder, with large exerction of urine, 12

on excition of urea in chorea, 202 on a case of brouchial catarrh, with albumi-

on a case of brouctina custates, and a case of brouctina custates, and a first Mr. T. Rymer, Organisation of the Animal Mississen, notice, 252.

Mr. T. Rymer, Disparation of the Animal Mr. T. Annea, obituary notice of, 252.

Dr. James, obituary notice of, 252.

Jordan, Mr. Furneaux, Treatment of Surgical Inflammations, review, 408.

Keith, Dr. William, obituary notice of, 176 Dr. Thomas, presentation of a testimon

Kerr, Dr. of Northampton, reminiscence of, 250 107. James, case of eccentric epilepsy, 2621 107. James, case of eccentric epilepsy, 2621 107. James, case of eccentric epilepsy, 2621 108. James, 2018 (1988) (1

of, 676 Kraus, Dr. on the functions of the prostate, 170

on the formation and passage of urinary calculi, 622 Kymographs, Dr. Sanderson on, 211

Labia, elephantiasis of the, case of, 3Z Labio-glosso-laryageal retrogressive paralysis, Dr. Silver on, 462 Lancashire, Dr. on a case of obstruction of the bowels, 313 Lankester, Dr. report of, as coroner for Middle-

on the extension of small-pox, 608

Lardaceous disease, specimens of, 321 report of Pathological Society's committee on, 647

Larynx, growths from the, in a dog, specimen of, 250 Lateau, Louise, Dr. Hartsen's note on the case of.

555
tissue-changes in relation to disgnosis and
thera-yeutics, 356, 389
on cases of poorisats with diminished cutanoous sensibility, 255
instruction by, in mental diseases, Dr. DuckLearmooth, Mr. John Livingstone, death of, 354
Leck Mr. Washington, death of, 354
Leck General Infirmary, report of cases treated
at the, 41

at the, 41
Legitimacy, Mr. Weightman on the law of, 506
Le Pileur, M. Wonders of the Human Body, re-

Le Pileur, M. wonders of the abbundary view, 171
Leprosy, Dr. Beauperthuy's treatment of, Dr.
Bakewell on, 283, 439
mercunial transferrent of, Dr. Porter Smith on mercurial terminate of 120 Porter Smith on the fig. 3.

Letch the prevention of salitration, 688.

Letch the province of salitration, on the quality of water-supply in relation to sanitary conditions, 628.

Leucocytes, Ir. Sanderson on the study of, 1

Dr. Williams on the history and denomination of, 62

Lebig, Baron, on scientific relations with France,

Liebles, Barois, on scientific relations with a rames, and the state of most of, 212 Liebevich, Dr., appointment of, at St. Thomas's Hoppital, 261 262 Liebevich, Dr., appointment of, at St. Thomas's Hoppital, 262 262 Liebevich, Mr. deskib of, 262 Liebevich, 263 Liebevich, 263

don Medical Society, reports of meetings of the, 116, 203, 294, 353, 413, 586, 548 Dr. Cholmely 5 oration before the, 521, 546

Corrigendum, 584
London University, Messrs. Power and Foster or improvements in physiological examinations improvem at the, 100

Loney, Surpeon Edward, obitiuary notice of, 383 Longer, Pourgeon Edward, obitiuary notice of, 383 Longer, Professor, death of, 233 injuries in war, 450 Lortet, Professor, experiment of, on the move-ments of eucocytes, 2 Lowain Catholic University, calendar of the, 410 Loven, Professor, experiment of, on the vaso-

John Manager Composition of, on the visco-motor nerve, (ES.
Low, 17. James Alexander, death of, 42.
Low, 17. James Alexander, death of, 42.
Low, 18. James Alexander, death of, 42.
Low, 18. Low

Lymphadenomatous tumour, case of, 207 Lyons, Hospitals of, 315

McArthur, Staff-Surgeon Alexander, obituary notice of, 146 McCraith, Surgeon Archibald, death of, 354 McCraith, Mr. on a new operation for entropium,

McConnell, Dr. obtuary notice of, 552
MacCornac, Dr. Notes and Recollections of an
Ambulance Supress, review, 520
MacCornac, Dr. Notes and Recollections of an
Ambulance Supress, review, 520
MacLinnos, Inspector-General Dr. Campbell,
death of, 255
MacLinnos, Inspector-General Dr. Campbell,
death of, 255
MacLinchian, Dr. Charles Pellowes, death of, 255
MacJinchian, Dr. Charles Colleges, death of, 255
MacJinchian, Dr. Charles Colleges
MacJinchian, Dr. Charles
MacJinchian, Dr

Macnamara, Mr. C. letter to Mr. Simon on the cholera, 543 Madras, effects of residence in, on health of soldiera, 885 Malaria, Dr. Odham's, What is? review, 79, 319 Dr. Bakewell on fevers from, 244 action of quinine on, Gopaul Chunder Roy

action of quinnie on, Copau Launau and On, 23, Dr. Balewell on, 22, Brous coagula in the heart in relation to, Dr. Fayrer on, 43, Malignant new growths, pathology of, Mr. Henry Arnott on, 565, 566, 563 of, 704 Malpraxis, disgraceful action for, in the United States, 607, in conjunction with chorca, Dr. Russell

Massey, Dr. on Stenoses of the Larynx, review, 645
Massey, Dr. on the number of cicatrices after
vaccination, 228, 232
Mater Misericordiae Hospital, Dublin, notes of
cases treated at, 622

Mattress, the woven wire, 558
Maunder, Mr. clinical observations on chancre, 271
on lumbar colotomy, 213

Maunder, Mr. clinical observations on chances, 221
on lumibur contours, 123
on lumibur colorous, 123
Mazzoni, Dr. visit of, to London, 527
Mazzoni, Dr. visit of, to London, 527
Mazzoni, Dr. visit of, to London, 527
on a case of scate hip-joint disease, 122
on a case of scate hip-joint disease, 122
on desired, in mean, 117
on statistics of, in Rotterdam, Dr. Ballot on, 510
Most-Hull, Davly 5, 427
off colorous of the colorous of

Medical Esteration, resolution of the king and con. 230. College of Epyletians in Ireland on, 232. October of Epyletians in Ireland on, 232. Medical College of Epyletians in Ireland on, 232. Medical College of Epyletian in Ireland on, 230. College of Epyletian in Ireland on, 230. or, in Epyletian of Epyletians in Ireland on, 230. or, in Epyletians, 45, 23, 141, 223, 235, 277, 190, 253. Medical Applications of the College of Epyletians, 45, 23, 141, 223, 235, 277, 190, 253. Medical College of Epyletians on, 230. College of Epyletians on, 230. College of Epyletians on, 230. College of Epyletians of

Melbourne Hospital and its management, 343 Meldola, Mr. Raphael, death of, from chloral, 33 Mercury, alleged abuse of, by army Medical officers, Dr. Bennett on the, 102, 142 prevention of salivation by, Professor Sig-

Meryon, Dr. on a rational system of therapeutics, 173

Metachloral, Dr. Richardson on, 211

Meta-bloral, Pr. Richardson on, 311
Metallic trikling explained, 202
Meteorology of 18/0, 22
Meteorology of 18/0, 22
Meteorology of 18/0, 22
Meteorology of 18/0, 22
Metallic control of the control of t

Millingen, Mr. on accumulation of serum in the tympanum, 314 Mills, Dr. Thomas, death of, 560 Minssen, Mr. Frederick John, death of, 253 Mitchell, Dr. Weir, on the growth of nails in

Mitchell, Dr. Weir, on the grown or name paralysis, 628 Mitral disease of the heart, Dr. Powell on, 305 Mirarl, Mr. Genesia of Species, review, 424 Modin, Dr. Tony, execution of, 523 Modine, Dr. Tony, execution of, 523 Modine, Alexander, on a nerrous Birds, 523 Morre, Dr. Cr. E. on defective anitary condition

Moore, Jr. C. F. on acterity saminary countries, Moores, John r. remnisseence of, by "An Old Uny" Man," 22 Grand of the Control of Control on softening of the brain in syphilis, 712

Mundy, Baron, reports on the Ambulance de l'Ancien Corps Legislatif, 467 Murchison, Mr. Simon, of Bicester, death of, 679 Murray, Dr. Wm. Cure of Ancurism by Pressure,

Murray, 1st. Wm. Cure of Ancurism by Pressure, notice, 616

Muscle, the supra-costalis, Mr. Perrin on an aberrant form of, 620

Muscles, anomalies in, Dr. M'Allster on the, 160

localised electrisation of, M. Duchenne on

the. 280

the 223 geometrical classification of, Professor Haughton on the 252 Museular force, Professor Haughton on the co-Museular force, Professor Haughton on the co-Musepatt, Dr. Sheridan, obituary notice of, 123 Mytilta, Dr. Tibbits on a case of, 233 Myelita, Dr. Tibbits on a case of, 233 Myelita, Dr. Telbits on a case of, 234 Myel

Myelste, Mylne, M Myxomatous tumour over the parotid, case of, 97

Nagel, Dr. on strychnia in amaurosis, 76, 431
Nals, deranged growth of, after illness, 229
growth of, as a pregnosis in paradysis, Dr.
Nasal bones, fracture of, esse of, 621
Nature, principle of least action in, Professor
Nary, Medical Department of the successful candidates for the, 233
position of Assistant-Surgeon in the, Dr.
statistical abstract of the, for 1890-70, 826
Nature, Mr. Henry Leopold, death of, 232
Nature, Mr. Henry Leopold,

Nerves, vascular, Dr. Sanderson's demoof the, exi Nervous atmosphere, Dr. Richardson's theory of

a, 667
Nerrous system, diseases of the, Dr. Laycock on clinical observation of, 31, 91, 151
influence of the, on diseases of organs and tissues, Dr. Laycock on the, 241, 301, 505, 555

degeneration of the, application of the Wal-lerian law to cases of .21 the vas-monto, Ir. Sanderson on the .633 the vas-monto, Ir. Sanderson on the .633 the .23 the

the, 618 of the fifth nerve, with ansesthesia, Dr. Anstie's

case of, 702 Negritis of the brachial plexus, Dr. Althaus on, Niemeyer, Professor Felix von, a necrology, 642 Nightingsle Fund, report on the, 667 Nitrogen, elimination of, Dr. Parkes on the, 348,

Nitrogeon, emman-311 Niabet, Dr. Matthew, death of, 118 Norris, Dr. experiments on the red corpuscles of Nortis, Dr. experim

Norton, Mr. A. T. Affections of the Throat and Larynx, review, &

the, 412
Ophthalmoscope, employment of, in cer
disease, Dr. Jackson on the, 627
Opium-eating in India, Dr. Chevers on, 181

Orbitts, wid Testis
Osborn, Dr. on perchloride of iron as a test for
earbolic scisl. 222
on the abuse of vaccination, 503

Osteocephaloms of the fibula, case of, 424 Otorrhoa, treatment of, by spirit of wine Otorrhois, treatment of, by spirit of wine, 2020
Out-patients Reform Committee, note of Sir W.
Fergusson concerning the, 52
observations on the report of the ASA
discussion on the report of the Committee
on, 422
Dr. Meadows on the expenses of the inquiry

on, 417, 496
Ovarian cyst, spontaneous rupture of an, specimen

934 entesis of an, for suspected disease, 945

Ovariotomy, further Hospital experience of, Mr. Wells on, 180, 326 account of an autopey after, 566 Ozonie ether, with iodine, for syphilis, 569 as a disinfectant, 525.

Packard, Dr. Handbook of Operative Surgery, Packman, Assistant-Surgeon John, death of, 118
Paget, Mr. on the removal of tumours from bones,

Pain, action of, on digestion and nutrition, Dr. Mantegazza on, 2-7 Palate, paralysis of the soft, Dr. Broadbent on

Palate, paralysis of the soft, and access of, 222
perforating there of the soft, eve of, 611
Paralysis, growth of nails as a prognous in, Dr.
Mitchell on the, 628 diphtherial, discu

agitans, case of, 12
autopsy in a case of, 28
local, Dr. Russell'a cases of, 212
lablo-glosso-laryngeal, Dr. Silver on retro gressive, 464 disthetic, Dr. Layeock on, 22

an unusual form of, 52 of the soft palate, Dr. Broadbeat on cases of,

262 Paraplegia, cases of, 29 Paraplegia, cases of, 221
Paris, mortality of, during the siege, 47, 297
great mortality of the wounded in, 25
Dr. Cormack on the state of, during the siege,

on the second siege of, 458
bombardment of, M. Giraldes on the, 203

bombardment of, M. Giraides of the, 222 registration returns of, 255 the Medical Profession during the siege of, 24 under the Commune of, 402, 525, 583, 683, 68 disasters from the conflagration in, 627 "An English Medical Student" on the

Parisiana, by Surgeon Macdowall, review, 393, 465
Parisiana, question of the insanity of the NE
Parket, Dr. abstracts of Cromian Lectures of, on
the elimination of nitrogen, 348, 371
American plaguirism of the work of, repudiated, 325

All of the Section 18, 285, 371

Agents of the Section 18, 371

Agent

Parliamentary intelligence, 196, 228, 258, 315, 371, 403, 499, 529, 514, 619, 637, 669, 688, 720

Parofid, tumours of the, cases of, 57 Partridge, Surgeon, on a rare form of strabismus,

on a new wire speculum, 274 on the closure of a fissure in the cyclid, 600 Pathology, analytical, Dr. Moxon's lectures on, 61,

Pathological Society, notices of meetings of the, <u>64, 143, 204, 293, 395,</u> 380, 449, 468, 554, 555, <u>647, 637</u> annual meeting of the, 19 Payen, Professor, obituary notice of, 207 Peacocke, Surgeon Dr. George, obituary notice of,

Pelvis and spine, fracture of, fatal case of, 12
Pemphigus, contracted from the teats of a cow,
Dr. Ballard on a case of, 2
note of "W." concerning the case, \$2
Pennsylvania Hospital, damaging of, by the
women's rights quastion, \$25

Pepsine, local use of, Dr. Purdon on the, 656 Peribronchial fibrosis, Dr. A. Clark on, 648 Peritoneum, cysts of the, containing air, 144 Peritonitis, "spurious," case of, 42
Perityphlitis, treatment of, Dr. A. Clark on the,

Peroxide of nitrogen, therapeutical properties of,

Perrin, Mr. on an aberrant form of the supra-costalls of Wood, 60)
Pertnasis, Dr. Hogg on the treatment of, 425
Pharmacopoid nonsendative.

Pettinsis, Dr. Hogg on the treatment of, 425
Paramacopoist nonenclature, proposed all Paramacopoist in the sin, Professor AttRied on, 429
Phelan, Dr. obluvary notice of, 620
Phosphorescence, human, instance of, 413
Phosphorescence, but the description of the size of the marriage in relation to, Dr. Hogg on, 673 Central America as a residence for the sub-

Central America as a residence for the sub-jects of, Dr. Wymen on, 223.

Physicians, Royal College of, pass-lists of the, and Sarpose, Royal College of, Edizburgh, pass-lists of the, 442, 252.

Physics, review of new works on, 21 P

Measure Power and Foster on improvements

Mess. Power, and Forter on improvements for examination in 1, 123

Figure 1, 123

Figure 2, 124

by phosphorus, turpentine as an antidote in, 325 by snake-lite, eide Snake by strychnia, chloroform as an antidote in, 281

by strychnia, chloroform as an antidote in, 221 by wattle-gum, case of, 323 by pre-berries, case of, 324 corrigenda, 324 Pollard, Dr. John Henry, death of, 529 Polynes, nase-pharyageal, treated by electrolysis, Mr. Copper Foreter's ones of, 412 Poor-law Medical Service, discussion concerning the, 323

the, 250
superanuation in the, Mr. Jackson on, 25
in Ireland, Mr. Corrance's queries as to the, 612
in Scotland, Dr. Regers on the, 24
Dispensaries in London, rules for the, 524
Poor-law Medical officers as assistant officers of

health, 99, 120
Medical Association of, meeting of the, 525
deputation of the, concerning vaccination,

of Ireland, Dr. Maunwell's note on the 592
"Pott's fracture," query of "Exile" concerning,

Powell, Dr. Dougtas, on funde-mitral disease of the heast, 225.

On the forms of phthiele, 255.

On the forms of phthiele, 255.

Prepr. Lewis, death of, 412.

Prepr. Lewis, death of, 412 ons, civil and military, mortality of, errors of

Captain du Cane respecting, 653 College, 220 r. Mr. Light Science for Leisure Hours, Proctor, Mr.

Proctor, Mr. Light Science for Leisure Hours, notice, 623.

Prostate, nurctions of the, Dr. Kruus on the, 170.

Prostate unchas, orbitis from irritation of the, Mr. Hutchison on, 110, 412.

Prostate unchas, orbitis from irritation of the, Theorem Control of the Control of the

Purprent Convances, of 125 proceeded by a phasin, Dr. Druitt on a case of, 24 preceded by a phasin, Dr. Druitt on a case of, 24 fever, prevention of, by external examination, Professor Halbertsma on, 622 Pulse, effects of change of climate on the, Surgeon Rattray on the, 615

Pupil, an articled, the "duties" of an, 28 Purdon, Dr. on the local use of pepsine, 658 Purpurie fever, malignant case of, 631 Pysemia, Professor Billruth on cases of, 347 specimens from cases of, 144 discussion on at the Paris Academy, 200

Pylorus, cancer of, with secondary dep of, 362

Quain, Dr. address of, to the Pathological Society,

Queen's University, Ireland, degrees conferred by the, 719

Radelife Infirmary, Oxford, reports of cases
Railway exclients, trial infastrating responsibility
as to, 222
Railway exclients, trial intertaing responsibility
as to, 222
Railway exclients, trial
Railway exclients of the case of, 222
Republic, capillary circulation in, demonstration
Republic, capillary circulation in, demonstration
Republic, capillary circulation in, demonstration
Republic, application of the control of the control

Respiration, effects of the change of climate on Revaccination, successful, Dr. Druitt on what 18,

255
as applied to children, 272
question of employing the lymph of, 272, 292
Dr. Trayer on the, 322
question of payments for, 272
question of payments for, 272
waste of lymph in, Dr. Muller on the, 342
results of, in Ghaspow, 231

Dr. Crisp on, 204, 321 vide Vaccination

ride Vaccination
Rhomantion, ablacute, followed by pericarditis,
case of, 41
cavete, in the tropice, Dr. Sullivan on, 452
acete, in the tropice, Dr. Sullivan on, 452
Richard Control of the Control of the Control
Richardson, Dr. on dangerous doses of chloral, 199
on death from cold and drowning, 21, 181
on an apparatus for transfusion, 553
on or organic bromatics and metachloral, 419
on on organic bromatics and metachloral, 419

oti an apparatus rot described and metachloral, 413
theory of a nervous atmosphere, 52
Richmond, Mr. Robert Knew-stub, death of, 125
Dr. A. F. on carbolic acid in phthials, 522
Rickets, clinical observations on, by Dr. Ritchie, 0
Ringworm communicated by a horse, Dr. Fox on

a case of, 280 chie, Dr. clinical ob

a rase of , 232; itchie, Dr. clinical observations on rickets, 2 oberts, Dr. experiments of, on the blood cor-puscles, 63 ogers, Dr. Joseph, on the Scotch Poor-law Medical Service, 21 Dr. James, Present State of Therapeutics,

review, 140
Dr. G. Goddard, reminiscences of Dr. Kerr, Rollet, Professor, experiment on the blood corpus-

House, Professor, experiment on the blood corpus-cles, Consequence of the Consequence of the Consequence Ross, Dr. A. on a chloroform bottle, <u>417</u> Rossignol, Professor, obituary notice of, <u>200</u> Rotterdam, epidemics in, Dr. Ballot on the, <u>510</u>

ride Small-pox
r, Gopaul Chunder, on quinine in malaria, 245
r, Gopaul Chunder, on quinine in malaria, 245
Free Hospital, reports of cases treated at the, Russell, Dr. James, on epilepsy with chorea, 390.

corrigendum, 572
Rutherford, Dr. Edward, death of, 56
Ryan, Dr. Michael, Mr. J. F. Clarke's reminiscences of, 628

Salivary calculus, case of, 7.18 signund on the, 102 Salivation, prevention of, Dr. Signund on the, 102 Salivation, prevention of, Dr. Signund on the, 102 Salivation, prevention of the control of practical physiclogy and control of the course of practical physiology and control of the course of practical physiology and control of the course of practical physiology.

analysis of the content of the state of the content of the processes of inflammation, 633, 662 Sanitary Commission, analysis of the report of the, 285, 317, 302 report of the, in relation to Medical Officers of Health, Dr. Drutt on the,

remarks on the report of the, 573
report of, concerning, 573
condition, defective, in relation to disease,
Dr. Moore on the, 252,
handbulk, Mr. Chamber's note on, 537
Sankey, Dr. Francis Fermoult, death of, 256
San Remo, an experience of the elimate of, 132

Sansom, Dr. on the tests for carbolic ac'd, 2 on the antiseptic treatment of wounds, 481 note of Professor Gampee on, 724 Sarcophytes, Dr. C. J. B. Williams on the em-

Sacrophytes, Jir. C. J. B. Williams on the employment of the term, G. Sacrophytes, Jir. C. J. B. Williams on the employment of the term, G. Satatisino et al., Blotterlam, Dr. Ballot on, 510. Satatisino et al., Blotterlam, Dr. Ballot on, 510. Sacrophytes, Dr. Sanderson's, for demonstrating activation correction, 521. Sacrophytes, Dr. Sanderson's, for demonstrating caterial movements, 211. Published the Computer of the Computer

complicating traumatic injuries, M. Verneuil

on, 134 Scotland, registration returns of, 238, 474, 590, illegitimacy in, explanation of the prevalence

of, 437

Dr. Whitelaw on, 426

Dr. Campbell on, 522

Sea, exploration of the depths of the, Dr. Car-Sea, exploration of the depths of the, Dr. Car-penter on the, 319 Seaton, Dr. on the lesons to be derived from epidemics of small-pox, 487 Sedan, sanitary disposal of bodies after the battle

Sedan, sanitary supposes or to-accessive of, 443, of, 443, of, 443, of, 443, of, 443, of, 443, of, 444, of, 444

difficulties relating to, in Dublin, 616, 626
fewill, Mr. note on purling dentists, 226
fewill, Mr. note on purling dentists, 226
fewill, Mr. note on purling dentists, 226
fewill, Mr. Derroseor Fayrer on, 5
fewy, Mr. Bernard John, death of, 166
fewy, Mr. Green, 200
fewy, Mr. Green, 200
fewy, Mr. Green, 200
fewy, Mr. Green, 200
fewy, Mr. Derverstrum, viride in rheumatism, 200
fewy, Mr. or construm, viride in rheumatism, 200
fewy, Mr. or construction of the presentation of the prese

Silver, Dr. on veratrum viride in rhenmatism, 124 on functional regurgitant bruit, 361 on retrogressive labio-glosso-pharyngeal para-

on refrogressive indo-grosso-pary ngent para-lysis, 461 case of hemiplegia, 492 Simpson, James Young, Sir Win. Fergusson on, 199 Singultus, chloral in, 561

Singullus, chloral in, 251.

Sith, diseases of the, phosphorus as a remedy in, Dr. Broadbent en, 252.

Slin-cleaner, Humby's, 252.

Slin-cleaner, Humby's, 252.

Slona, Deputy-Inspector Dr. John, death of, 252.

Slona, Deputy-Inspector Dr. John, death of, 252.

Slona, Dr. Session on the, 252.

Landon, 197.

Slona, 19

684, 665, 715 returns of cases of, by the Association of Health Officers, 228, 238, 316, 335, 37 404, 437, 461, 493, 524, 544, 562, 611, 614, 67 722

cases of, in the London Hospital, 00, 104, 139
means adopted for the arrest of, 52
experience of the Hampstead Hospital for, 245
Dr. Grieve's report on the, 312
Hospital at Hometon for, 333
Hospital at Higheste, report for 1870, 120
mortality from, in London, Mr. C. A. Fox ca

the, 155 ortality returns of, for England, in 187t, 519

mortality returns of, for England, m 1941, 519 in Glasgow, 285, 482 Dr. Dunlop on, 291 in Liverpool, 113, 293, 401 epidemic of, at Staines, Mr. Prince on an, 202 great loss of life from, in the Punjaub, 415 epidemic of, in Holland, 231, 510, 543, 581, 583,

at Rotterdam, Dr. Ballot on the, 510 extension of, Dr. Lankester on the, 526 precautions to be taken in, Mr. Hutchings on

mortality from, according to sex and age, Mr. C. A. Fox on the, 538 . isolation of patients in, Dr. Gibbon on the, 616

Small-pox in utero, supposed case of, 611
Drs. Sedgwick and Elliot on, 613
localising the cruption of, 133
treatment of, by belladonna, 42

arrest of, by quinine, 532
prevention of pitting in, Dr. Arding on the, de Vaccination

Smith, Dr. Porter, on the mercurial treatment of leprosy, 551 on the Materia Medica of China, 654

on Chinese blistering flies, 652

Mr. Henry, observations on cutting operations for stricture, 70

for stricture, 22 Inspector-deneral Charles Irving, death of, 629 Mr. John, on superficial vaccination, 702 Mr. John, death of, 148 Mr. Joseph, death of, 286 Me-blet, failure of venous injections in, 226 success of Halford's remedy in, 229 results of Ur. Fayere's experiments with, 313,

ser Halford on the ammonia tres

Protein 346
Society, Clinical, reports of meetings of the, 175, 282, 282, 380, 497, 564, 617, 702
Dr. Gull's address at the, 137
Dr. Gull's address at the, 137

Dr. Gull's address at the, 157 Epidemiological, meeting of the, 236 London Medical, reports of meetings of the, 115, 253, 283, 333, 413, 588, 589 Dr. Cholmeley's oration at the, 521, 546,

Medico-Chirurgical, vide Medical Obstetrical, vide Obstetrical Pathological, vide Pathological for the Relief of Widows and Orphans, appeal

for the, 222 Soden, Mr. John, death of, 118 Soils, sanitary influence of, 52

Soldiers, objections to inspection of, 200 mortality of, in India, 380, 664 Sorby, Mr. on spectrum analysis of blood-stains, Spa, new bathing establishment at, 531 Spectrum analysis of the blood, Dr. Sanderson

spectrum analysis of the blood, Jo. Sanderson on the 132 June 8 ieres of, criticaled by a blood of the 152 June 152 June

Squibb, Dr. on the consumption of chloroform, and deaths from, in the United States, 657. Squire, Mr. Balmanno, on a case of elephantiasis gracorum, \$22 Mr. Companion to the Pharmacoposia, notice,

Stallard, Dr. note of, relating to Dr. Gibbon, 701,

Starvation, case of, 226
Stebbing, Mr. Essays on Darwinism, 424
Steiner, Professor, clinical report on chores, 467
Stewart, Mr. H. C. death of, 530
Dr. A. P. on the British Medical Association

corn children, interment of Mr. Lowndes on the on the, 625 Stokes, Mr. on Darwinism, 532 Stomach, accumulation of hair in the human, ca

of, M mus, Surgeon Partridge on a rare form of, 248

Stricker, Professor, warm stage of the microscope of, described, 3 Stricture, cutting operations for, Mr. IL Smith

cture, cutting operations for, Mr. H. Smith on, 70 pathology and treatment of, Mr. Teevan on the, 253 neglected traumatic, Mr. J. D. Hill on, 156 Mr. V. Jackson's cases of, 242 discussion on the treatment of impermeable,

Stromeyer, Professor, opinions of, on gunshot wounds of the joints, 140 Strychnia, chloroform as an antidote to, 222 Students, female Medical, controversy concerning,

at Edinburgh, 72 or. Mary Dodd on mixed classes of, 457 de Women

Subclavian artery, ligature of, Mr. Maunder's ca

of, 33:

Sir Wm. Pergusson's case of, 218, 453

Sir Wm. Pergusson's case of, 218, 453

Sullivan, Dr. on the yellow fever at Havana, 204
on acute rheumatism in the tropics, 432

Sulphurous acid, Herring's alcoholic solution of, Sunstroke, cases of, Dr. Gibson's, 622

or the, 85, 118, 148, 175, 414, 432, 471 529, 559, 588 for the preliminary examination, 55 for the fellowship, 619, 618 of licentiates in midwifery, 619 circular of the, concerning a museu

instruments, 82

matruments, 22 examination papers of the, 148, 416, 472, 560, 569 for the fellowship, 621 and the conjoint examinations scheme, wide Medical Examinations

minutes of meetings of the Council of the, 207, 501, 703 prosecution of Du Brange by the, 354 Surgeons, Royal College of, Edinburgh, pass-lists

Surgeons, Royal College of, Edinburgh, pass-lists of the 442 Surgeons, Royal College of, Ireland, scheme of, for Medical legislation, 45 Spirester, Dr. Discovery of the Nature of the Spiene, notice, 376

Spleen, notice, 376
Syme, James, Sir Wm. Fergusson on, 129
Mr. John, death of, 321
Symonds, Dr. John Addington, obituary notice of,

Sympathies, bodily and mental, Dr. Laycock on the, 34 Syphilis, queries respecting, 20 disputed points concerning, discussed, 519, 528, 539.

statistics of, at the Lock Hospital, for 1949, 40 paralysis of the facial nerves in, Dr. Broadbent on, 322
softening of the brain from, 712
softening of the brain from, 712
variations in the prevalence of, Inspector
General Lawson on the, 7
conveyed by vaccination, discussions on, Mr.
Hutchinson's cases of, 484, 525, 533

observations on, 541 Mr. Kesteven on, 551

future of, vaccination in relation to, 489
stitutional, iodine with ozone in, Dr. Day on, 500 iodide of potassium with osonic ether in, 596

T Tait, Mr. Lawson, on operations for vaginal fistula.

case of encephaloid cancer treated by electro-lysis, 438

Tardieu, Prof. on the physiology of hanging, 43

Tevan, Mr. cases of large calculi, 174

con the pathology and treatment of stricture,

on a case of impermeable stricture, 382
Telfer, Inspector-General J. T. obituary notice
of, 559

Temperature, animal, effects of exercise upon the, Dr. Alibatt on the, 207, 759. Dr. Gee's lectures on the, 314, 344, 368. effects of change of climate on the, Sur-geon Rattray on the, 513. vide Thermometry

seen Ratury on the 133 on the source of the control of the control

on the uncertain action of vaporous on the uncertain school of vaporous on the uncertain school of vaporous various school of vaporous various school of vaporous various vari

Tilt, Dr. Change of Life, notice, 220
Tissues, influence of the nervous system on discusses of the, Professor Layock on the, 241, 252, 258, 258
Touries, 240, 256
Touries, 250, 256
Touries, 250

Torture in India, Dr. Chevers on, 222
Torture, estimate of the mortality of large, 104
Traches, spiblitic contraction of the, specimen of, 223

stricture of, from syphilitic ulceration, case of, 34 Transfusion, apparatus for, Dr. Richardson on an, 254 Transport of the sick and wounded, Mr. Hill on,

Trayer, Dr. on intense vaccination, 378

Trayer. If you intense vaccination, 773'
Treacor, active and possive, cases of, 13
Treach, Dr. report on the health of Liverpool, 468
Trials, Medical, Langstaff. Buttertield, 22
Trails, Prollic, 227
Trails, Prollic, 237
Taberick, varieties of, and relations to inflammation, Dr. Muscon on the, 52
origin of, Dr. Powell on the, 53
change of diffused military to softened, 321
Tumour, remarkable, of the high, 533
Tumours, malignant, Mr. Henry Arnett on, 566, 59, 599

accumulation of serum in the, Dr. Millingen on, 334 Tyrrell, Mr. Walter, on the treatment of epilepsy,

U

United States, degeneracy in, Dr. Allen on, M.1 desicenting effects of the climate of, M. Desor

descenting effects of the claimate of, at. Desor University Cultiper Hospital, reports of cases treated at the \$17, 507, 504, 502, 124. Urremits, Cultiper Hospital, reports of cases treated at the \$17, 507, 504, 502, 124. Urremits, repaired and claimination of, Dr. Parkes on the, \$86, 521. Urinary calculi, role Calvilla, but calculated to the Control of the neutral feet of the Control of the C

Vaccination in 1803, Mr. Highmore's statement

on, 177
compulsory, Mr. Candlish on, 423
Dr. Bakewell on, 523
and revaccination, results of, at Liverpool, 53
in Glagow, 221
statement by the Royal College of Phy-

statement by the norms of the sistense concerning, 165 on the defective system of, in London, 105 Dr. Barnes on the, 115 in Scotland, circular of the Edinburgh Board of Supervision on, 357
Dr. Massy on the number of cicatrices after,

careless performance of, Mr. Radeliffe on the, signs of successful, Dr. Druitt on the, 235 Dr. Woodward on the new system of public,

Dr. Beaman on rules for performance of, 378 Dr. Trayer on intense, 378 Mr. Smith on Mr. Elliu's mode of, 702 in relation to the present epidemic, Dr. Seaton

on, 447 employment of pure lymph in, Dr. Osborn on the 503

the, 553
with glycerined lymph, Mr. Müller on, 556
resolution of the Poor-law Medical Officers'
Association concerning districts for, 555.718
in relation to syphilis, esde Syphilis
animal, Dr. Vintras on the advantages of, 520
wide Revaccination eride Revaccination
cination Acta, alleged difficulty of enforcing
the, 110
reports of the Committee on the, 635, 645

prosecutions under the, 113, 726
Mr. Ebsworth's action for fees under the, 224
a legal point as to the, decided, 312

Veins, injection of ammonia mio, pr. reaso on the, did Professors Payrer and Halford on the, 313, 346, 374 Venereal affections, variation in the prevalence of, Venereal affections, variation in the prevalence of, Inspector-General Lawson on the, Z. Veratrum viride in rheumatism, Dr. Silver on, 124 Verneuil, M. on scorbutis complicating traumatic injuries, 525 Vienna, statistics of the Profession in, 385 Vintras, Dr. Advantages of Animal Vaccination,

Vinitras, Dr. Advantages of Animal vaccination, notice, 220
Visits, "friendly," question of charging for, 367
Vision, defects of, influence of alcoholism in producing, 522
Vivisections, Dr. Sanderson on the rules for, 212
Volunteer and Army Medical Services, ride Army
Varietium, deposits, name of the productions of the control of the

niting, chronic, case of, 127
in pregnancy, discussion on, 556 w

Wahltuch, Dr. on a successful case of broncho-cele, 25 Wall-papers, are alreal, Dr. Dakeel on, 274
Waller, Augustus, law of direction of the vir
Waller, Augustus, law of direction of the vir
Waller, Augustus, law of direction of the vir
War, aid to the sick and wounded in, Colonia
Iransport of the sick and wounded in, Mr.
classification of injuries, etc., in time of, Proflower Longmore on the, 421
Dr. Thudschum, clinical experience of the, 111
and 125
400, 272

460, 579
Prof. Pirogoff on the wounded after the, 49
treatment of the wounded of the, at Berlin,

341 Sitary asp

revarances of the wounded of the, at Berlin, and a passed of, Dr. 600 no the, 222. Forference fullcoth's letters from the seal of, role billion of the control of the contr

Wattle-guin poison, death from, case of, 353 Waylen, Staff Assistant-Surgeon Frederick, death

of, 237
Wells, Mr. Spencer, further Hospital experience of ovariotomy, 186, 337

Vaccine lymph, waste of, in revaccination, Dr. Moller on the 3st.
Vaccinis in negroce, Dr. Bakewell on, 22.
Vaccinis in negroce, Dr. Bakewell on, 23.
Vaginismus, case of, 338
Vaginis flatula, Mr. Tait on operations for, 332
Various flatula, Mr. Tait on operations for, 332
Whitelaw, Dr. on illestimusy in Southard, 432
Whitelaw, Dr. on Charler Tomlins, death of, 100 of the Westminster Hospital, report the, 326
Whidborne, Mr. on chloral in puerperal convulsions, 524
Whitelaw, Dr. on illegritimacy in Scotland, 492
Whitelaw, Dr. on illegritimacy in Scotland, 492
Whitfield, Surgeon Charles Tomlins, death of,

Whitlow, caries and amputation consequent on, Whittow, caree and ampiration consequence one, case of, 202
Williams, Dr. C. J. B. on leucocytes or sarcophytes, 52
Dr. C. T. on the duration of phthisis, 53
Dr. David, obituary notice of, 522
Wills, evidence concerning, the American law on,

Wiltshire, Dr. on tetanus after abortion. Wiltshire, Dr. on tetamus after abortion, [22]
Wines, comparative consumption of French and
Spanish, 327
Witnesses, Medical, Mr. Holmes's note on non-

payment of, 358 owiez, Count Cyprian, M.D. obituary notice

Wollowier, Count Cypram, as. J. Ostaway, School, 220 of, 220 Women, Hospital for, Soho-square, cases treated at the, 245 Tregress, Free Thought, Untrammelled Tregress, Ostawa Country, 200 question, other in Edinburgh, progress of the, 17, 72, 213, in Edinburgh, progress of the, 17, 72, 213,

in Edinburgh, progress of the, Li his alteration of the control of

D tyte on, 218
gunshot, comparison of, as produced by the
needle gun and the chassepot, Dr. Ewich
on the, 167, 267
treatment of, Professor Billroth on, vide
Billroth conservative Surgery in, Professor Hey-felder on, 431 as observed after Sedan, M. Desguin on,

ses resulting from, Professor Billdiseases resulting from, Professor Bill-roth on the, 202 of the joints, Professor Stromeyer on the treatment of, 140 Professor Heyfelder on excision of joints after, 628 ocerbutis complicating, M. Verneuil on,

vide War wide War Wright, Mr. Edward Seymour, death of, 146 Wönderlich, Professor, Medical Thermometry, review, 640 Wyane, Dr. on Central America for consumptives, 379

X Xanthelasma palpebrarum, Mr. Hutchinson on the significance of, 372

Yellow fever at Havana, Dr. Sullivan on the, 304 prevalence of, in Central America, 362 epidemic at Buenos Ayres, 575, 561 Yewberries, poisoning by, case of, 389 York County Hospital, report of cases treated at the, 661

LIST OF ILLUSTRATIONS. 1. The "Putty Cells" for examining Loucocytes,

1. The "Patty Cells" for examining Leucocytes, 2, Mc. in Churcepts for man Blood-eds. 2, 25. Professor Strickers, Warm Stage for the Microscope, 5, 23. 4. Amethod Leucopt feet, warm Stage for the Microscope, 5, 23. 4. Amethod Leucopt feet, produced the Church of the C

Apparatus, 213
17. Dr. Sanderson's Lever Kymograph, 214
18. Mr. Gaine's Bottle for Chloroform Administration, 232

tion, 232
10. Surgeon Partirdge's New Wire Speculum, 221
20. M. Marey's Sphygmograph, 232
11. Dr. Sanderson's Modifications of Marcy's Sphygmograph, 322
22. Dr. Sanderson's Demonstration of Arterial Movements by the Schema, 331
23. Mr. Lawson Tait's Needles for Vaginal Fistula,

23. Mr. Lawon Tui's Needles for Vaginal Fistals,
24. Diagram of Positions of Serum in the Tyrmnaum, 354.
25. Apparatus for Recording Asterial Movements
26. Apparatus for Showing Loss of Time in Asterial Transmission, 425 for Demonstrating
26. Dr. Cator's Fish-drowsh, 502.
27. Translate of Asterial Movements, 422.
28. Dr. Cator's Fish-drowsh, 502.
29. Arnold's Surpical Her. 456
20. Arnold's Surpical Her. 456
20. Diagnosis of Malignant Growths from Scrapfing, 505, 601.
20. Hubstration of the Guines-worm,
2017.

617
38. Remarkable Tumour of the Thigh, 621
34. Nervous System of the Heart in the Rabbit, 623
35. Relations of Nerves and Muscles in the Neck of the Rabbit, 623
36. Microscopical Characters of Carcinoma, 626

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